



# Data Navigation System™

## Admin & User Documentation

November 7, 2023

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# Data Navigation System™

Data Navigation System™ helps Data and Analytics teams significantly reduce the time and effort needed to answer business questions with data.

Data Navigation System™ is an all-in-one data management solution that helps you discover, prepare, query and visualize data quickly and with less effort.

## Glossary of Terms

This section describes, at a high level, the various terms used throughout the Promethium product.

### Datamap

A Datamap is the term for a query created within Promethium. It consists of the dataset, SQL, metadata and operations reporting.

As you build a Datamap, the SQL will be auto-generated for you using our no-code flows, with the option to edit the SQL code directly.

### Data Explorer

Data Explorer is your base of operations for exploring and managing your data sources and the data within those sources.

The default view is a table which can be filtered by a wide range of modifiers such as Domains, Source, Type (Table, View, Datamap), Tag, Reasoner Score, Recency etc. In addition to these filter modifiers, you can also search directly via our advanced free text search.

### Answers

Promethium is designed to help you answer business questions with data. Our Answers feature is where you will leverage the work of your Data Team by:

1. Creating a business related question
2. Finding or explore questions that have been previously answered

### Answer Builder

You can leverage the Reasoner to build on existing data sets or “Request an Answer” to raise a new question and assign it to a member of your team for collaboration. When you are happy with the output of your Answer you can publish it, along with any comments you have, for consumption by your peers.

## Answer Explorer

Explore available answers built by collaborators and peers. If an Answer is not available, then the ability to request an Answer is an option. Typical Answers include a resultant, or “golden”, dataset and a visualization. An Answer may contain multiple visualizations and datasets.

The default view is a list of Answers which can be filtered by a wide range of modifiers such as Domain, Status, View Count, Recency etc. In addition to these filter modifiers, you can also search directly via our advanced free text search.

## Preview

Run SQL code to render results before publishing.

## Samples

When exploring data it is helpful to see it in context. Samples does just this, allowing you to ‘sample’ the first 100 rows (this is adjustable to 200, 500, and 1000) of a table, Datamap or View. These results are searchable.

To improve readability of sparse data sets, a filter to remove NULL values is available.

## Reasoner

Some of the largest barriers in knowledge extraction come about because few users are intimately familiar with their data landscape and the various database schemas therein.

The Promethium Reasoner solves this complexity by leveraging AI and ML to analyze Datamaps, tables, and views and making suggestions of what objects can be logically connected. For example, when the Reasoner is joining two tables, it can suggest rows to join upon.

The selection candidates are displayed in the number of drop-down boxes on the Reasoner UI and users are required to make a choice. In order to help users make an informed decision we display additional information and sort candidates according to probability of a match.

## Tag

Tags are searchable terms associated with various components of Promethium. They elevate the NLP searching capabilities and the useability of the Data maps. Tags can be applied at the column level, table level, Answers, and Data maps.

The rules for a tag are:

- Single word (no spaces)
- "-" and "\_" allowed
- Numbers allowed
- No special characters

## Domains

Domains are a powerful labeling and organizational concept within Promethium that integrates with Role Based Access Control. You can add a domain to any object in order to better group, filter or convey access rights.

## Trino

Trino is our distributed SQL query engine. It is deployed as a cluster and utilizes filestorage and metastore for persistence. Trino is a distributed system that utilizes an architecture similar to massively parallel processing (MPP) databases. Like many other big data engines there is a form of a coordinator node that then manages multiple worker nodes to process all the work that needs to be done in a K8S cluster.

## User Accounts & RBAC

This section describes the types of user accounts that exist within Promethium, their usage, and the default permissions sets that are created with a new installation.

Promethium operates a fine-grained, role-based, access control mechanism.

Users and roles are system-wide objects; they do not belong to specific data sources. Users are independent accounts with login access, while roles define groups of users that accrue privileges through role membership.

Every role inherits one or more sets of permissions. A permission set can include any combination of permissions across every object within the system.

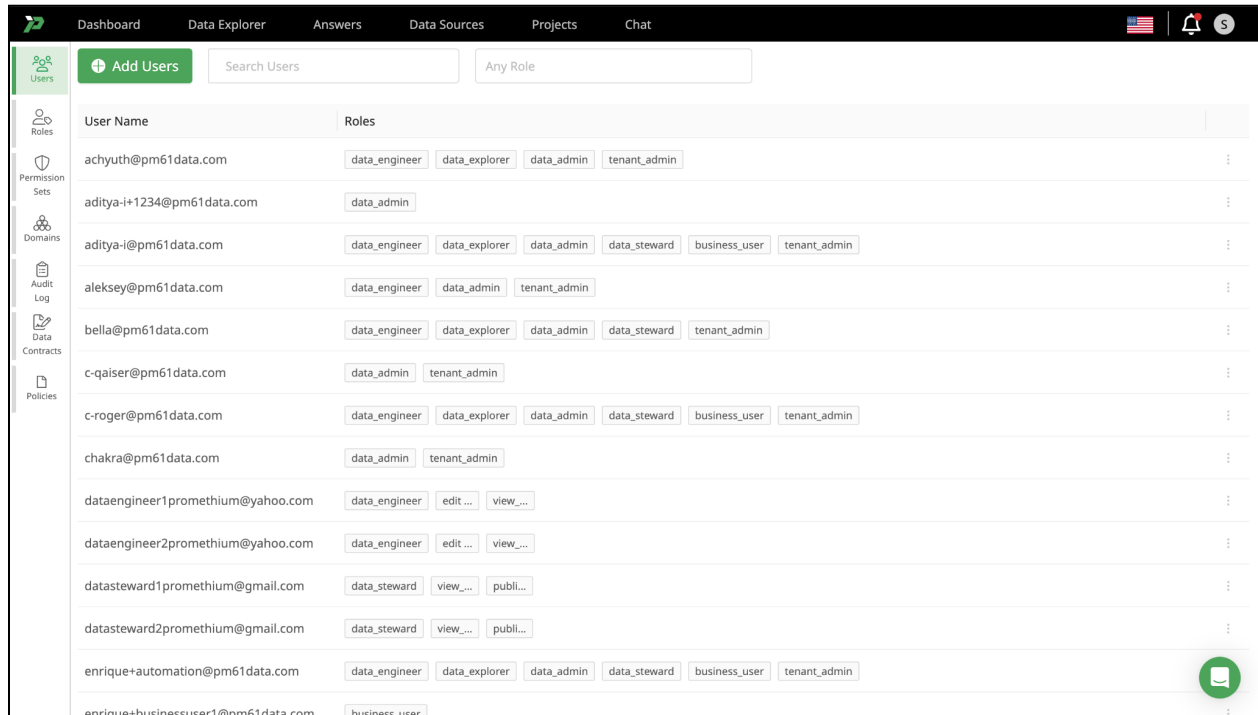
After creating roles and users, you can grant or revoke permissions with immediate effect. You can grant access privileges on various objects to one or more users or roles.

## Users

Users can be created, edited and deleted by users with the appropriate rights. By default this permission is associated only with the Tenant Admin role.

Navigate to User Management. Click on your initial or avatar on the top navigation bar. Select Tenant Management from the menu.

## Searching for a User



The screenshot displays the 'Users' management page in a dashboard. At the top, there are navigation tabs for 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. On the right side of the top bar, there are icons for a flag, a notification bell, and a user profile. Below the navigation, a sidebar on the left contains icons for 'Users', 'Roles', 'Permission Sets', 'Domains', 'Audit Log', 'Data Contracts', and 'Policies'. The main content area features a header with a green '+ Add Users' button, a 'Search Users' input field, and a dropdown menu currently set to 'Any Role'. Below this is a table listing registered users with their email addresses and assigned roles.

User Name	Roles
achyuth@pm61data.com	data_engineer data_explorer data_admin tenant_admin
aditya-i+1234@pm61data.com	data_admin
aditya-i@pm61data.com	data_engineer data_explorer data_admin data_steward business_user tenant_admin
aleksey@pm61data.com	data_engineer data_admin tenant_admin
bella@pm61data.com	data_engineer data_explorer data_admin data_steward tenant_admin
c-qaizer@pm61data.com	data_admin tenant_admin
c-roger@pm61data.com	data_engineer data_explorer data_admin data_steward business_user tenant_admin
chakra@pm61data.com	data_admin tenant_admin
dataengineer1promethium@yahoo.com	data_engineer edit... view...
dataengineer2promethium@yahoo.com	data_engineer edit... view...
datasteward1promethium@gmail.com	data_steward view... publi...
datasteward2promethium@gmail.com	data_steward view... publi...
enrique+automation@pm61data.com	data_engineer data_explorer data_admin data_steward business_user tenant_admin
enrique+businessuser1@pm61data.com	business_user

All currently registered users within the system will be displayed. You can search by username or role to filter a large list quickly. Searching by name will filter the list immediately with each letter entered. Searching by role will allow you to limit the list to users who have that role

## Creating a User

From the User Management screen click + Add Users.

Dashboard Data Explorer Answers Data Sources Projects Chat

### Add Users

Email:

Separate with commas, semicolons, or new lines.

\* Roles:

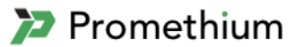
Send Welcome Email

- Users
- Roles
- Permission Sets
- Domains
- Audit Log
- Data Contracts
- Policies

Enter the email address of the user. At least one role is required for each user account. Selecting the Roles field will display a list of the currently available roles, select all that are appropriate.

It is often helpful to alert a new user to the availability of their account and this option is enabled by default. If you wish to not send an email, uncheck the box Send Welcome Email. Click Submit to create the account and return to the main user's view.





## Hi, your account is ready.

Hi,

Your account is ready to go! Getting started is fast and easy. Click the following link to login with you email and temporary password.

[Activate Account](#)

Link expires in 7 days

**Your username:** [bella@pm61data.com](mailto:bella@pm61data.com)

**Your temporary password:** hF5tz2pJwz

Your organization's sign in page is <https://qa-gcp-trino.qa.pm61data.io>

You will also receive a welcome email with tips to help you get started, including how to contact support.

Regards,

The Promethium Team

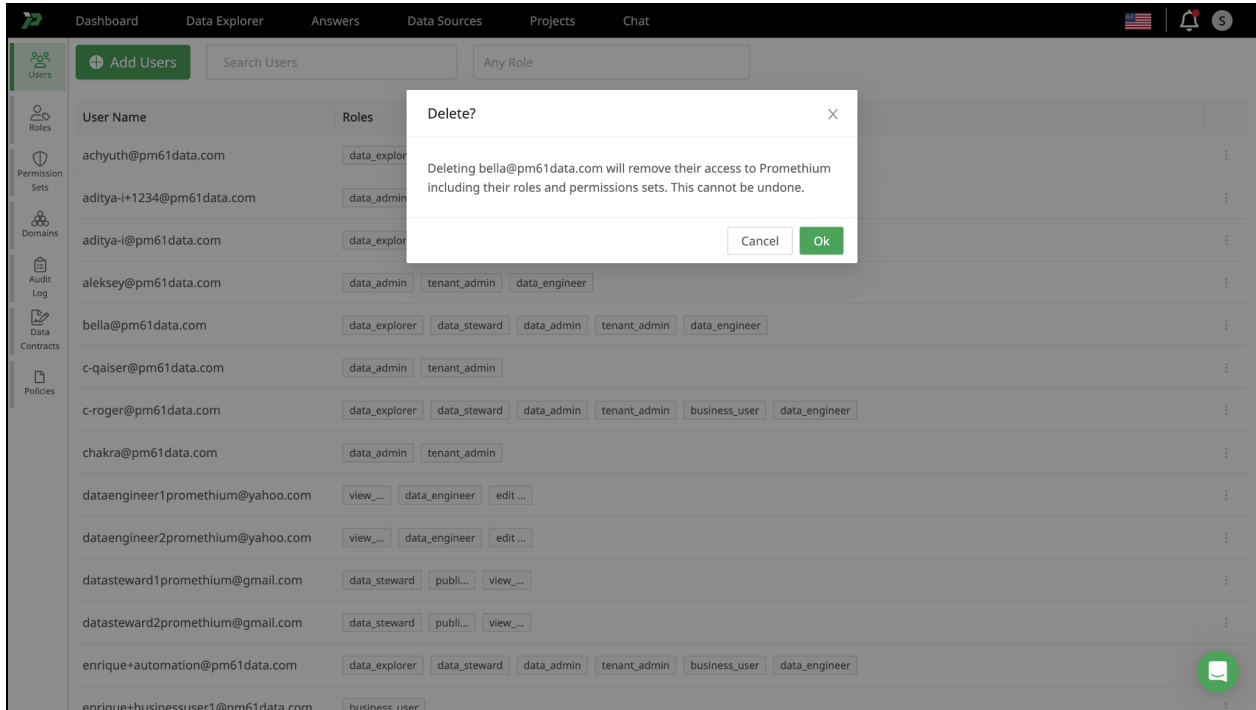
[promethium.ai](https://promethium.ai)

You received this email because someone added your information into Promethium. If you have any questions or require assistance, [contact us](#).

### *Deleting a User*

Users can be deleted by users with the appropriate rights. By default this permission is associated with the Tenant Admin role.

Select Users, select the user in question and click on the three vertical dots to the right of the table. Select Delete.



## Roles

There are 6 pre-configured roles that ship with every installation.

Role	Purpose
<b>Business User</b>	This user needs to ask questions, view answers and experiment with data.
<b>Data Engineer</b>	This user is responsible for creating reports and dashboards to help business users answer questions they can't self-serve.
<b>Data Steward</b>	This user is responsible for ensuring data access is in compliance with corporate policies and other regulations. This user will often act as analytics project managers to ensure requests and responses are passed appropriately between users and roles.
<b>Data Explorer</b>	This user has basic access rights - access to public, published answers and dashboards with no create or edit permissions.
<b>Tenant Admin</b>	Full control over the creation, update and deletion of tenant accounts
<b>Data Admin</b>	Full control over the creation, updating and deletion of data and data sources. Note that removing data sources does not delete the underlying database. This role is restricted from tenant modifications.

Multiple roles can be assigned to a single user. Select Users, select the user in question and add or remove roles within the Roles: field.

Dashboard | Data Explorer | Answers | Data Sources | Projects | Chat

Users | Roles | Permission Sets | Domains | Audit Log | Data Contracts | Policies

+ Add Users | Search Users | Any Role

User Name	Roles
achyuth@pm61data.com	data_explorer data_admin tenant_admin data_engineer
aditya-i+1234@pm61data.com	data_admin
aditya-i@pm61data.com	data_explorer data_steward data_admin tenant_admin business_user data_engineer
aleksey@pm61data.com	data_admin tenant_admin data_engineer
<b>bella@pm61data.com</b>	<b>data_explorer data_steward data_admin tenant_admin data_engineer</b>
c-qaiser@pm61data.com	data_admin tenant_admin
c-roger@pm61data.com	data_explorer data_steward data_admin tenant_admin business_user data_engineer
chakra@pm61data.com	data_admin tenant_admin
dataengineer1promethium@yahoo.com	view... data_engineer edit...
dataengineer2promethium@yahoo.com	view... data_engineer edit...
datasteward1promethium@gmail.com	data_steward publi... view...
datasteward2promethium@gmail.com	data_steward publi... view...
enrique+automation@pm61data.com	data_explorer data_steward data_admin tenant_admin business_user data_engineer
enrique+businessuser1@nm61data.com	business_user

Dashboard | Data Explorer | Answers | Data Sources | Projects | Chat

Users | Roles | Permission Sets | Domains | Audit Log | Data Contracts | Policies

Edit

User Name: bella@pm61data.com

Email: bella@pm61data.com

Avatar: B

Roles: data\_explorer x data\_steward x data\_admin x tenant\_admin x data\_engineer x

- Market test user
- view table unconstrained
- publish answer and publish answer unconstrained
- edit answer and edit answer unconstrained
- view\_answer\_unconstrained
- except view table unconstrained
- Global Test User
- answers

*Deleting a role*

Roles can be deleted by users with the appropriate rights. By default this permission is associated with the Data Steward and Tenant Admin roles.

Select Roles, select the role in question and click on the three vertical dots to the right of the table. Select Delete.

Role	Permission Sets	
Market test user	business_user	⋮
view table unconstrained	view_table_unconstrained	⋮
publish answer and publish answer unco...	publish answer and publish answer unconstrained	⋮
edit answer and edit answer unconstrain...	edit answer and edit answer unconstrained	⋮
view_answer_unconstrained	view_answer_unconstrained	⋮
except view table unconstrained	all except view table unconstrained	⋮
Global Test User	Global Test User	⋮
answers	answers	⋮
no notifications	no notifications	⋮
perm_role_av_4	test_perm_a	⋮
tenant_admin	tenant_admin	⋮
data_engineer	data_engineer	⋮
data_explorer	data_explorer	⋮
data_steward	data_steward	⋮

## Domains

To navigate to Domain Management click on your initial or avatar on the top navigation bar. Select Tenant Management from the menu. Select Domain from the left navigation menu.

Dashboard Data Explorer Answers Data Sources Projects Chat

Users Roles Permission Sets Domains Audit Log Data Contracts Policies

## Domain Management

Add domains to assign to roles or users in order to group projects, answers, data maps and etc

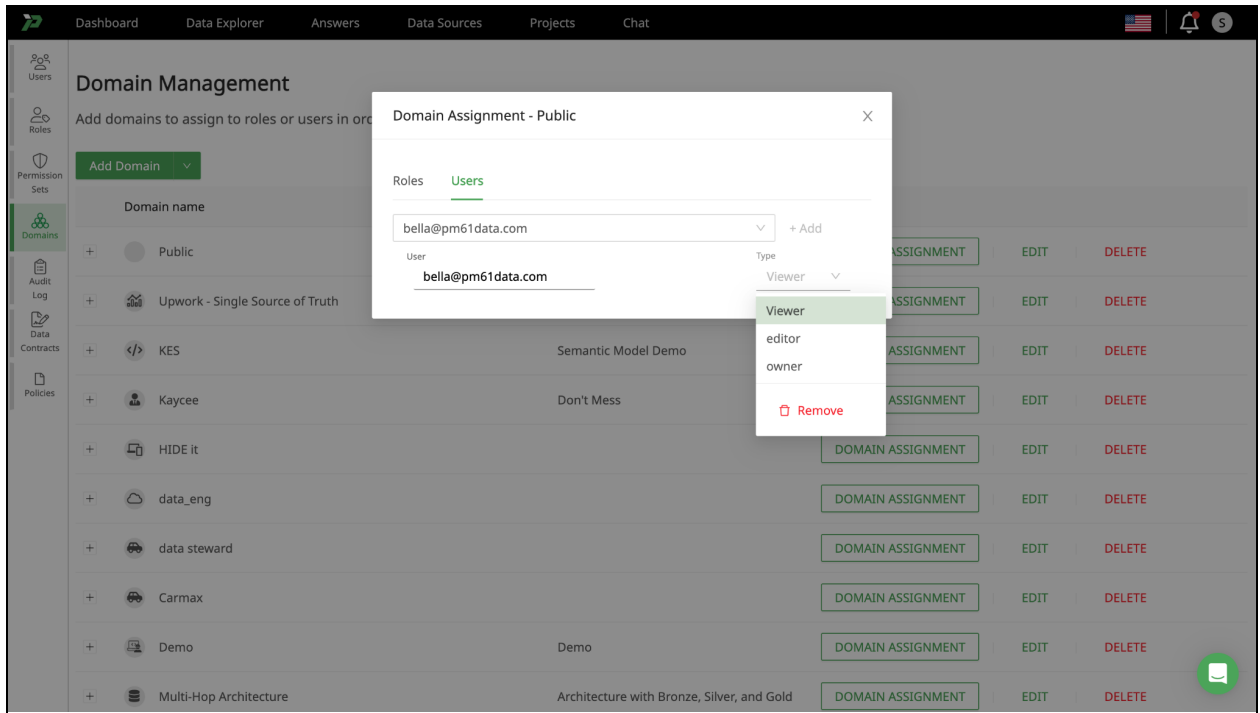
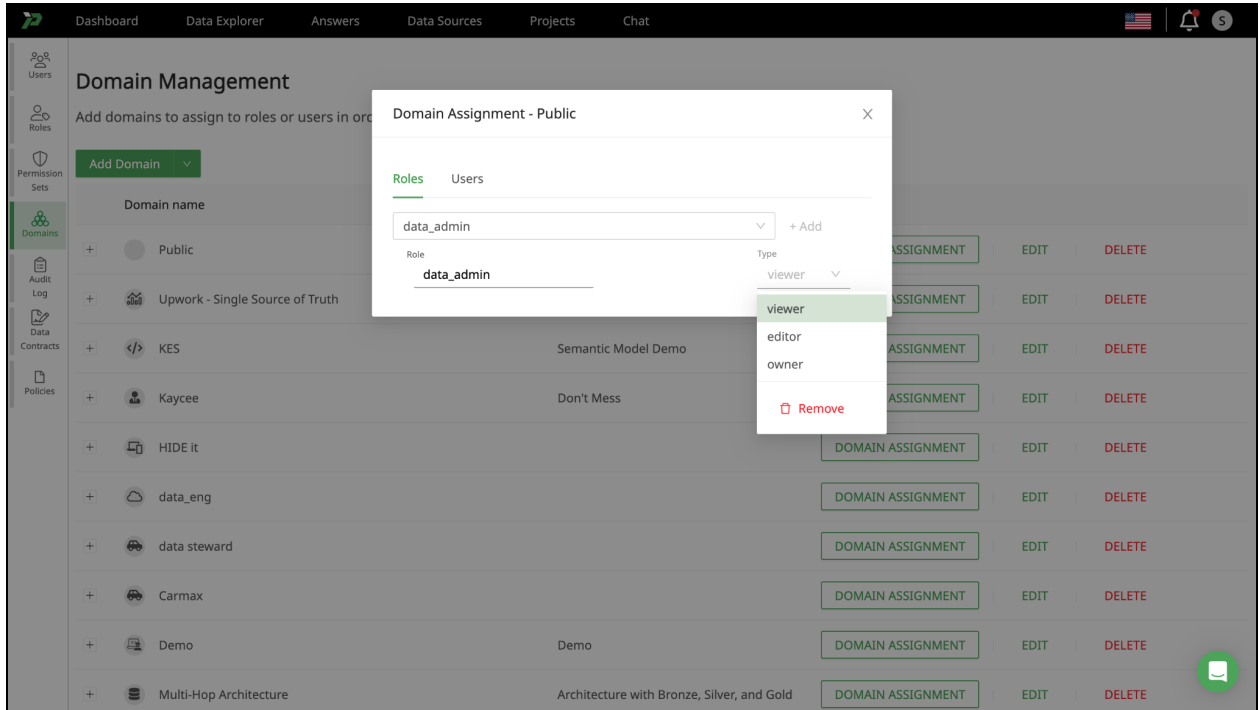
[Add Domain](#)

Domain name	Description	Action
+ Public		<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ Upwork - Single Source of Truth	Single Source of Truth	<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ KES	Semantic Model Demo	<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ Kaycee	Don't Mess	<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ HIDE it		<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ data_eng		<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ data steward		<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ Carmax		<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ Demo	Demo	<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>
+ Multi-Hop Architecture	Architecture with Bronze, Silver, and Gold	<a href="#">DOMAIN ASSIGNMENT</a>   <a href="#">EDIT</a>   <a href="#">DELETE</a>

### Domains & RBAC

Domains can be assigned to one or more Roles and / or Users to grant viewer, editor or owner rights. Any object that is associated with that Domain will inherit those user or role restrictions.

To assign a Domain to a specific, pre-defined, role or user click Domain assignment to render the assignment modal. Select either Role or User as appropriate and select the pre-defined role or user from the dropdown menu. Click +Add. From the type drop down menu select viewer, editor or owner as required. Note: you can remove an assignment by clicking remove from the type dropdown next to the role or user you wish to unassign.



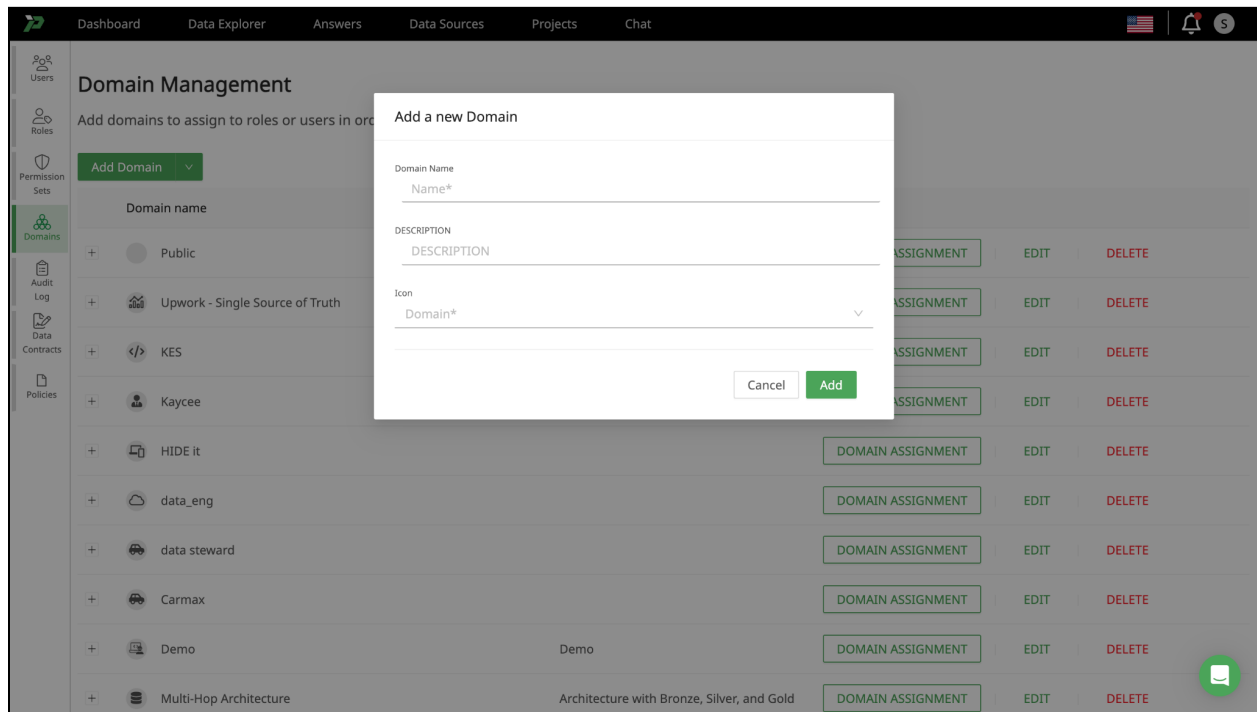
### Domain Creation

Domains can be created, edited and deleted by users with the appropriate rights. By default this permission is associated only with the Data Steward and Data Admin roles.

A user with the appropriate rights can create any number of Domains and Subdomains.

To create a Domain click the green Add Domain button from the Domain Management page. To create a Subdomain click the arrow next to Add Domain and select Add Subdomain.

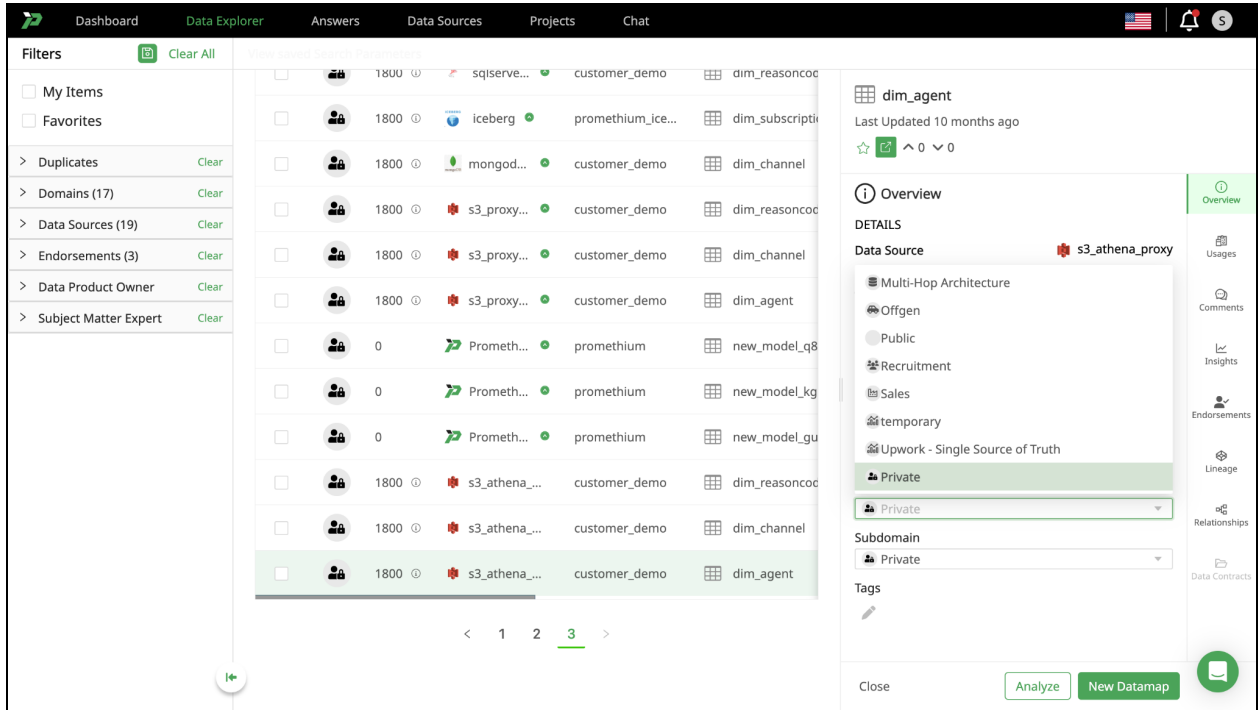
You must provide a domain name and select an icon. If you are creating a subdomain you must also select a pre-existing domain as the parent domain. The description field is optional but recommended so that other users can understand the purpose of your Domain at a later date. To create your domain click the green Add button.



### *Domain Assignment*

You can assign any object to a domain or subdomain - e.g data source, answers or data maps.

Assigning an object to a domain occurs from the object page. e.g. select a datamap or table from the Data Explorer flow. From the description modal you can assign or modify the current assignment directly.



### Domain Searching & Filtering

When searching or browsing you can use filtering to limit the result set to that Domain or set of Domains.

Select the Domains filter and click the Domains and subdomains you want to restrict your searches to. Your Domain filter will remain in effect until you modify directly or select Clear all filters.



The screenshot shows the 'Data Explorer' interface. On the left, there is a 'Filters' sidebar with a 'Domains (17)' section highlighted by a red box. This section contains a search bar and a list of domains: automated test, automated test 1, Carmax, data steward, data\_eng, Demo, Gartner, engineering, qa, sales, HIDE it, Kaycee, Friends, KES, Multi-Hop Architecture, Bronze, and Gold. The main area displays a table of data items with columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, and QI. The table lists various data items like 'stg\_orders', 'stg\_payments', 'customers', 'orders', 'stg\_customers', 'raw\_payments', 'raw\_orders', 'raw\_customers', and 'total\_sales\_by\_store\_by\_categor...'. At the top right, there is a 'New Datamap' button and a 'Sort By: Last Updated' dropdown.

The screenshot shows the 'Data Contracts' interface. On the left, there is a sidebar with navigation options: Users, Roles, Permission Sets, Domains, Audit Log, Data Contracts (highlighted), and Policies. The main area displays a table of data contracts with columns: Column Name, Description, and Actions. The table lists several contracts, including 'Contract - Answer fulfillment 3 hours', 'data\_contract\_for\_bq', 'Financial Reporting', 'test contracts', 'Contract with all policies', 'test contract all policies qs', and 'Financial Analysis for Marketing'. Each contract has 'Edit' and 'Delete' actions. At the top right, there are buttons for 'Upload JSON' and 'Create Data Contract'.

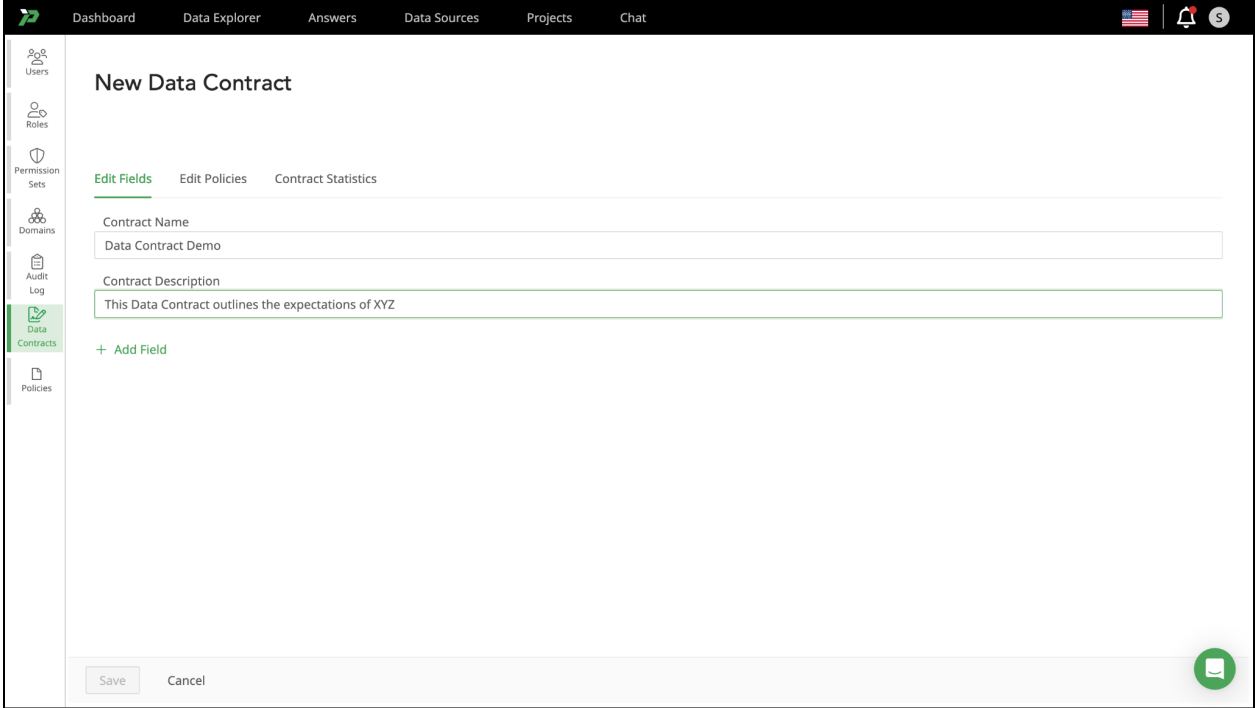
## Data Contracts

The Data Contract feature offers a fully customizable framework to set precise guidelines for your data management needs. Customers can tailor the refresh frequency, execution time, and answer fulfillment time according to their specific requirements. This customizable

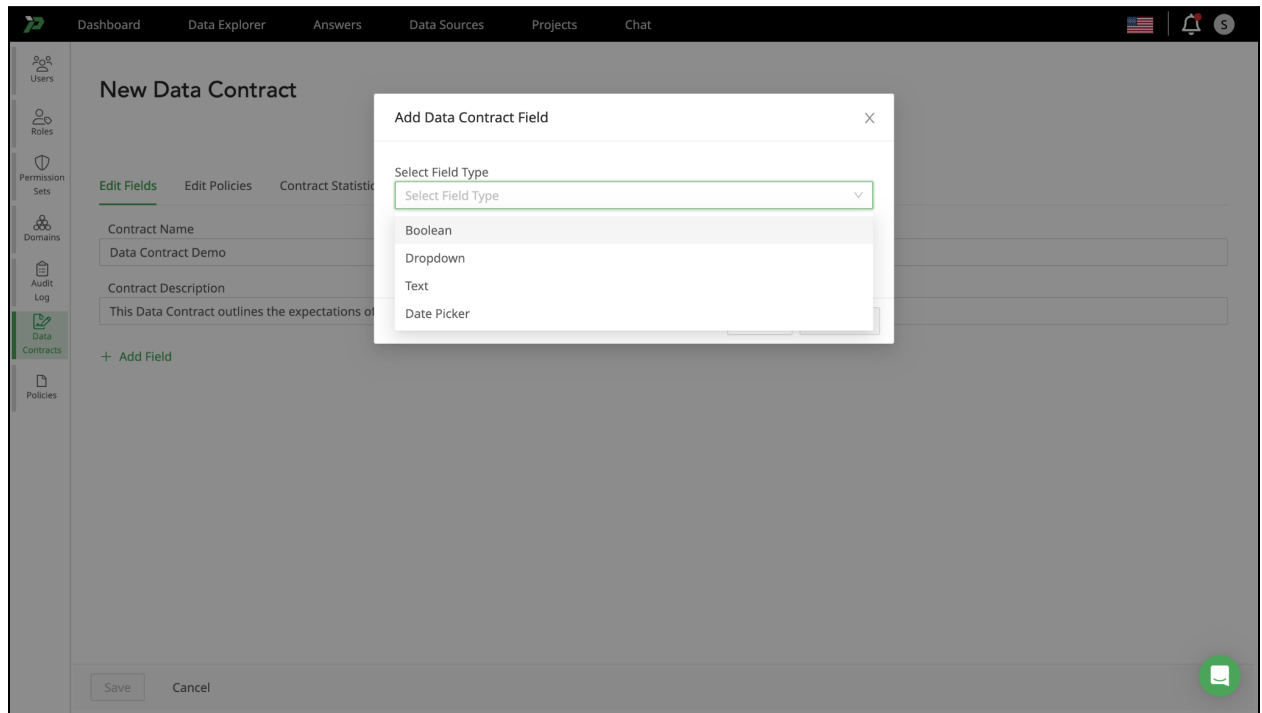
documentation serves to eliminate uncertainties and prevent undocumented assumptions about data, providing a clear and consistent understanding of data expectations.

*Creating a Data Contract*

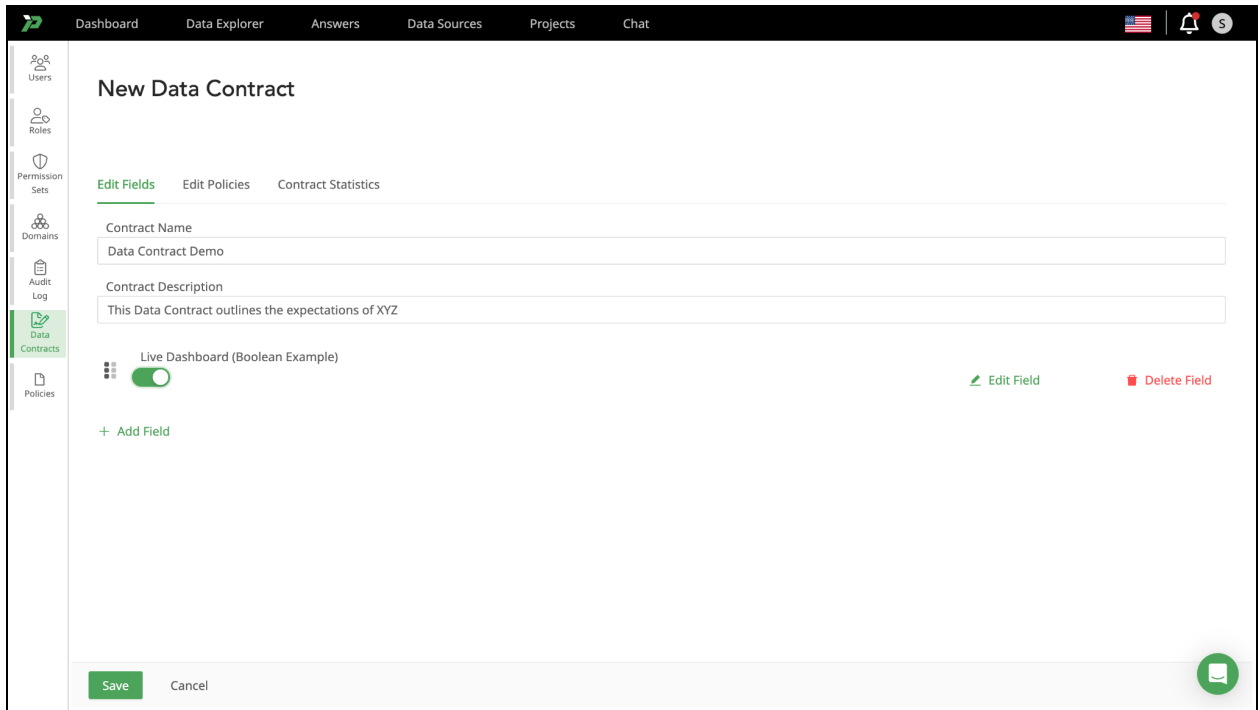
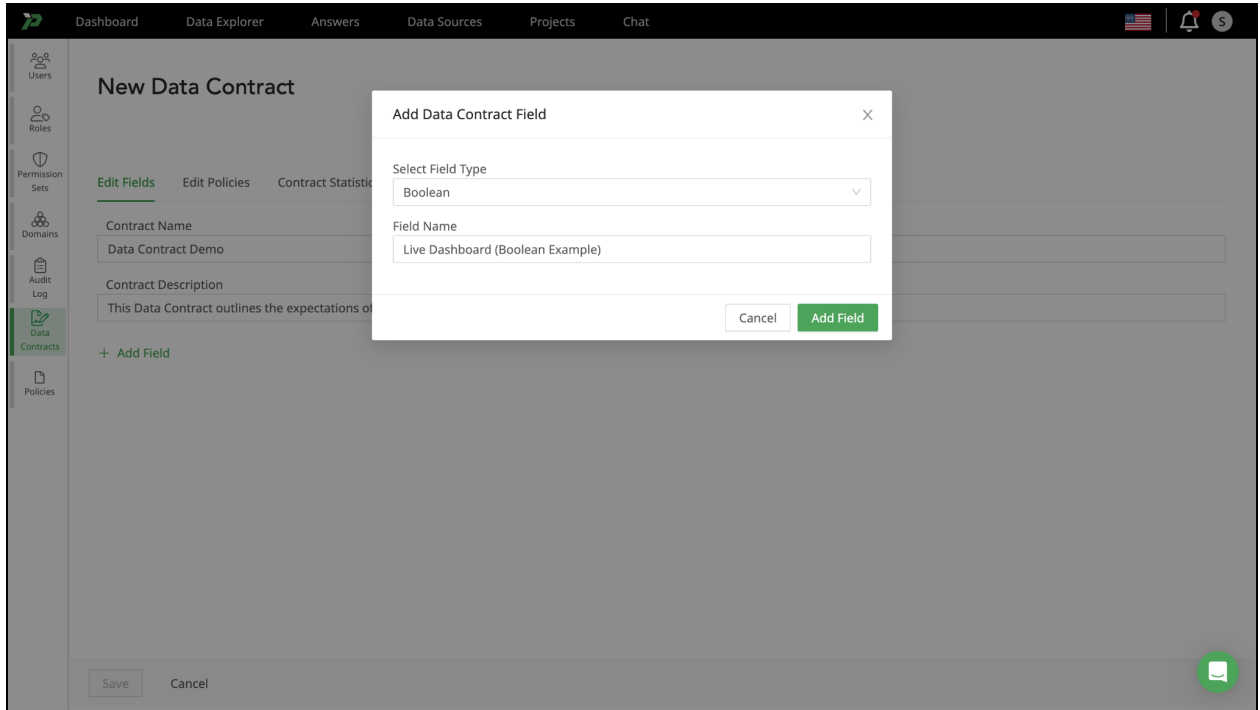
Navigate to the **Create Data Contract** button on the right side on the Data Contracts tab. In the New Data Contract page, the first initial fields you will see are Contract Name and Contract Description.



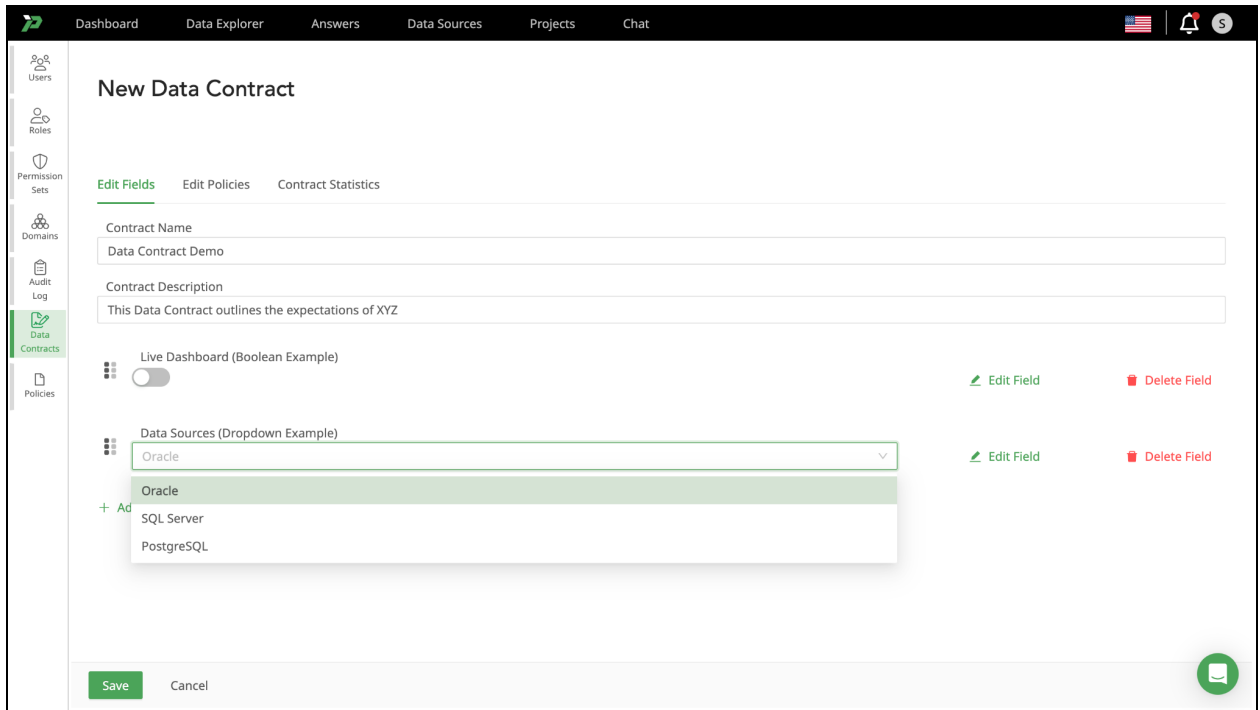
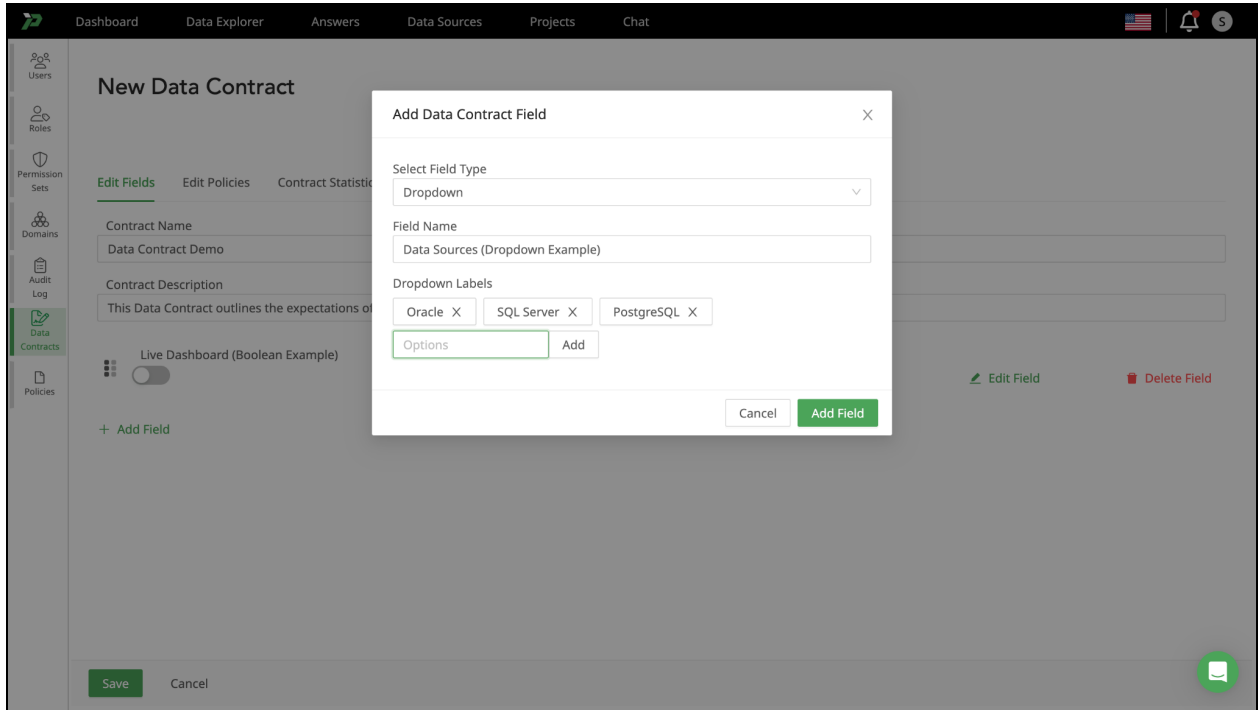
Click Add Field to add additional fields, a dialog box will appear with Select Field Type and Field Name.



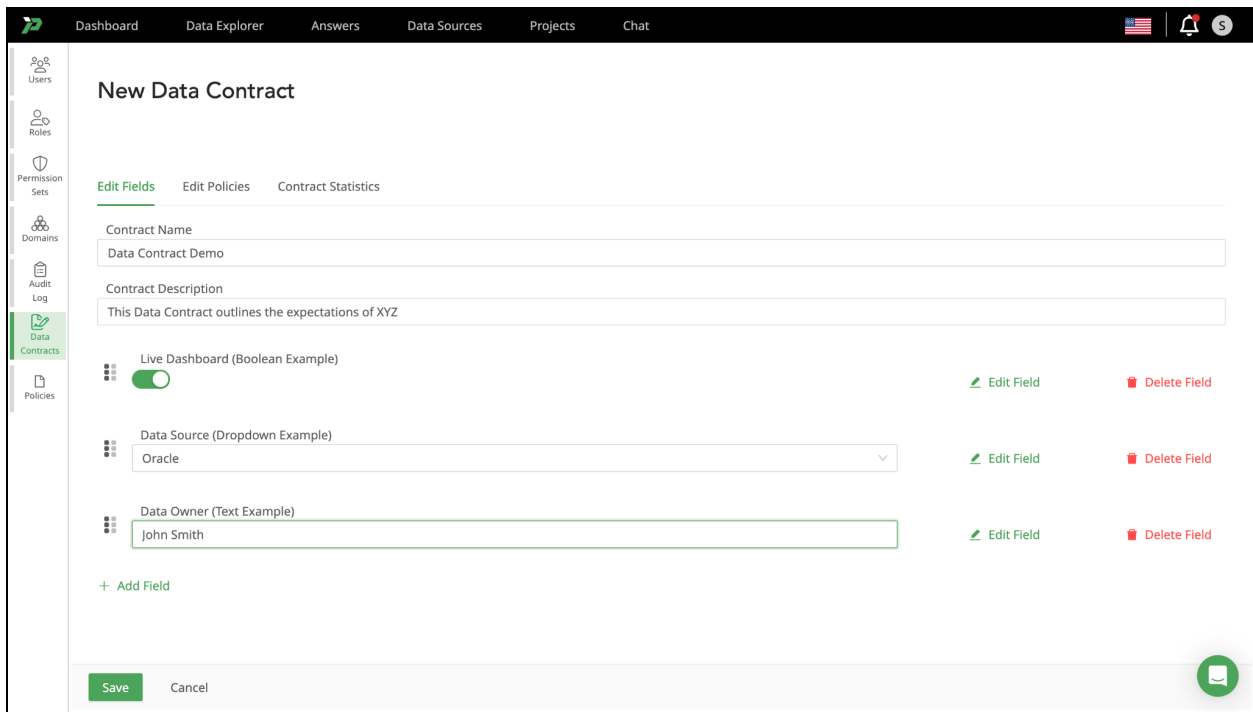
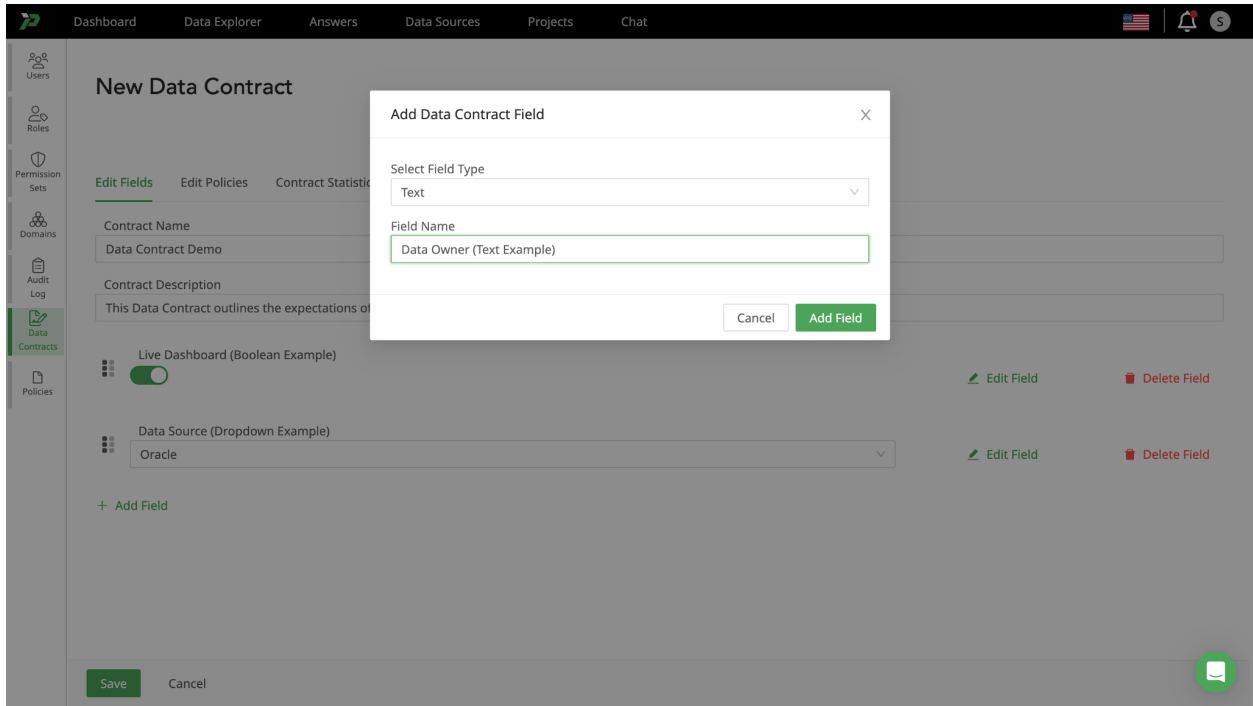
- Boolean - Name the field and then Add Field. A toggle switch will appear.



- Dropdown - Add all the options to be included in the dropdown, then Add Field. From there, you can select the appropriate option.



- Text - Name the field and then Add Field. A text box will be provided for you to enter any relevant information or comments as needed.



- Date Picker - Name the field and then Add Field. You will be able to select a date off a calendar view and specify a time to the second, time is in a 24-hr format.

Dashboard Data Explorer Answers Data Sources Projects Chat

Users Roles Permission Sets Domains Audit Log Data Contracts Policies

## New Data Contract

[Edit Fields](#)
[Edit Policies](#)
[Contract Statistics](#)

Contract Name  
Data Contract Demo

Contract Description  
This Data Contract outlines the expectations of

Live Dashboard (Boolean Example) [Edit Field](#) [Delete Field](#)

Oracle [Edit Field](#) [Delete Field](#)

John Smith [Edit Field](#) [Delete Field](#)

[+ Add Field](#)

[Save](#) [Cancel](#)

### Add Data Contract Field

Select Field Type  
Date Picker

Field Name  
Date Effective

[Cancel](#) [Add Field](#)

Dashboard Data Explorer Answers Data Sources Projects Chat

Users Roles Permission Sets Domains Audit Log Data Contracts Policies

## New Data Contract

[Edit Fields](#)
[Edit Policies](#)
[Contract Statistics](#)

Contract Name  
Data Contract Demo

Contract Description  
This Data Contract outlines the expectations of XYZ

Live Dashboard (Boolean Example) [Edit Field](#) [Delete Field](#)

Oracle [Edit Field](#) [Delete Field](#)

John Smith [Edit Field](#) [Delete Field](#)

[+ Add Field](#)

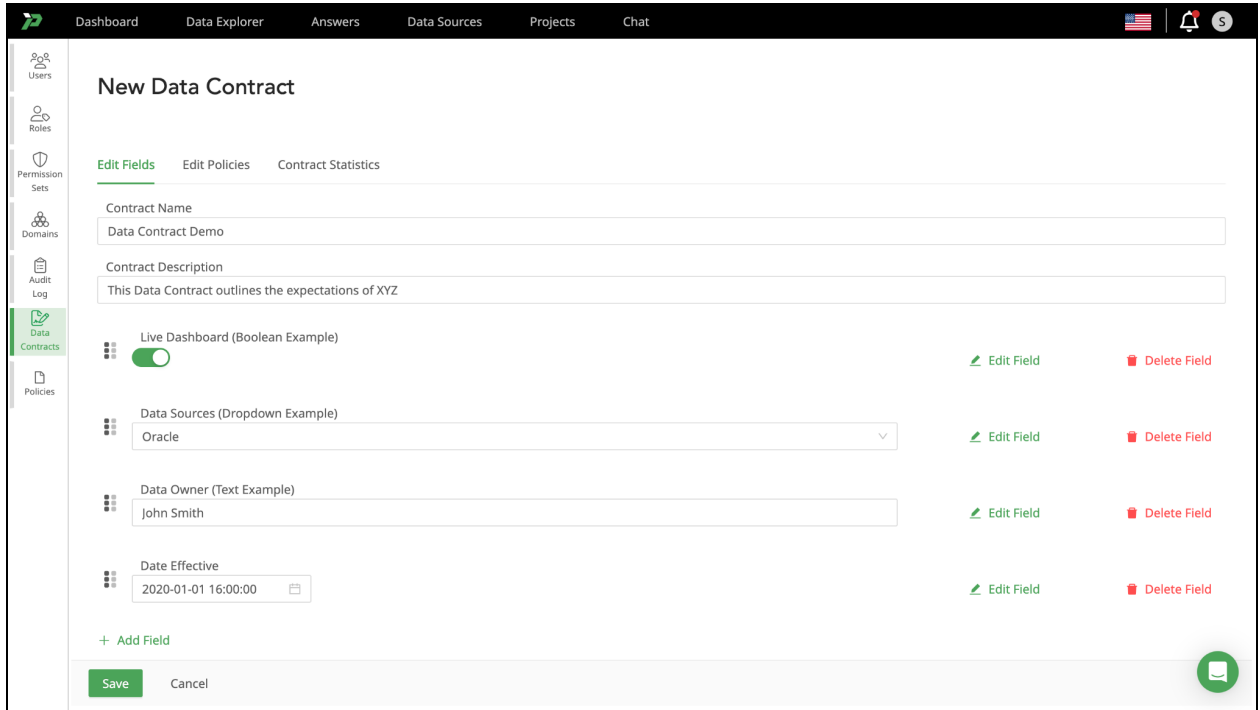
[Save](#) [Cancel](#)

<< < Jan 2020 > >> 16:00:00

Su	Mo	Tu	We	Th	Fr	Sa	16	00	00
29	30	31	1	2	3	4	17	01	01
5	6	7	8	9	10	11	18	02	02
12	13	14	15	16	17	18	19	03	03
19	20	21	22	23	24	25	20	04	04
26	27	28	29	30	31	1	21	05	05
2	3	4	5	6	7	8	22	06	06
							23	07	07

Now [Ok](#)

2020-01-01 16:00:00 [📅](#)



Once you are satisfied with the fields added, click Save. Fields can be conveniently edited or removed by selecting the links on the right, which will prompt a dialog box for the necessary changes.

### *Applying the Data Contract*

With your newly created Data Contract, you can now apply it to an Answer page and/or a Datamap. Go to your selected Answer page or Datamap, and then switch to the Data Contract tab. Choose your preferred option from the dropdown menu, click 'Save,' and the Data Contract



will be set in place with all related policies actively enforced.

The screenshot shows the 'Answer Demo' configuration page. The top navigation bar includes 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. The page title is 'Answer Demo' with sub-titles 'answer x' and 'demo x'. On the right, there are dropdown menus for 'Status' (set to 'In Progress'), 'Initial Requester' (support@pm61...), 'Data Product Owner' (Not Selected), and 'Subject Matter Expert' (Not Selected). The main content area is titled 'Data Contract' and contains several fields: 'Select Data Contract' (Data Contract Demo), 'Live Dashboard (Boolean Example)' (checked), 'Data Source (Dropdown Example)' (Oracle), 'Data Owner (Text Example)' (John Smith), and 'Date Effective' (2020-01-01 16:00:00). A 'Save' button is in the top right. A 'Policy Enforcement History' link is at the bottom left.

The screenshot shows the 'data\_contract\_datamap\_demo' configuration page. The top navigation bar is the same as the previous screenshot. The page title is 'data\_contract\_datamap\_demo'. The main content area is titled 'Data Contract' and contains the same fields as the previous screenshot: 'Select Data Contract' (Data Contract Demo), 'Live Dashboard (Boolean Example)' (checked), 'Data Source (Dropdown Example)' (Oracle), 'Data Owner (Text Example)' (John Smith), and 'Date Effective' (2020-01-01 16:00:00). A 'Save' button is in the top right. A 'Policy Enforcement History' link is at the bottom left.

## Ranger

Apache Ranger is a well established enterprise data level security tool. Promethium includes Ranger, pre-configured with Trino, within our Intelligent Edge (IE) to ensure data security.

This section describes the architecture and how to create masking and row-level filter rules in Ranger.

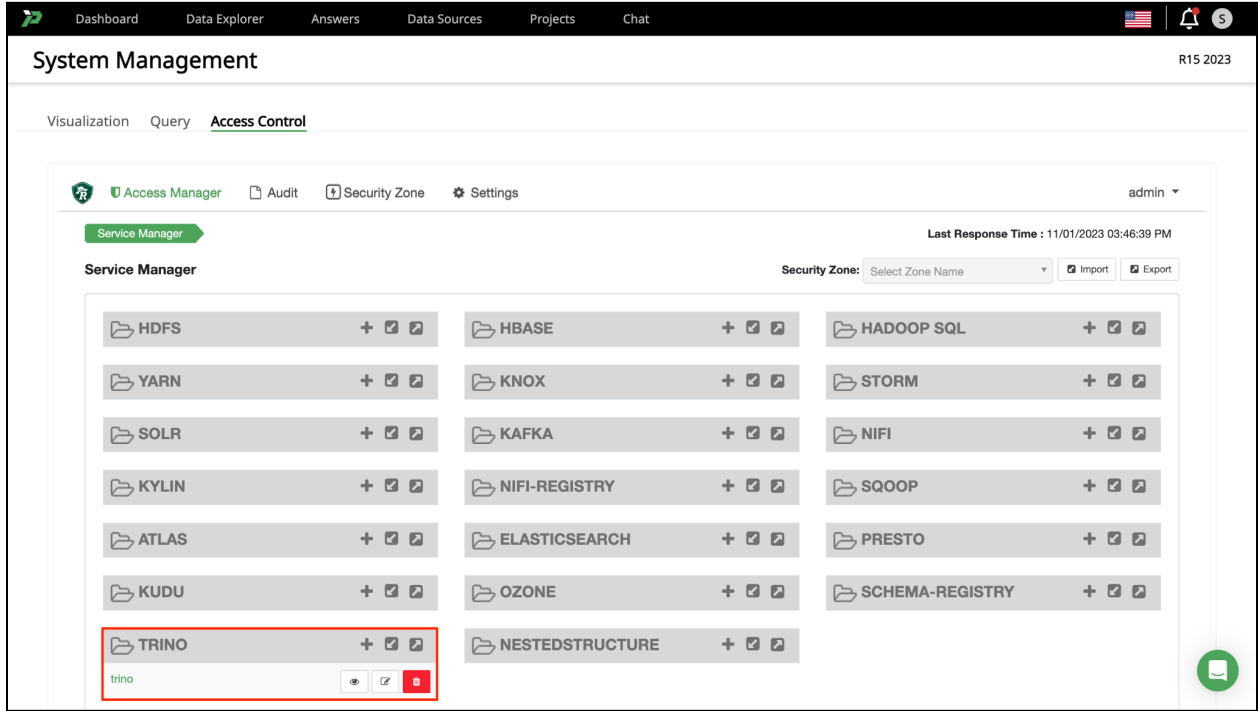
Promethium includes several core Ranger components -

**Ranger Admin** - This is the Ranger agent. It manages all configurations, provides a UI and allows the management of policies and permissions. This UI will be made available, embedded, directly within the System Management area of Promethium

**Trino Ranger Plugin** - The Trino Ranger plugin allows Trino to validate policies before executing queries.

**Ranger PostgresDB** - Ranger requires its own database for the storage of users and policies.

### Creating a User



Click **System Management** and then select **Ranger**. This will render the Ranger Admin UI within Promethium.

Click on **Trino** to enter the policy manager for Trino.

To apply a rule to a user that does not exist in Ranger, hover over the **Settings** button in the navigation bar and click on **Users/Groups/Roles**.

The screenshot shows the Ranger System Management interface. The top navigation bar includes 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. The main header is 'System Management' with the date 'R15 2023'. Below the header, there are tabs for 'Visualization', 'Query', and 'Access Control'. The 'Access Control' section is active, showing a navigation menu with 'Access Manager', 'Audit', 'Security Zone', and 'Settings'. The 'Settings' menu is open, highlighting 'Users/Groups/Roles'. The main content area shows a 'Service Manager' section with a grid of service cards for HDFS, YARN, SOLR, KYLIN, ATLAS, KUDU, TRINO, HBASE, KNOX, KAFKA, NIFI-REGISTRY, ELASTICSEARCH, OZONE, NESTEDSTRUCTURE, HADOOP SQL, STORM, NIFI, SQOOP, PRESTO, and SCHEMA-REGISTRY. A 'Last Response Time' indicator shows '11/01/2023 03:46:39 PM'. A URL bar at the bottom left shows 'https://qa-gcp-ranger.qa.pm61data.io/#/users/usertab'.

Click **Add New User**

The screenshot shows the Ranger System Management interface with the 'Users/Groups/Roles' section selected. The 'Users' tab is active, displaying a 'User List' table. The table has columns for 'User Name', 'Email Address', 'Role', 'User Source', 'Sync Source', 'Groups', 'Visibility', and 'Sync Details'. There are 9 users listed. A search bar is at the top of the table with the placeholder 'Search for your users...'. To the right of the search bar are buttons for 'Add New User', 'Set Visibility', and a trash icon. The 'Last Response Time' indicator shows '11/01/2023 03:58:35 PM'.

	User Name	Email Address	Role	User Source	Sync Source	Groups	Visibility	Sync Details
<input type="checkbox"/>	admin		Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	rangerusersync		Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	rangertagsync		Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	promethium		User	External	--	--	Visible	--
<input type="checkbox"/>	support@pm61data.com	support@pm61data.com	Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	ravi@pm61data.com	ravi@pm61data.com	Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	enrique+automation@pm61data.com	enrique@pm61data.com	Admin	Internal	--	--	Visible	--
<input type="checkbox"/>	kaycee@pm61data.com	kaycee@pm61data.com	Admin	Internal	--	--	Visible	--

Fill out the form. The username field must be the full email address of the user registered in Promethium. The password does not matter - Ranger and Promethium will match on the user.

Click **Save**. You will now be able to apply masking and row-level rules to this user.

The screenshot shows the 'User Create' form in the Promethium interface. The form fields are as follows:

- User Name \*: bella@promethium.ai
- New Password \*: [Redacted]
- Password Confirm \*: [Redacted]
- First Name \*: Bella
- Last Name: Baek
- Email Address: bella@pm61data.com
- Select Role \*: Admin
- Group: Please select (with a plus icon)

Additional interface details include a top navigation bar with 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. The user 'admin' is logged in, and the last response time is 11/01/2023 04:33:14 PM.

### Creating a Masking Rule

Navigate to the **Masking** tab. If you don't see this tab, click the **Ranger** logo to move to the top level navigation, select **trino** and you should see the correct tab options.

Click **Add New Policy**.

The screenshot shows the 'System Management' interface with the 'Access Control' section active. The 'List of Policies' table for the 'trino' database is displayed. The table has the following columns: Policy ID, Policy Name, Policy Labels, Status, Audit Logging, Roles, Groups, Users, and Action. There are five rows of policies listed, all with a status of 'Enabled' and 'Audit Logging' set to 'Enabled'. The 'Users' column for each row lists 'promethium (USER)', 'admin', and 'support@pm01data.com'. A search bar and an 'Add New Policy' button are located at the top right of the table area.

Policy ID	Policy Name	Policy Labels	Status	Audit Logging	Roles	Groups	Users	Action
1	all - trino user	--	Enabled	Enabled	--	--	promethium (USER) support@pm01data.com admin	👁️ ✎️ 🗑️
2	all - catalog	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm01data.com	👁️ ✎️ 🗑️
3	all - function	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm01data.com	👁️ ✎️ 🗑️
4	all - catalog, sessionproperty	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm01data.com	👁️ ✎️ 🗑️
5	all - catalog, schema, procedure	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm01data.com	👁️ ✎️ 🗑️

Name the policy in a manner that accurately describes your intended policy rule.

In this example we will be applying a masking rule to a datamap in Trino.

To apply the masking rule to a datamap in Trino, set the Catalog as **hive** and the schema as **promethium**.

We'll be applying a masking rule on a datamap **nick\_ranger\_demo** and on column **plan\_name**.

Ignore any errors that pop up on the right of the screen claiming that “Resource lookup failed”. This does not impact the application masking rule.

The screenshot shows the configuration page for an application masking rule. At the top, there is a navigation bar with links for Dashboard, Data Explorer, Answers, Data Sources, Projects, and Chat. The main content area includes the following fields:

- Policy Type: **Access**
- Policy ID: **15**
- Policy Name:  with an **Enabled** toggle and a **Normal** button.
- Policy Label:
- Description:
- Audit Logging: **Yes** toggle
- Resources section with three entries:
  - catalog:  with an **Include** toggle
  - schema:  with an **Include** toggle
  - table:  with an **Include** toggle

This screenshot shows the lower portion of the configuration page. It includes:

- A **+ Add Resource** button.
- An **Allow Conditions:** section with a **Hide** link.
- A table for defining conditions:

Select Role	Select Group	Select User	Permissions	Delegate Admin
<input type="text" value="Select Roles"/>	<input type="text" value="Select Groups"/>	<input type="text" value="bella@promethium.ai"/>	<b>Alter</b> <input type="checkbox"/>	<input checked="" type="checkbox"/>

Below the table is a **+ Add** button.

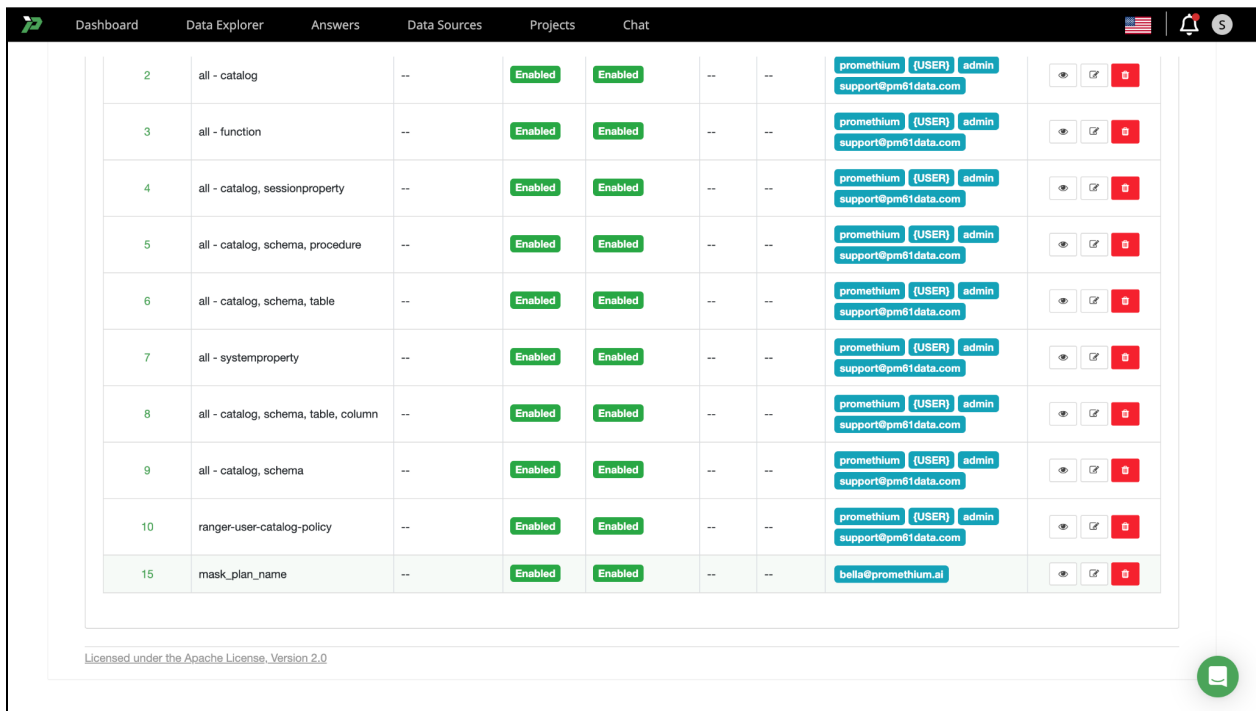
At the bottom of the form are **Mask Conditions**. Here you can define which users and rules you want to apply to the specified datamap.

Click in the **Select User** field and either type or scroll to find one of the existing users.

Click the **+** button in **Permissions** and choose **Alter**.

Click the **+** button in **Delegate Admin** and select the option you want to apply. For the purposes of this documentation we are going to check the box.

When you are satisfied with the rules click **Add** to save the rule at the very bottom of the page. The rule will instantly take effect. You will be returned to the full list of masking rules and will see the policy you created at the bottom of the table.



The screenshot shows a web interface with a navigation bar at the top containing 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. On the right side of the navigation bar are icons for a flag, a bell, and a user profile. The main content area displays a table with 15 rows of masking rules. Each row includes a rule ID, a pattern, a status column with 'Enabled' in a green box, and a 'Users' column with 'promethium (USER) admin support@pm61data.com'. The last row (ID 15) has a different user: 'bella@promethium.ai'. To the right of each row are three icons: an eye, a pencil, and a red square. At the bottom left of the interface, it says 'Licensed under the Apache License, Version 2.0'. At the bottom right, there is a green circular chat icon.

2	all - catalog	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
3	all - function	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
4	all - catalog, sessionproperty	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
5	all - catalog, schema, procedure	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
6	all - catalog, schema, table	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
7	all - systemproperty	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
8	all - catalog, schema, table, column	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
9	all - catalog, schema	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
10	ranger-user-catalog-policy	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com			
15	mask_plan_name	--	Enabled	Enabled	--	--	bella@promethium.ai			

Dashboard Data Explorer Answers Data Sources Projects Chat

2	all - catalog	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
3	all - function	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
4	all - catalog, sessionproperty	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
5	all - catalog, schema, procedure	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
6	all - catalog, schema, table	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
7	all - systemproperty	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
8	all - catalog, schema, table, column	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
9	all - catalog, schema	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
10	ranger-user-catalog-policy	--	Enabled	Enabled	--	--	promethium (USER) admin support@pm61data.com	👁️ 📄 🗑️
15	mask_plan_name	--	Enabled	Enabled	--	--	bella@promethium.al	👁️ 📄 🗑️

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To test the rule, return to **Data Explorer**, search for the datamap **nick\_ranger\_demo** and click on it. Select the **Samples** tab to load the data. You will see the column you specified masked per your rule.

nick\_ranger\_demo Mar 16, 2023 (0) (0) (0) X

Overview Columns Samples Usage Insights Comments Endorsement

Limit Rows: 100  Filter Null 100 rows, 26 KB fetched and 871 ms runtime Search fields

plan_id	plan_name	mer	disc	package	len	rollup1	asp	startdate
249	-	11.000000000	Discount	All Access	Annual	All Access Discount Annual	Y	2017-11-01
250	-	5.000000000	Discount	Mostly Music	Monthly	Mostly Music Discount Monthly	N	2019-02-01
251	-	15.740000000	Discount	All Access	Monthly	All Access Monthly - 25% Off	N	2019-01-01
252	-	0.000000000	TBD	Select	Semi Annual	Select Semi	TBD	2015-01-05
253	-	6.660000000	TBD	TBD	TBD	Other	TBD	2015-01-05
254	-	6.660000000	TBD	TBD	TBD	Other	TBD	2015-01-05
255	-	6.660000000	Full Price	TBD	TBD	Other	TBD	2015-01-05
256	-	6.660000000	TBD	TBD	TBD	Other	TBD	2015-01-05

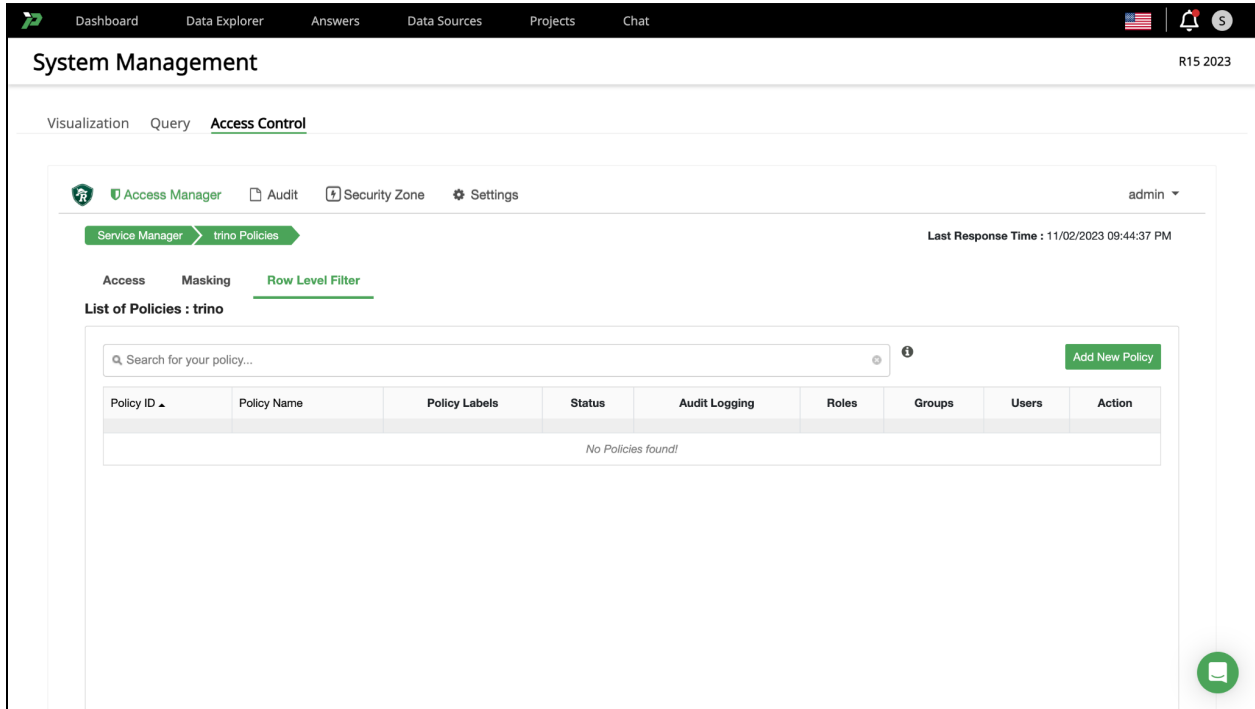
Cancel Edit Datamap



## Creating a Role-Level Filter Rule

Navigate to the **Row Level Filter** tab. If you don't see this tab, click the **Ranger** logo to move to the top level navigation, select **trino** and you should see the correct tab options.

Click **Add New Policy**.



The screenshot displays the System Management interface. At the top, there is a navigation bar with links for Dashboard, Data Explorer, Answers, Data Sources, Projects, and Chat. The main header shows 'System Management' and the date 'R15 2023'. Below this, there are tabs for Visualization, Query, and Access Control. The Access Control section is active, showing sub-tabs for Access Manager, Audit, Security Zone, and Settings. The 'trino Policies' section is selected, and the 'Row Level Filter' tab is active. A search bar is present with the text 'Search for your policy...'. Below the search bar is a table with columns: Policy ID, Policy Name, Policy Labels, Status, Audit Logging, Roles, Groups, Users, and Action. The table is currently empty, displaying the message 'No Policies found!'. An 'Add New Policy' button is located in the top right corner of the table area. The user 'admin' is logged in, and the last response time is '11/02/2023 09:44:37 PM'.

Name the policy in a manner that accurately describes your intended policy rule.

In this example we will be applying a row-level filter rule to a datamap in Trino.

To apply the masking rule to a datamap in Trino, set the Catalog as **hive** and the schema as **promethium**.

We'll be applying a masking rule on a datamap **nick\_ranger\_demo** and on column **package**.

Ignore any errors that pop up on the right of the screen claiming that "Resource lookup failed". This does not impact the application masking rule.

Dashboard Data Explorer Answers Data Sources Projects Chat 🇺🇸 🔔 👤

Service Manager > trino Policies > Create Policy Last Response Time : 11/02/2023 09:45:29 PM

### Create Policy

**ⓘ** Please ensure that users/groups listed in this policy have access to the table via an **Access Policy**. This policy does not implicitly grant access to the table. ✕

**Policy Details:**

Policy Type: **Row Level Filter** ⊖ Add Validity Period

Policy Name \*: package\_is\_all\_access ⓘ Enabled Normal

Policy Label: Policy Label

Description: filter to all\_access packages only.

Audit Logging: Yes

**Resources :**

Trino Catalog \*: hive

Dashboard Data Explorer Answers Data Sources Projects Chat 🇺🇸 🔔 👤

Service Manager > trino Policies > Create Policy Last Response Time : 11/02/2023 09:45:29 PM

Trino Schema \*: promethium

Trino Table \*: nick\_ranger\_demo

+ Add Resource

**Row Filter Conditions:** ⋮

Select Role	Select Group	Select User	Access Types	Row Level Filter	
Select Roles	Select Groups	bella@promethium.ai	Select	package = 'All Access'	✕
+					

Add Cancel

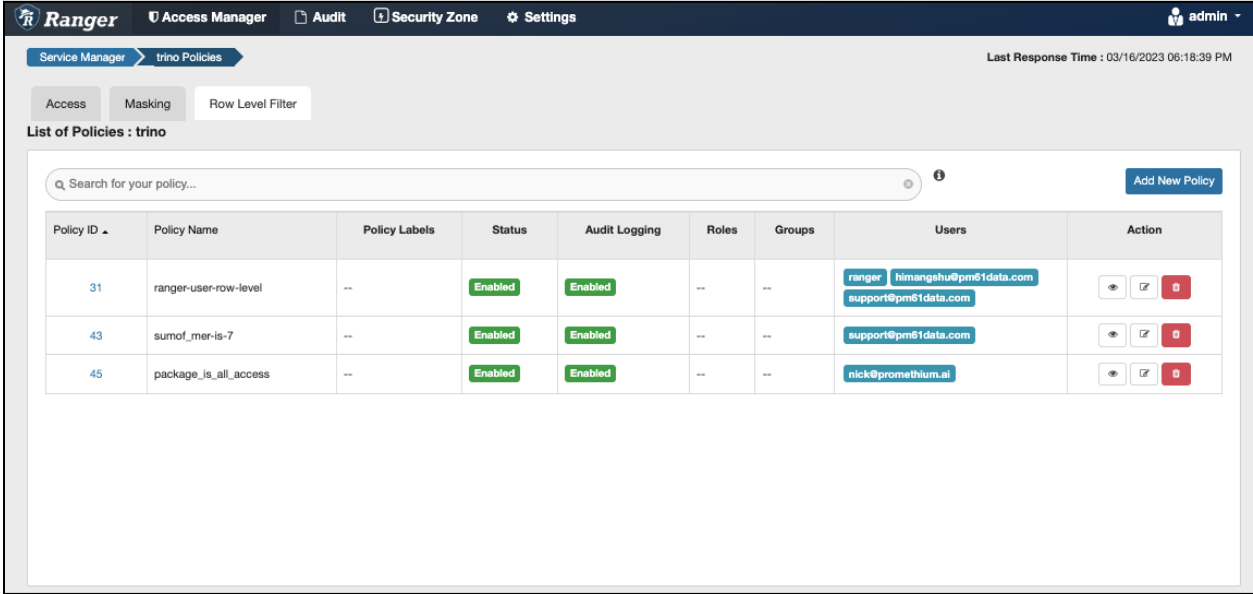
At the bottom of the form are **Row Filter Conditions**. Here you can define which users and rules you want to apply to the specified datamap.

Click in the **Select User** field and either type or scroll to find one of the existing users.


Click the **+** button in **Access Types** and choose **Select**.

Click the + button in **Row Level Filter** and enter the filter you want to apply. The filter expression must be a valid WHERE clause for the table or view. For the purposes of this documentation we are filtering to display only those rows which include 'all access'..

When you are satisfied with the rules click **Add** to save the rule. The rule will instantly take effect. You will be returned to the full list of masking rules and will see the policy you created at the bottom of the table.



To test the rule, return to **Data Explorer**, search for the datamap **nick\_ranger\_demo** and click on it. Select the **Samples** tab to load the data. You will see the row level mask you specified ensures only rows matching the mask are displayed..


nick\_ranger\_demo  (0) (0) (0) X

Mar 16, 2023

Overview Columns **Samples** Usage Insights Comments Endorsement

Limit Rows: 100  Filter Null 100 rows, 39 KB fetched and 797 ms runtime

plan_id	plan_name	mer	disc	package	len	rollup1	asp	startdate
249	Promo - All Access - 12mo - 132.00 - (+\$1.00 per month)	11.000000000	Discount	All Access	Annual	All Access Discount Annual	Y	2017-11-01
251	All Access - 1mo - wActv   Veteran 25% OffA1	15.740000000	Discount	All Access	Monthly	All Access Monthly - 25% Off	N	2019-01-01
257	Introductory - All Access - 12mo w/2mo Savings - wActv	18.990000000	Full Price	All Access	Annual	All Access Annual	Y	2015-01-05
271	Promo - All Access - Semi-Annual - 25% off	15.740000000	Full Price	All Access	Semi Annual	All Access Semi - 25% off	N	2018-02-14

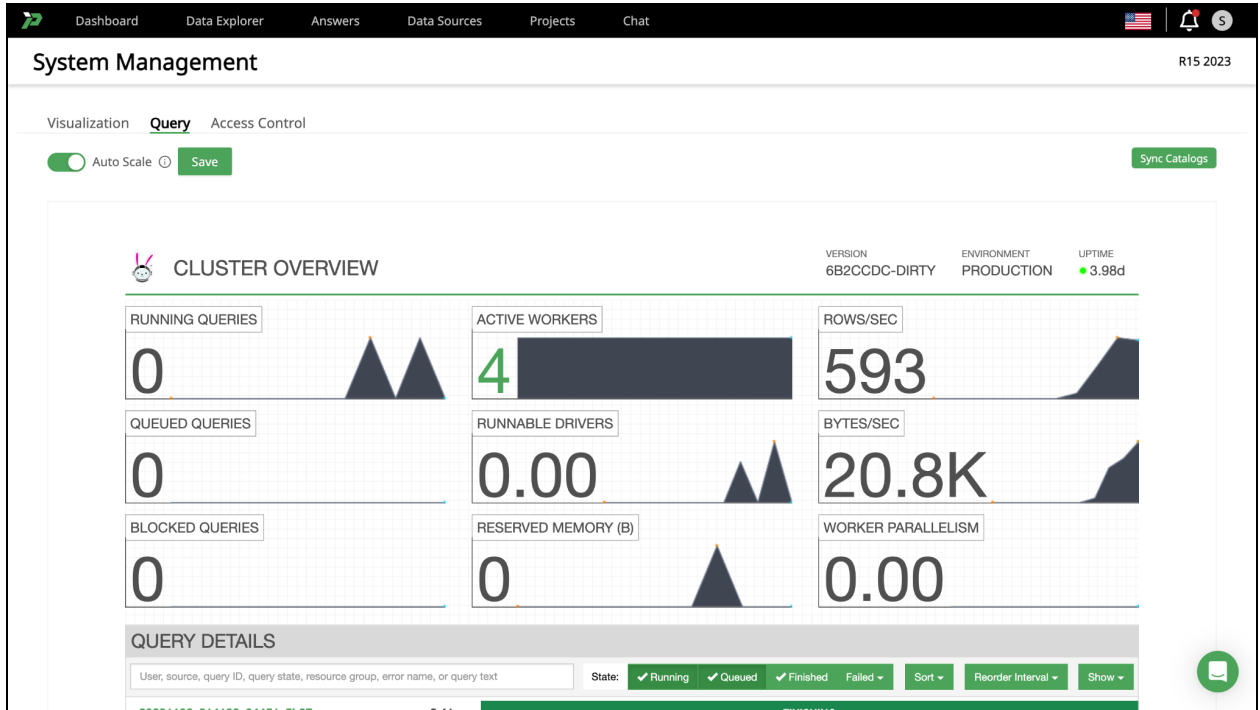
Cancel Edit Datamap 

## System Management

The System Management page houses realtime information on some of the major components within Promethium - Redash, Trino and Ranger. Additional component summary pages will be added in subsequent releases.

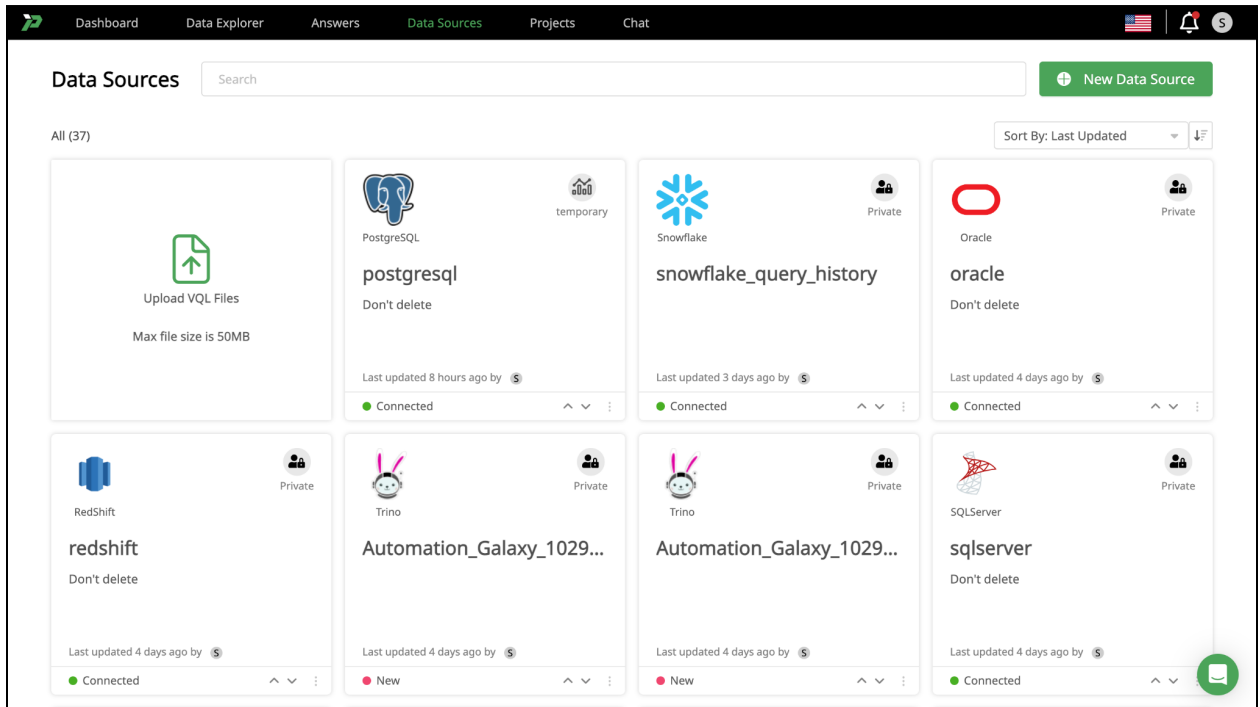
The data presented is mostly informational but can be used to diagnose performance issues, see real time environment statistics and even restart services.

To navigate to System Management click on your initial or avatar on the top navigation bar. Select System Management from the menu. Select the major system component of interest from the tabbed list at the top of the page.

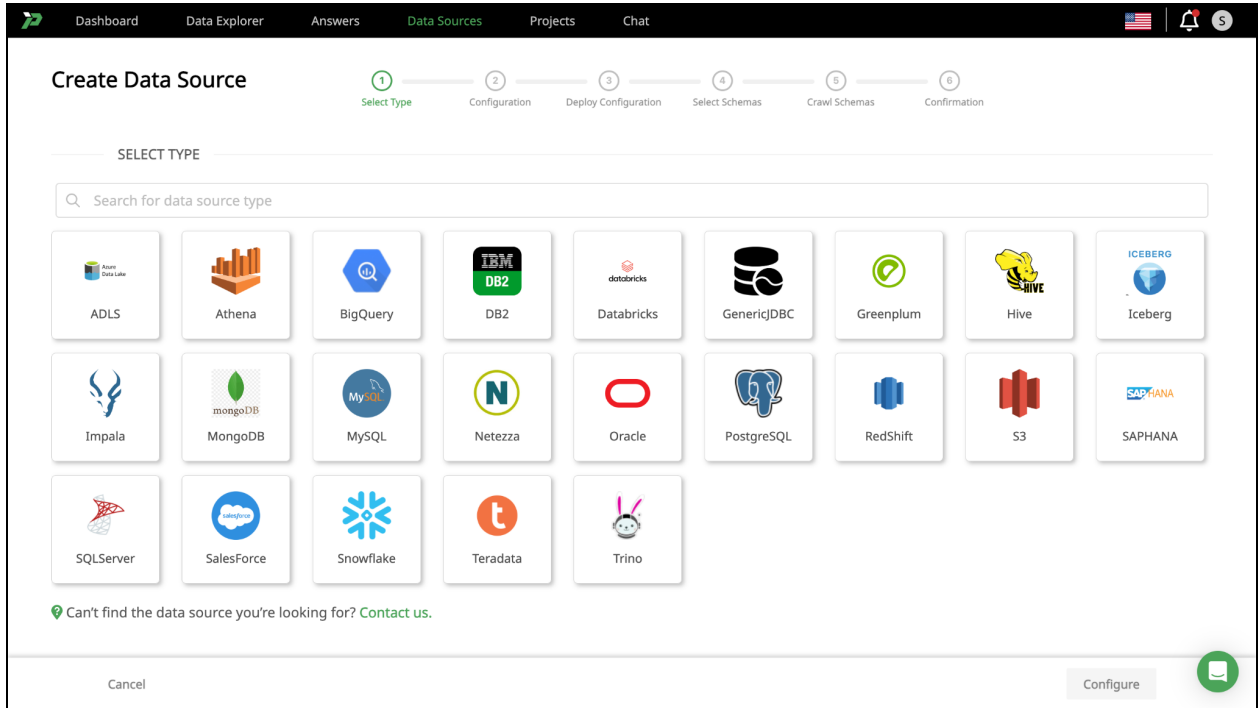


## Data Sources

Start by navigating to Data Sources from the menu. The Data Sources page is displayed.



To add a new Data Source click the + New Data Source button.



Choose a data source type from the tiles presented, or search for a specific type using the free text search box. If you choose to search for a data source, each character typed will filter the available options.

Detailed Data Source Instructions exist for the following data sources

- Redshift
- Teradata
- Athena
- Snowflake
- PostgreSQL
- Oracle
- Trino
- MS SQL Server
- Impala
- Greenplum
- AWS S3

**Create Data Source**

1 Select Type 2 Configuration 3 Deploy Configuration 4 Select Schemas 5 Crawl Schemas 6 Confirmation

**CONFIGURATION**

\* Data Source Name

Description

\* Host Name

DB Port 1433

\* User Name

Password

TLS Encrypted

\* Database Name

Autotag comments as tags?

**Getting Connected**

Ensure Promethium has access to your Database. Make sure you allow inbound traffic from these IPs in your firewall and include it in any database grants.

34.171.42.71

[Need help?](#)

Cancel Previous Done Next: Deploy

Configure your chosen data source by completing the required fields. Required fields are indicated by the presence of a red asterisk to the left of the field. Optional Advanced Parameters, if available for your chosen data source, can be entered by clicking on the Advanced Parameters > link at the bottom of the form. When you are satisfied with your configuration details click the green Next: Deploy text at the bottom right of the page.

**Create Data Source**

1 Select Type 2 Configuration 3 Deploy Configuration 4 Select Schemas 5 Crawl Schemas 6 Confirmation

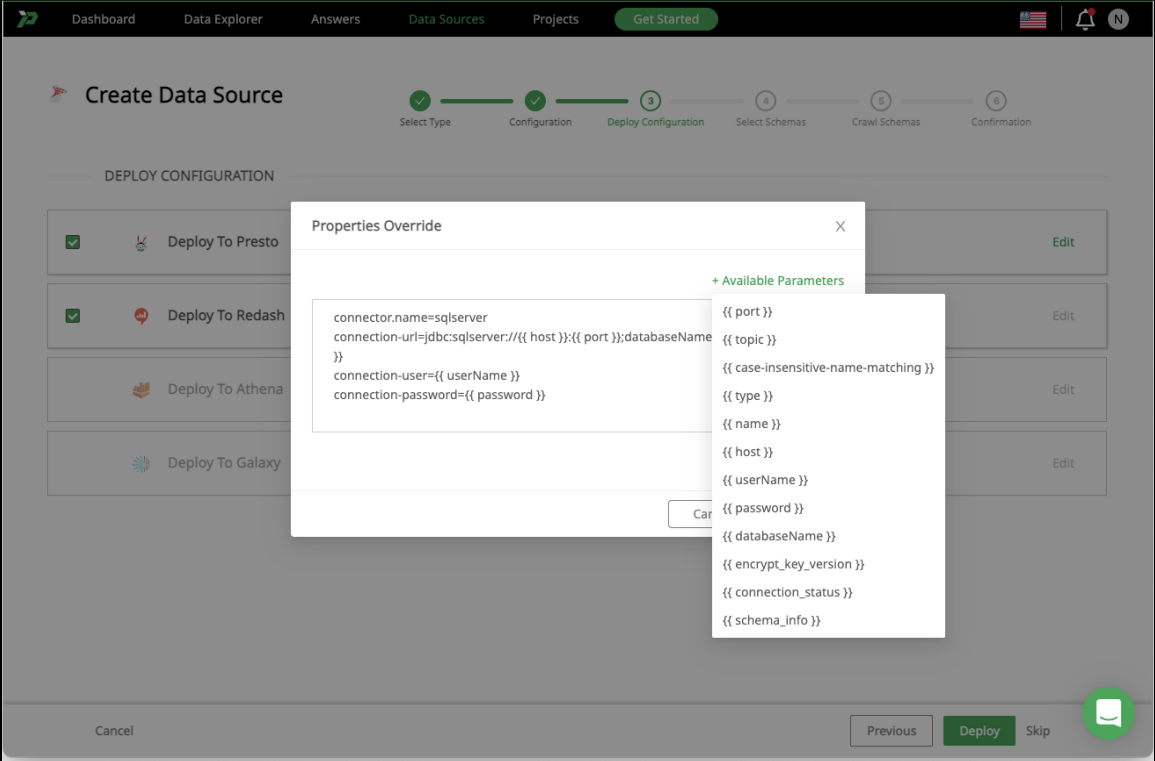
**DEPLOY CONFIGURATION**

<input checked="" type="checkbox"/>	Deploy To Presto	Deployment Status: Not Started	<a href="#">Edit</a>
<input checked="" type="checkbox"/>	Deploy To Redash	Deployment Status: Not Started	<a href="#">Edit</a>
<input type="checkbox"/>	Deploy To Athena	Coming Soon	<a href="#">Edit</a>
<input type="checkbox"/>	Deploy To Galaxy	Coming Soon	<a href="#">Edit</a>

Cancel Previous **Deploy** Skip

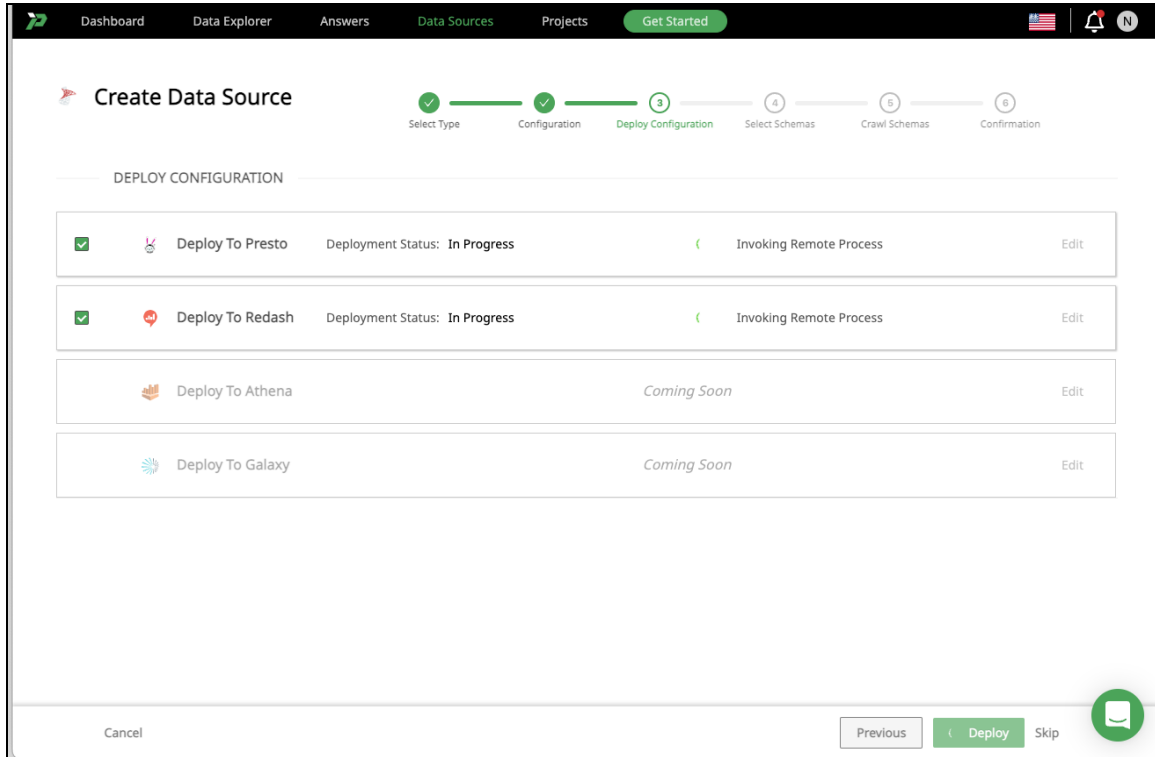
To use the data source, we must deploy the configuration to one or more query engines. You can select each that you wish to use.

The default connector parameters required to configure access will be inferred from your configuration on the previous screen, however in the event that you need to modify or add additional parameters you can click Edit next to the query engine and modify the connector.

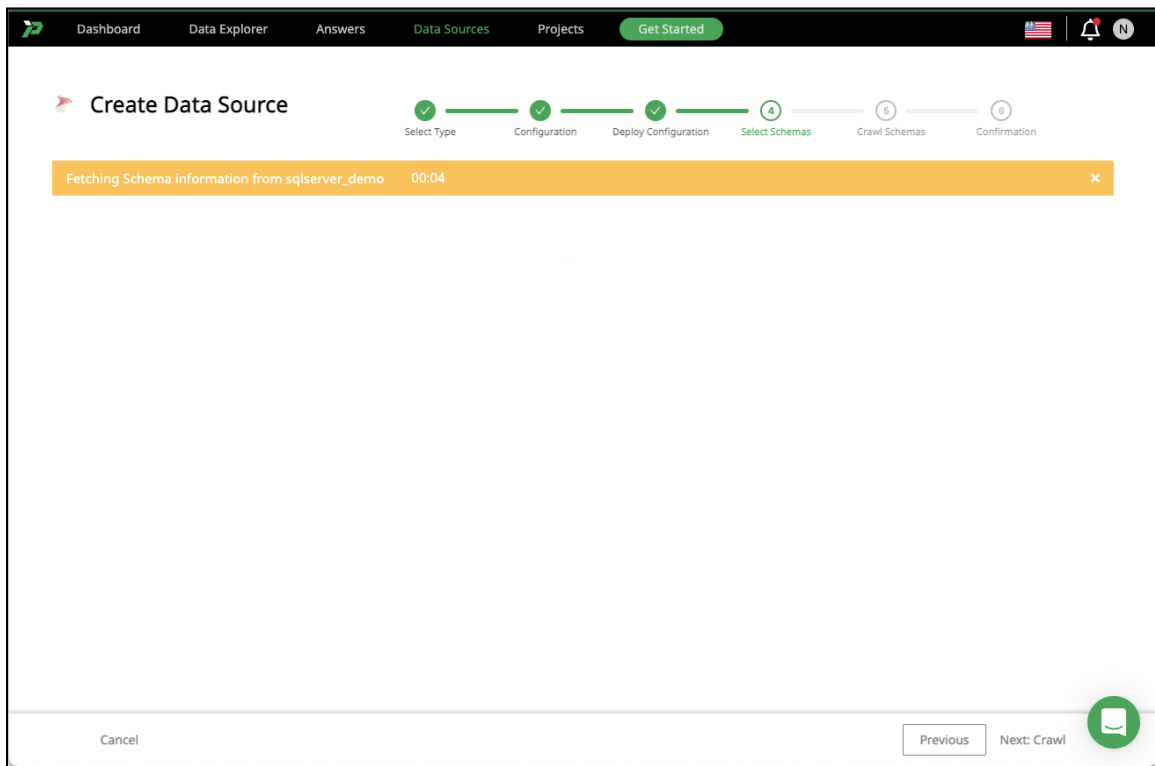


When you have completed modifications and selected your query engines, click the green Deploy button at the bottom right of the screen.





A status will read Invoking Remote Process next to each selected query engine. The deployment will take up to 2 minutes.



When completed a message will appear informing you that that schema information for your chosen database is being fetched.

**Create Data Source**

Progress: Select Type (✓) Configuration (✓) Deploy Configuration (✓) **Select Schemas (4)** Crawl Schemas (5) Confirmation (6)

SELECT SCHEMA FOR CRAWLING

- db\_denydatawriter 0 Tables
- sales\_publish 23 Tables
- db\_ddladmin 0 Tables
- dbo 50 Tables
- DB\_CRAWLER\_IT 1 Tables
- sales 15 Tables
- db\_datareader 0 Tables
- dbo\_sales 1 Tables
- db\_datawriter 0 Tables
- willowred 10 Tables
- db\_owner 0 Tables
- production 4 Tables
- db\_denydatareader 0 Tables
- cdmDatabaseSchema 44 Tables
- saleslt 13 Tables
- db\_backupoperator 0 Tables
- db\_securityadmin 0 Tables
- guest 0 Tables
- db\_accessadmin 0 Tables

Cancel Previous Next: Crawl

You can now select the schemas of interest for crawling. In the example above, the schema 'sales' has been selected. To continue select the green text Next: Crawl at the bottom right of the screen.

**Create Data Source**

Progress: Select Type (✓) Configuration (✓) Deploy Configuration (✓) Select Schemas (✓) **Crawl Schemas (5)** Confirmation (6)

CRAWL SCHEMA Crawl Options

Catalog Name	Schema Name	Status	Tables		
			Total Count	Retrieved Count	Error Count
promethium	db_denydatawriter	Skipped	0	0	0
promethium	sales_publish	Skipped	23	0	0
promethium	db_ddladmin	Skipped	0	0	0
promethium	dbo	Skipped	50	0	0
promethium	DB_CRAWLER_IT	Skipped	1	0	0
promethium	sales	Retrieved ✓	15	15	0
promethium	db_datareader	Skipped	0	0	0
promethium	dbo_sales	Skipped	1	0	0
promethium	db_datawriter	Skipped	0	0	0

Cancel Previous Confirm

Your selected schemas will be crawled and the page will refresh to show a confirmation of the data source, schemas and other table stats. You can either click the green Done button at the bottom right or take action immediately to view your new data within Data Explorer or create a Project.

**Create Data Source**

Progress: Select Type ✓, Configuration ✓, Deploy Configuration ✓, Select Schemas ✓, Crawl Schemas ✓, Confirmation 6

CONFIRMATION

Data Source Status	Data Source Name	Data Source Type	Schema(s) Crawled	Schema(s) skipped	Table(s) Retrieved	Table(s) Failed	Size of Metadata Crawled
Connected	sqlserver_demo	SQLServer	1	18	15	0	0

Buttons: View in Data Explorer, Create Project from Data Source

Bottom: Cancel, Previous, Done, Chat icon

---

For speed and security Promethium only stores metadata, it does not read or store any actual data.

---

### Redshift

The Redshift connector allows data to be cataloged, queried, transformed and to create tables in Redshift. This can be used to quickly and easily join data between different systems like Redshift and Hive, or between different Redshift instances.

### Connect Redshift

Connecting to Redshift is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Redshift and enter the information for your Redshift.

\*

\*

\*

\*

\*

\*

**Advanced Parameters >**

Redshift connection details can be case-sensitive. Ensure that data is entered with the correct case for your Redshift.

Field	Description
Data Source Name	Give the Redshift connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Host Name	Enter the host name for your Redshift database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your Redshift database.
User Name	Enter the username associated with your Redshift account.
Password	Enter the password associated with your Redshift account.
Database Name	Enter the database containing the data you want to retrieve.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Redshift environment, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Redshift environment.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
	1000	redshift	customer_demo	covid_data_world		9 hours ago	33728	N/A
	1000	redshift	customer_demo	dim_agent		18 hours ago	775809	281
	0	redshift	customer_demo_p...	ravi_datamap_1698605880650		4 days ago	0	N/A
	500	redshift	customer_demo_p...	revenue_subscription_by_plan_...		4 days ago	1	N/A
	500	redshift	customer_demo	stg_customers		4 days ago	2	N/A
	502	redshift	customer_demo	support_datamap_1698576514053		4 days ago	0	N/A
	663	redshift	customer_demo	orders		4 days ago	677	99
	506	redshift	customer_demo	customers		4 days ago	23	100
	500	redshift	customer_demo	stg_payments		4 days ago	2	N/A

## FAQs

- Is my data moved or copied out of Redshift?
  - No. Your data stays in Redshift and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in Redshift or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Redshift connector is designed for all-sized Datasets.

## Teradata

The Teradata connector allows data to be cataloged, queried, transformed and to create tables in Teradata. This can be used to quickly and easily join data between different systems like Teradata and Hive, or between different Teradata instances.

### Connect Teradata

Connecting to Teradata is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Teradata and enter the information for your Teradata.

\* Data Source Name

Description

\* Host Name

\* DB Port

\* User Name

Password

\* Password

Data Source Topic

Private

Advanced Parameters >

Teradata connection details can be case-sensitive. Ensure that data is entered with the correct case for your Teradata environment.

Field	Description
Data Source Name	Give the Teradata connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Host Name	Enter the host name for your Teradata database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your Teradata database.
User Name	Enter the username associated with your Teradata account.
Password	Enter the password associated with your Teradata account.
Data Source Domain	Optional. Categorize the Teradata connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Teradata, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Teradata database.

The screenshot shows the Data Explorer interface with a table of data items. The table has the following columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. There are two rows of data.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
	520 @	Kronos	pm61data	KronosReportMarch	S	6 days ago	81	N/A
	501 @	teradata_...	pm61data	KronosReportMarch	S	2 months ago	3	N/A

## FAQs

- Is my data moved or copied out of Teradata?
  - No. Your data stays in Teradata and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in Teradata or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Teradata connector is designed for all-sized Datasets.

## Athena

The Athena connector allows data to be cataloged, queried, transformed and more in Athena. This can be used to quickly and easily join data between different systems like Athena and Hive, or between different Athena instances.

## Connect Athena

Connecting to Athena is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Athena and enter the information for your Athena environment.

### CONFIGURATION

**\***

AWS Access Key

**\***

**\***

**\***

**\***

Data Source Topic

**Advanced Parameters** >

Athena connection details can be case-sensitive. Ensure that data is entered with the correct case for your Athena instance.

Field	Description
Data Source Name	Give the Athena Connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
AWS Access Key	Unique Key for AWS Athena
AWS Secret Key	Unique Secret for AWS Athena
S3 Output Location	Indicate the location where the query output files are downloaded. Athena will cache all query results in this location.
AWS Region	Enter the region endpoint of your Athena instance. To find the region code from a region name.
Schema Name	Enter the schema containing the data you want to retrieve.



Data Source Domain	Optional. Categorize the Athena connection. For example, Marketing.
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Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Athena, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Athena instance.

#### FAQs

- Is my data moved or copied?
  - No. Your data stays where it is and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, table or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Athena connector is designed for all-sized Datasets.

#### Snowflake

The Snowflake connector allows data to be cataloged, queried, transformed and to create tables in Snowflake Data Cloud. This can be used to quickly and easily join data between different systems like Snowflake and Hive, or between different Snowflake instances.

## Connect Snowflake

Connecting to Snowflake is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Snowflake and enter the information for your Snowflake environment.


### CONFIGURATION

\* Data Source Name

Description


\* Snowflake Account Name

\* User Name

Password  

\* Warehouse

\* Database Name

Data Source Topic  

Advanced Parameters >

Snowflake connection details can be case sensitive. Ensure that data is entered with the correct case for your Snowflake.

Field	Description
Data Source Name	Give the Snowflake connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Snowflake Account Name	Enter the account name for your Snowflake account.
User Name	Enter the username associated with your Snowflake account.
Password	Enter the password associated with your Snowflake account.
Warehouse	Enter the warehouse containing the data you want to retrieve.

Database Name	Enter the database containing the data you want to retrieve.
Data Source Domain	Optional. Categorize the Snowflake connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Snowflake, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Snowflake Data Cloud.

The screenshot shows the Snowflake Data Explorer interface. At the top, there's a navigation bar with 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. Below this, the 'Data Explorer' section is active, featuring a search bar and a 'New Datamap' button. A filter menu is open, showing 'All Items', 'Tables', 'Views', 'Datamaps', and 'Procedures'. Below the filter menu, there's a table listing cataloged data items. The table has columns for Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The data items listed are:

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
1009	1009	snowflake...	CUSTOMER_DEMO	CUSTOMERS	S	4 days ago	25	100
1000	1000	snowflake...	CUSTOMER_DEMO	TIMESTAMP_LTZTEST	S	4 days ago	8693	6001.2K
549	549	snowflake...	CUSTOMER_DEMO	DIM_AGENT	S	4 days ago	198	281
538	538	snowflake...	CUSTOMER_DEMO	DIM_PLAN	S	4 days ago	154	879
518	518	snowflake...	CUSTOMER_DEMO	AUTOSALES_COUNTRY_CONTINENT	S	4 days ago	72	3.5K
510	510	snowflake...	CUSTOMER_DEMO	AUTOMOTIVE_SALES_BY_COUNTRY	S	4 days ago	41	126
508	508	snowflake...	CUSTOMER_DEMO	DEMO	S	4 days ago	31	1
507	507	snowflake...	CUSTOMER_DEMO	RAW_PAYMENTS	S	4 days ago	27	113
502	502	snowflake...	CUSTOMER_DEMO	TRINO_LOOK_SNOWFLAKE_MQT	S	4 days ago	9	0

## FAQs

- Is my data moved or copied out of Snowflake?
  - No. Your data stays in Snowflake and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in Snowflake or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Snowflake connector is designed for all-sized Datasets.

## PostgreSQL

The PostgreSQL connector allows data to be cataloged, queried, transformed and to create tables in PostgreSQL. This can be used to quickly and easily join data between different systems like PostgreSQL and Hive, or between different PostgreSQL instances.

## Connect PostgreSQL

Connecting to PostgreSQL is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select PostgreSQL and enter the information for your PostgreSQL environment.

### CONFIGURATION

\* Data Source Name

Description

\* Host Name

DB Port

\* User Name

Password

\* Database Name

Data Source Topic

Advanced Parameters >

PostgreSQL connection details can be case sensitive. Ensure that data is entered with the correct case for your PostgreSQL instance.

Field	Description
Data Source Name	Give the PostgreSQL connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Host Name	Enter the host name for your PostgreSQL database. For example: <a href="#">db.company.com</a>
DB Port	Enter the port number for your PostgreSQL database.
User Name	Enter the username associated with your PostgreSQL account.
Password	Enter the password associated with your PostgreSQL account.

Database Name	Enter the database containing the data you want to retrieve.
Data Source Domain	Optional. Categorize the PostgreSQL connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your PostgreSQL, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your PostgreSQL environment.

The screenshot shows the Data Explorer interface with a table of cataloged data sources. The table has the following columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The data rows are as follows:

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
	0	postgresql	promethium	support_datamap_1698967713805	S	26 minutes ago	0	N/A
	505	postgresql	customer_demo_...	support_datamap_1698923113903	S	13 hours ago	0	N/A
	502	postgresql	customer_demo_...	support_datamap_1698922966425	S	13 hours ago	0	N/A
	502	postgresql	customer_demo_...	support_datamap_1698922889713	S	13 hours ago	0	N/A
	502	postgresql	customer_demo	support_datamap_1698920637498	S	14 hours ago	0	N/A
	1054	postgresql	customer_demo	orders	S	a day ago	58	99
	1000	postgresql	customer_demo	customers	S	a day ago	51771	100
	502	postgresql	customer_demo	stg_customers	S	a day ago	8	0
	0	postgresql	customer_demo	stg_orders	S	a day ago	0	0

## FAQs

- Is my data moved or copied out of PostgreSQL?
  - No. Your data stays in PostgreSQL and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in PostgreSQL or as a dbt model.
- Is this a Production-level connector?
  - Yes. The PostgreSQL connector is designed for all-sized Datasets.

## Oracle

The Oracle connector allows data to be cataloged, queried, transformed and to create tables in Oracle. This can be used to quickly and easily join data between different systems like Oracle and Hive, or between different Oracle instances.

The Oracle connector is available for all Prometheus editions, including Free, Professional, Premium and Enterprise.

### Connect Oracle

Connecting to Oracle is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Oracle and enter the information for your Oracle environment.

#### CONFIGURATION

\* Data Source Name

Description

\* Host Name

\* DB Port

\* SID

\* User Name

\* Password

Data Source Topic

**Advanced Parameters** >

Oracle connection details can be case-sensitive. Ensure that data is entered with the correct case for your Oracle instance.

Field	Description
Data Source Name	Give the Oracle connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Host Name	Enter the host name for your Oracle database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your Oracle database.

SID	A unique name that uniquely identifies the database instance.
User Name	Enter the username associated with your Oracle account.
Password	Enter the password associated with your Oracle account.
Data Source Domain	Optional. Categorize the Oracle connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Oracle, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Oracle database.

The screenshot shows the Data Explorer interface with a table of database items. The table has the following columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The table contains 10 rows of data, including items like support\_datamap\_1698920971360, MASTER\_PLAN\_TABLE\_WDATES, SALES\_HISTORY, and various support\_datamap entries.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
502	oracle	CUSTOMER_DEMO	support_datamap_1698920971360	S	13 hours ago	0	N/A	
1530	oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES	S	a day ago	911829	1K	
1000	oracle	CUSTOMER_DEMO	SALES_HISTORY	S	2 days ago	34824	2935.9K	
0	oracle	CUSTOMER_DEM...	SUPPORT_DATAMAP_1698682579...	S	3 days ago	0	N/A	
500	oracle	CUSTOMER_DEM...	SUPPORT_DATAMAP_1698681038...	S	3 days ago	1	N/A	
0	oracle	CUSTOMER_DEM...	SUPPORT_DATAMAP_1698623431...	S	4 days ago	0	N/A	
0	oracle	CUSTOMER_DEM...	SUPPORT_DATAMAP_1698623150...	S	4 days ago	0	N/A	
0	oracle	CUSTOMER_DEM...	support_datamap_1698573032500	S	5 days ago	0	N/A	
502	oracle	CUSTOMER_DEM...	support_datamap_1698570284697	S	5 days ago	0	N/A	

## FAQs

- Is my data moved or copied out of Oracle?
  - No. Your data stays in Oracle and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in Oracle or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Oracle connector is designed for all-sized Datasets.

## Trino

The connector for Trino allows data sources connected to Trino to be cataloged, queried, transformed and more. This can be used to quickly and easily join data between different systems.

Note: PrestoSQL was renamed Trino in December 2020.

### Connect Trino

Connecting to Trino is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Presto and enter the information for your Trino environment.

#### CONFIGURATION

\*

\*

\*   
8080

Password

\*

\*

**Advanced Parameters >**

Trino connection details can be case sensitive. Ensure that data is entered with the correct case for your Trino environment.

Field	Description
Data Source Name	Give the PrestoSQL Trino connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.



Host Name	Enter the host name for your PrestoSQL Trino database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your PrestoSQL Trino.
User Name	Enter the username associated with your PrestoSQL Trino account.
Password	Enter the password associated with your PostgreSQL account.
Catalog Name	Enter the PrestoSQL Trino catalog name.
Schema Name	Enter the PrestoSQL Trino schema name.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Trino environment, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Trino environment.

The screenshot shows the Data Explorer interface with a table of 10 items. The table has the following columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The items listed are:

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
500	Promethi...	promethium	new_model_dnnf4fb1	S	2 months ago	2	N/A	
500	Promethi...	promethium	new_model_1h4tg6un	S	2 months ago	2	N/A	
500	Promethi...	promethium	new_model_kq1w5oom	S	2 months ago	2	N/A	
500	Promethi...	promethium	new_model_qt0579il	S	2 months ago	2	N/A	
500	Promethi...	promethium	new_model_xmscbgef	S	2 months ago	2	N/A	
500	Promethi...	default	new_model_8mq8f6ty	S	2 months ago	2	N/A	
0	Promethi...	default	new_model_qul64knz	S	2 months ago	0	N/A	
500	Promethi...	promethium	new_model_y8031zsc	S	2 months ago	2	N/A	
0	Promethi...	default	new_model_zp1xjgy	S	3 months ago	0	N/A	

## FAQs

- Is my data moved or copied?
  - No. Your data stays where it is and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table or as a dbt model.
- Is this a Production-level connector?
  - Yes. The PrestoSQL Trino connector is designed for all-sized Datasets.

## MS SQL Server

The MS SQL Server connector allows data to be cataloged, queried, transformed and to create tables in MS SQL Server. This can be used to quickly and easily join data between different systems like MS SQL Server and Hive, or between different MS SQL Server instances.

### Connect MS SQL Server

Connecting to MS SQL Server is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select MS SQL Server and enter the information for your MS SQL Server.

\* Data Source Name

Description

\* Host Name

DB Port

\* User Name

\* Password

\* Database Name

Data Source Topic

**Advanced Parameters >**

MS SQL Server connection details can be case-sensitive. Ensure that data is entered with the correct case for your MS SQL Server.

Field	Description
Data Source Name	Give the MS SQL Server connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.

Host Name	Enter the host name for your MS SQL Server database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your MS SQL Server database.
User Name	Enter the username associated with your MS SQL Server account.
Password	Enter the password associated with your MS SQL Server account.
Database Name	Enter the database containing the data you want to retrieve.
Data Source Domain	Optional. Categorize the MS SQL Server connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your MS SQL Server, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your MS SQL Server.

The screenshot shows the Data Explorer interface with a search bar and a table of data sources. The table has columns for Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The data is sorted by Last Updated.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
0	0	sqlserver	customer_demo_...	support_datamap_169875929032...	S	a day ago	0	N/A
0	0	sqlserver	promethium	support_datamap_1698759271568	S	2 days ago	0	N/A
501	0	sqlserver2	customer_demo_...	average_revenue_by_agent_by_di...		3 days ago	3	N/A
502	0	sqlserver	customer_demo	orders	S	5 days ago	8	99
500	0	sqlserver	customer_demo	customers	S	5 days ago	1	100
0	0	sqlserver	customer_demo	stg_customers	S	5 days ago	0	N/A
0	0	sqlserver	customer_demo	stg_orders	S	5 days ago	0	N/A
0	0	sqlserver	customer_demo	stg_payments	S	5 days ago	0	N/A
0	0	sqlserver	customer_demo	raw_payments	S	5 days ago	0	113

## FAQs

- Is my data moved or copied out of MS SQL Server?
  - No. Your data stays in MS SQL Server and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in MS SQL Server or as a dbt model.
- Is this a Production-level connector?
  - Yes. The MS SQL Server connector is designed for all-sized Datasets.

## Impala

The Impala connector allows data to be cataloged, queried and transformed. This can be used to quickly and easily join data between different systems like Impala and HDFS, or between different Impala instances.

### Connect Impala

Connecting to Impala is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Impala, select New connection, and enter the information for your Impala instance.

#### CONFIGURATION

\* Data Source Name

Description

\* Host Name

DB Port

User Name

Password

\* Database Name

Use HTTP Transport

Timeout

Http Path

Auth Mechanism

Use SSL

Data Source Topic

**Advanced Parameters >**

Impala connection details can be case-sensitive. Ensure that data is entered with the correct case for your Impala environment.

Field	Description
Data Source Name	Give the Impala connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Hostname	The name of the server where your data is located.
DB Port	Enter the port number for your Impala.
Username	Enter the username associated with your Impala account.
Password	Enter the password associated with your Impala account.
Database Name	Enter the database containing the data you want to retrieve.
Use HTTP Transport	Select this checkbox to use HTTP for your Impala connection.
Use secure sockets layer (SSL)	Select this checkbox to connect using SSL.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Impala environment, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Impala data source.

The screenshot shows the Data Explorer interface with a table of cataloged data. The table has the following columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The data is sorted by Last Updated.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
	561	impala	promethium	employee	S	8 months ago	245	N/A
	500	impala	promethium	customer_info	S	8 months ago	2	N/A
	500	impala	promethium	automotive_sales_us_canada	S	8 months ago	1	N/A
	0	impala	promethium	company_info	S	8 months ago	0	N/A
	0	impala	promethium	cqaiser_datamap_1658225330484	S	8 months ago	0	N/A
	0	impala	promethium	please_dont_delete_this_datamap_i_...	S	8 months ago	0	N/A
	0	impala	promethium	support_datamap_1656027729676	S	8 months ago	0	N/A
	0	impala	promethium	support_datamap_1658315555369	S	8 months ago	0	N/A
	0	impala	promethium	support_datamap_1658315627207	S	8 months ago	0	N/A

## FAQs

- Is my data moved or copied?
  - No. Your data stays where it is and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Impala connector is designed for all-sized Datasets.

## Greenplum

The Greenplum connector allows data to be cataloged, queried, transformed and to create tables in Greenplum. This can be used to quickly and easily join data between different systems like Greenplum and Hive, or between different Greenplum instances.

## Connect Greenplum

Connecting to Greenplum is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select Greenplum and enter the information for your Greenplum.

\*

\*

\*

\*

Password

\*

Data Source Topic

**Advanced Parameters >**

Greenplum connection details can be case-sensitive. Ensure that data is entered with the correct case for your Greenplum environment.

Field	Description
Data Source Name	Give the Greenplum connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
Host Name	Enter the host name for your Greenplum database. For example: <a href="http://db.company.com">db.company.com</a>
DB Port	Enter the port number for your Greenplum database.
User Name	Enter the username associated with your Greenplum account.
Password	Enter the password associated with your Greenplum account.
Database Name	Enter the database containing the data you want to retrieve.
Data Source Domain	Optional. Categorize the Greenplum connection. For example, Marketing.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your Greenplum, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your Greenplum database.

#### FAQs

- Is my data moved or copied out of Greenplum?
  - No. Your data stays in Greenplum and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table in Greenplum or as a dbt model.
- Is this a Production-level connector?
  - Yes. The Greenplum connector is designed for all-sized Datasets.

#### AWS S3

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Promethium needs read access to the S3 bucket from Intelligent Edge (IE). This should be setup and tested after installing IE in your Cloud. Contact us for more information or assistance.

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In order for Promethium to discover your data in S3, the Promethium Intelligent Edge (IE) needs to have access to it:

1. Navigate to your Bucket on S3, then make sure it is accessible from outside by changing the "Block all public access" to off (click on the Edit button on the right side to change this, as shown below in the screenshot):

2. Go to Bucket Policy
3. In order to provide this access, you need to add the following JSON with the correct values:

Amazon S3 > s3mediadata

### s3mediadata

Overview Properties **Bucket Policy** Access points

Block public access Access Control List **Bucket Policy** CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Amazon S3 > s3mediadata

### s3mediadata

Overview Properties Permissions **Management** Access points

Block public access Access Control List **Bucket Policy** CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

**Block all public access**  Off Edit

- Block public access to buckets and objects granted through *new* access control lists (ACLs)  Off
- Block public access to buckets and objects granted through *any* access control lists (ACLs)  Off
- Block public access to buckets and objects granted through *new* public bucket or access point policies  Off
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies  Off

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AclForTenantGlue",
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::{{ IE's AWS Account ID }}:root"
      },
    },
  ],
}
```



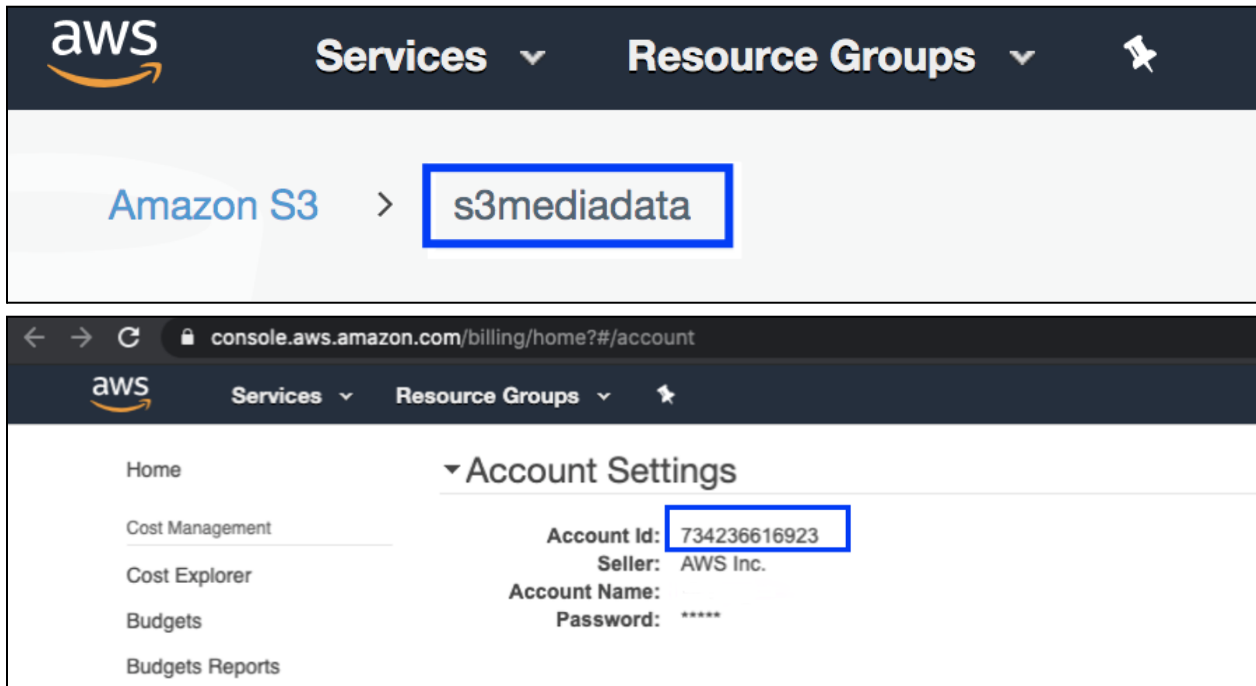
```

"Action": [
  "s3:Get*",
  "s3:Put*",
  "s3:ListBucket",
  "s3:ListBucketMultipartUploads",
  "s3:ListBucketVersions",
  "s3:ListMultipartUploadParts"
],
"Resource": [
  "arn:aws:s3:::{{ Customer's bucket name }}",
  "arn:aws:s3:::{{ Customer's bucket name }}/*"
]
}
]
}

```

The items highlighted in bold text are:

1. IE's AWS Account Id: The AWS Account ID where the Intelligent Edge is installed. Find it in the admin side of your AWS account, which should be in this URL: <https://console.aws.amazon.com/billing/home?#/account>
2. Customer's bucket name: The name of the bucket containing the data. In the example below, "s3mediadata"



Once these JSON with the correct values have been added, you can test access using the command line from the machine where Intelligent Edge is installed. \$\$\$

```

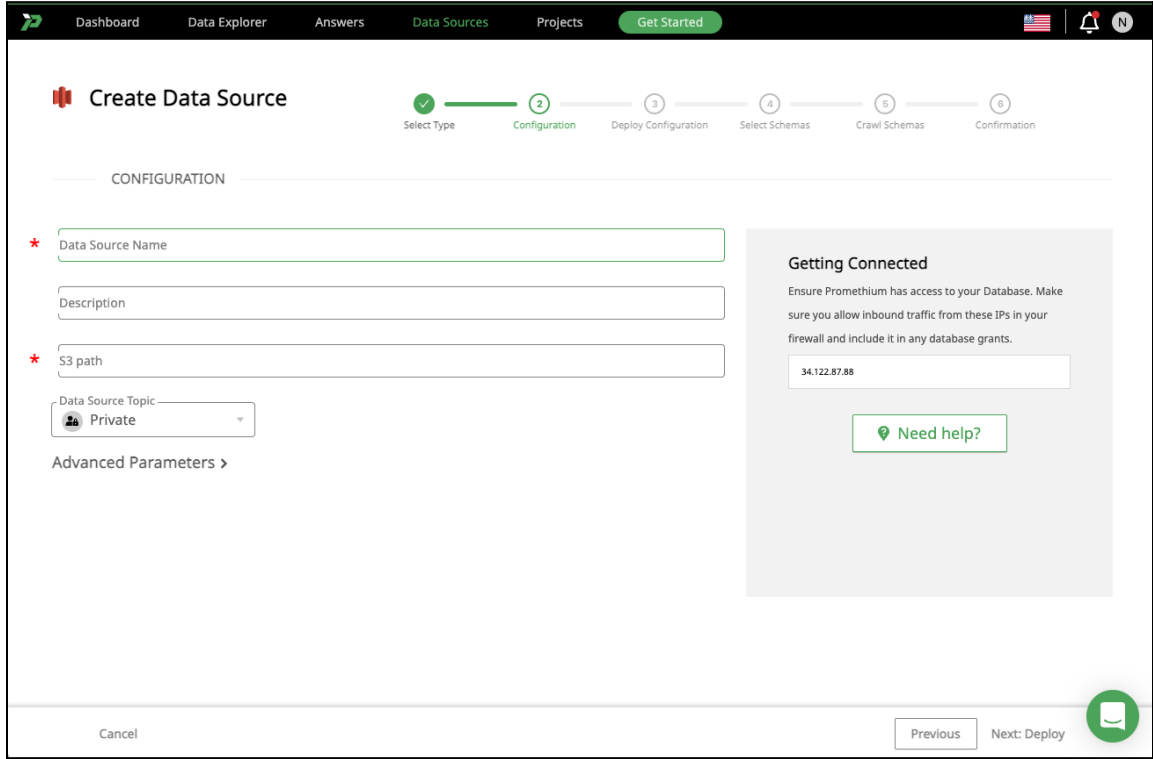
1. bash
Last login: Mon Aug 10 15:08:49 on ttys001
Antonios-MBP-2:~ antionielasnieves$ aws s3 ls s3://infawavedemo
2020-08-10 14:32:11          3992 Account.csv
Antonios-MBP-2:~ antionielasnieves$

```

An example is provided below.

**Connect S3**

Connecting to S3 is fast and easy. Simply click Data Sources from the menu, then click + New Data Source. Select S3 and enter the information for your AWS environment.

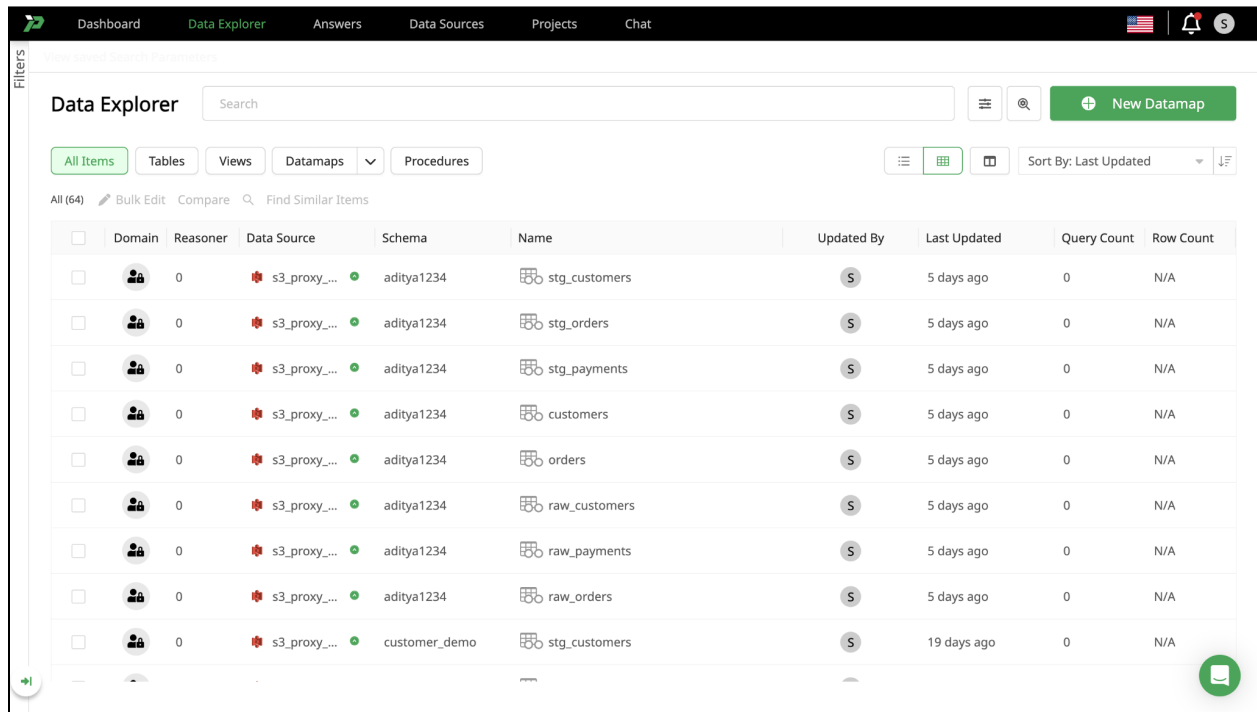


Trino connection details can be case sensitive. Ensure that data is entered with the correct case for your Trino environment.

Field	Description
Data Source Name	Give the AWS S3 connection a unique name for easy identification.
Description	Optional. A meaningful description for this connection.
S3 path	Enter the path to your s3 bucket.

Click the Connect button then select schemas. After successful connection and schema selection Promethium will automatically crawl and catalog data in your S3 environment, then make the data easily searchable and usable.

Click Data Explorer from the menu and begin exploring the data in your S3 environment.



## FAQs

- Is my data moved or copied?
  - No. Your data stays where it is and isn't moved to Promethium.
- What options are available for publishing datasets?
  - Datasets can be published as a view, as a table or as a dbt model.

## Data Explorer

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Data Explorer is the fast and easy way to explore data across distributed data sources.

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Use Data Explorer to find, tag and preview data. Open Data Explorer from the menu. The list of data sources and tables is displayed.

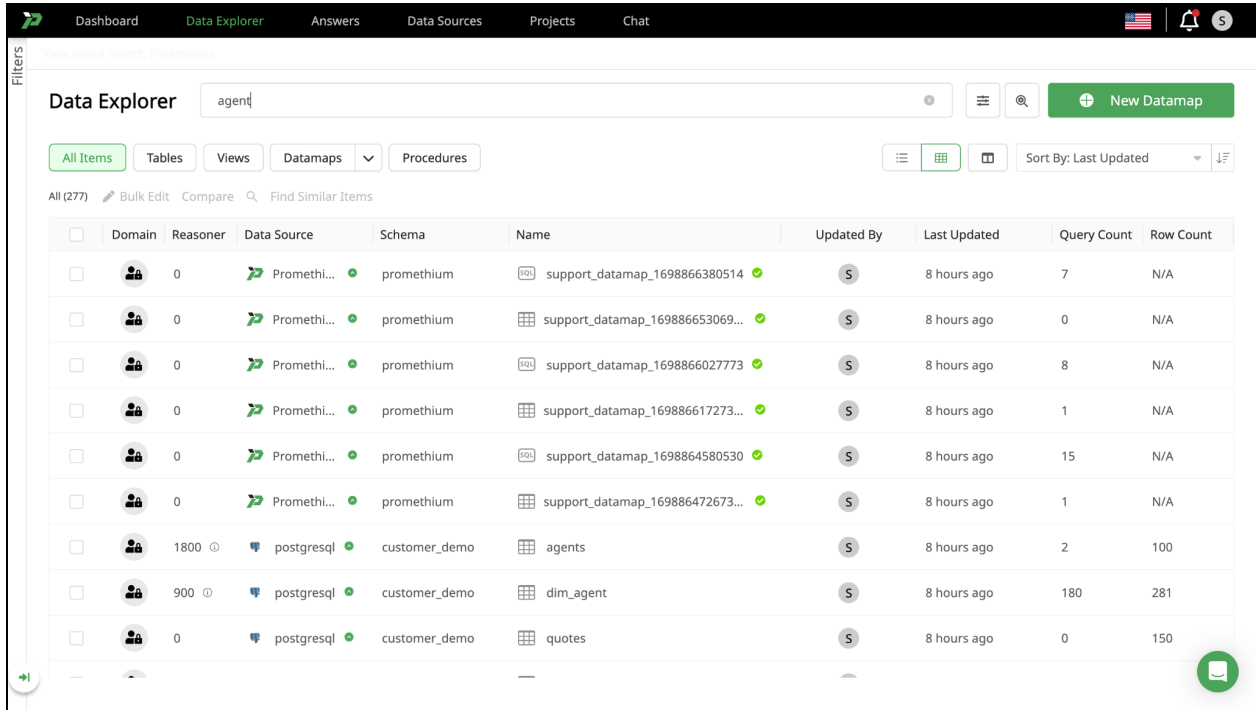
The screenshot shows the Data Explorer interface. On the left, there is a 'Filters' sidebar with categories: My Items, Favorites, Duplicates, Domains (17), Data Sources (18), Endorsements (3), Data Product Owner, and Subject Matter Expert. The main area is titled 'Data Explorer' and contains a search bar, a 'New Datamap' button, and filter tabs for 'All Items', 'Tables', 'Views', 'Datamaps', and 'Procedures'. Below the tabs, there are options for 'Bulk Edit', 'Compare', and 'Find Similar Items'. The main table displays columns for Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, and QI. The table lists several items, including support\_datamap\_1681256438224, support\_datamap\_1681312327568, support\_datamap\_1681313197382, tlog\_product\_plunames, dim\_channel, master\_plan\_table\_wdates, fact\_subscription\_activity, dim\_reasoncode, and dim\_agent.

A number of powerful result filters are present immediately above the table of results.

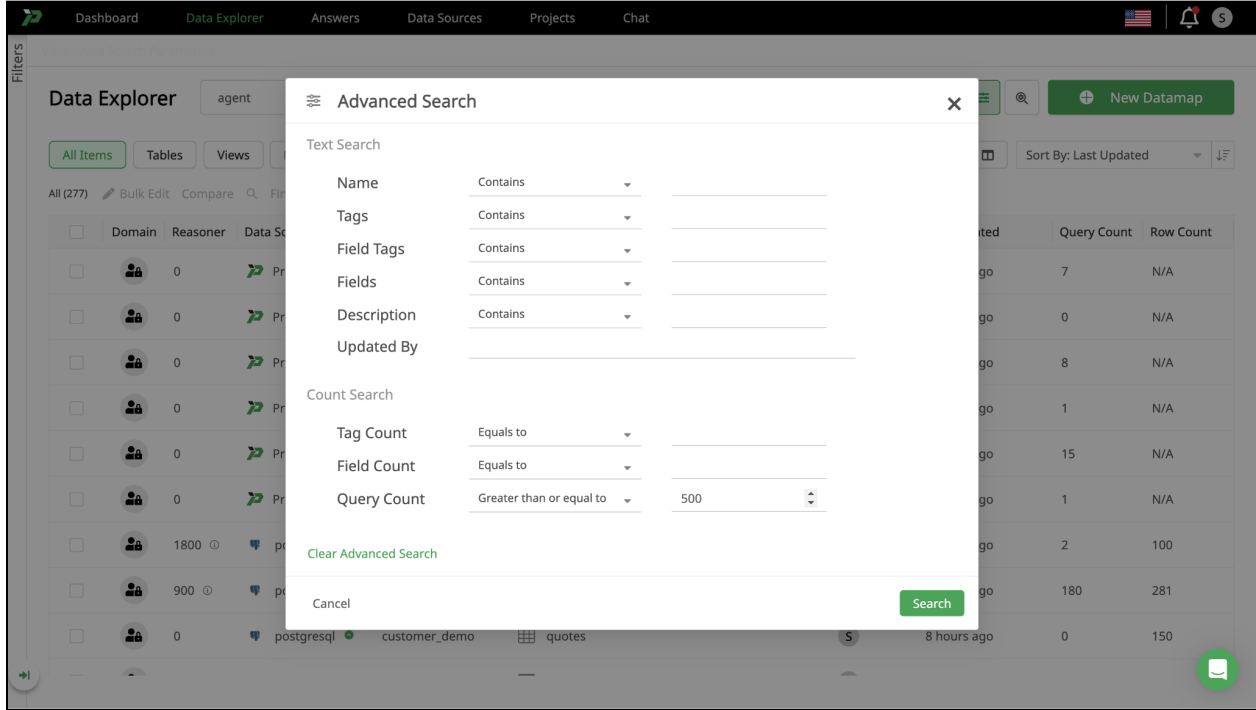
- **My Items** - Items that have been created by your user account.
- **Favorites** - Tables, views, and datamaps that are favorited marked by a yellow star.
- **Duplicates** - Any items that have been flagged as a copy.
- **Domains** - Selecting a specific domain or domains and the items associated.
- **Endorsements** - View items by endorsement statuses from “Endorsements,” “Warning,” and “Deprecation.”
- **Data Product Owner** - Filter items by specific data product owner.
- **Subject Matter Expert** - Filter by assigned SME.
- **All Items** - Default filter that shows all available tables, views, and datamaps.
- **Tables** - This filter selection only shows tables.
- **Views** - This filter selection only shows views.
- **Datamaps** - This filter shows only datamaps and can specify if the datamaps are “Published” or “In Progress” status.

You can combine one or all of these filters to rapidly narrow in on your required data.

You can use the search bar in conjunction with these filters, as desired, to search for data. Enter the search term in the search bar and click Search. The search results are displayed.



You can access our Advanced Search dialog by selecting the slider icon immediately to the right of the search box. This makes it easy to perform field specific text searches or even numeric count searches such as limiting the result set to those with a query count greater than or equal to 500.



To make the result set more readable, you can add or remove columns from the Data Explorer table with the column selector in the top right corner.

The screenshot shows the Data Explorer interface with a search for 'agent'. A dropdown menu is open over the 'Find Similar Items' button, listing various filters that can be used to find similar items. The table below shows the results of the search, including columns for Domain, Reasoner, Data Source, Schema, Name, Updated, Query Count, and Row Count.

Domain	Reasoner	Data Source	Schema	Name	Updated	Query Count	Row Count
	0	postgresql	customer_demo	fact_subscription_activity		783974	684
	900	redshift	customer_demo	dim_agent		772333	281
	0	oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES		907935	1K
	0	oracle	CUSTOMER_DEMO	FACT_SUBSCRIPTION_ACTIVITY		38931	314
	0	redshift	customer_demo	fact_subscription_activity		5175	684
	0	sqlserver	customer_demo	fact_subscription_activity		5374	959
	900	mysql	customer_demo	dim_agent		67654	281
	0	mysql	customer_demo	fact_subscription_activity		4312	681
	900	bq	pm61data	dim_agent	4 days ago	3310	281

To find a similar table, begin by selecting a table and then clicking “Find Similar Items.” The “Parent Item” is the originally selected table where you wish to find similar items, you can select a maximum of 4 items. Once you are satisfied with the selections made, click “Compare.” This view facilitates side-by-side comparison of up to four items, providing insights into each item's column and row count, associated database, schema, description, endorsements status, item

type, classified domain/subdomain, and the latest update date.

The screenshot shows the Data Explorer interface with a search for 'orders'. The 'Parent Item' table is selected, and a 'Compare Items' dialog is open, showing four items for comparison:

- orders** (postgresql | customer\_demo): Table | 9 Columns | 99 Rows | 0 Answers | Query count: 0 | Last Updated a day ago by S
- ORDERS** (snowflake2 | CUSTOMER\_DEMO): Table | 9 Columns | 99 Rows | 0 Answers | Query count: 0 | Last Updated 7 days ago by S
- orders** (Max\_redshift | customer\_demo): Table | 9 Columns | 99 Rows | 0 Answers | Query count: 0 | Last Updated a month ago by S
- orders** (postgres2 | customer\_demo): Table | 9 Columns | 99 Rows | 0 Answers | Query count: 0 | Last Updated 4 months ago by S

The 'Compare Items' dialog displays a detailed comparison table for the four items:

Item Details	orders (postgresql   customer_demo)	ORDERS (snowflake2   CUSTOMER_DEMO)	orders (Max_redshift   customer_demo)	orders (postgres2   customer_demo)
Type	TABLE	TABLE	TABLE	TABLE
Domain	Private	Private	Private	Private
Subdomain	-	-	-	-
Row #	99	99	99	99
Column #	9	9	9	9
Queries	0	0	0	0
Last Update	Last Updated a day ago by S	Last Updated 7 days ago by S	Last Updated a month ago by S	Last Updated 4 months ago by S

**Data Explorer** order

Sort By: Reasoner Score

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	QI
1662	postgres...	customer_demo	orders	S	a day ago	0	

Similar Items

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	QI
100	postgres2	customer_demo	orders	S	4 months ago	0	
100	sqlserver	customer_demo	orders	S	3 months ago	0	
100	sqlserver	cdmDatabaseSc...	orders	S	2 months ago	0	
100	snowflake	CUSTOMER_DE...	ORDERS	S	3 months ago	0	
100	redshift	customer_demo	orders	S	a month ago	0	
100	Max_red...	customer_demo	orders	S	a month ago	0	

## Filter and Sort Tables

To help find and explore the data available you can select from a number of Sort By refiners from the drop down at the top right. The button to the right of this selection field will invert the selected sort. e.g. Sort by Name from A-Z or Z-A.

**Data Explorer** agent

Sort By: Last Updated

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	QI
0	postgresql	customer_demo	fact_subscription_activity	S	8 hours ago		
900	redshift	customer_demo	dim_agent	S	8 hours ago		
0	oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES	S	8 hours ago		
0	oracle	CUSTOMER_DEMO	FACT_SUBSCRIPTION_ACTIVITY	S	4 days ago	38931 314	
0	redshift	customer_demo	fact_subscription_activity	S	4 days ago	5175 684	
0	sqlserver	customer_demo	fact_subscription_activity	S	4 days ago	5374 959	
900	mysql	customer_demo	dim_agent	S	4 days ago	67654 281	
0	mysql	customer_demo	fact_subscription_activity	S	4 days ago	4312 681	
900	bq	pm61data	dim_agent	S	4 days ago	3310 281	

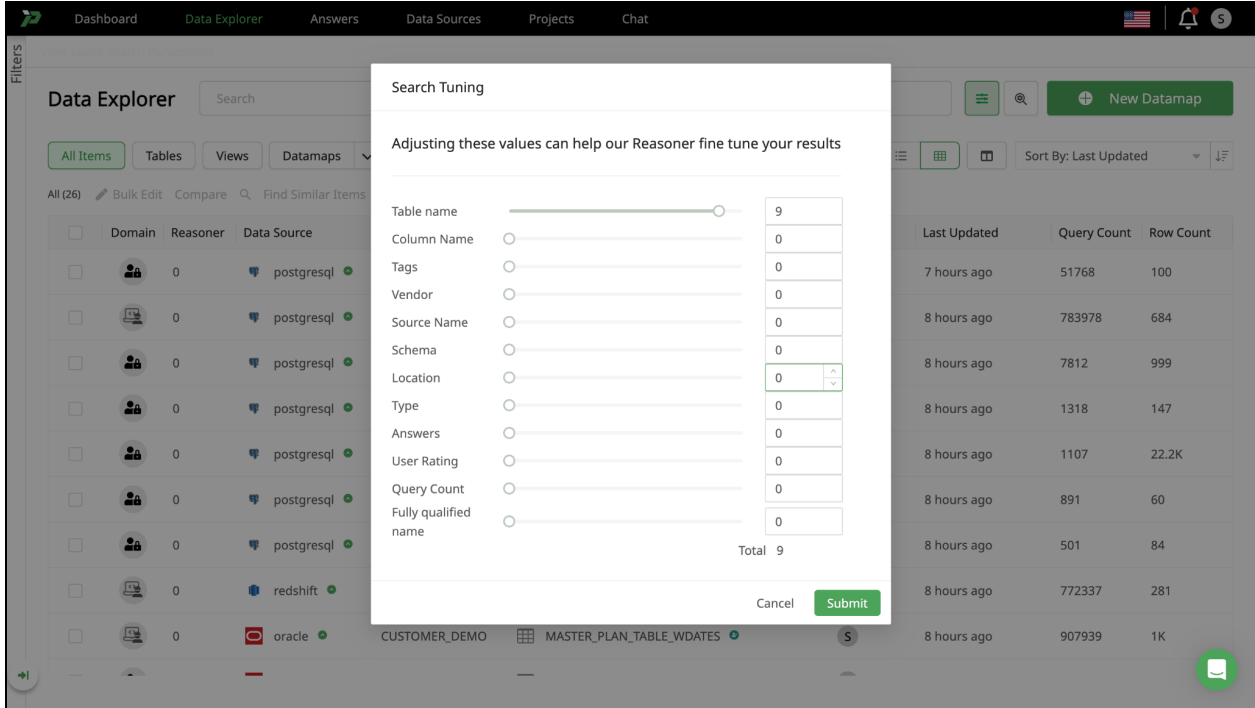
Sort By: Reasoner Score  
 Sort By: Name  
 Sort By: Last Updated  
 Sort By: Updated By  
 Sort By: Query Count  
 Sort By: Field Count  
 Sort By: Row Count  
 Sort By: Tag Count



Feature	Description
Reasoner™ Score	Reasoner™ uses machine intelligence to recommend the best match
Name	To help locate specific Table, Datamap or Views
Last Updated	Sort by the date of the last update
Updated By	Sort by the username who last updated
Query Count	Sort by the query volume (e.g. how popular or frequently a table, datamap or view is queried)
Field Count	Sort by the number of fields
Tag Count	Sort by the number of tags. The count of tags is an indicator of data usage and trust in the underlying data.

**Reasoner**

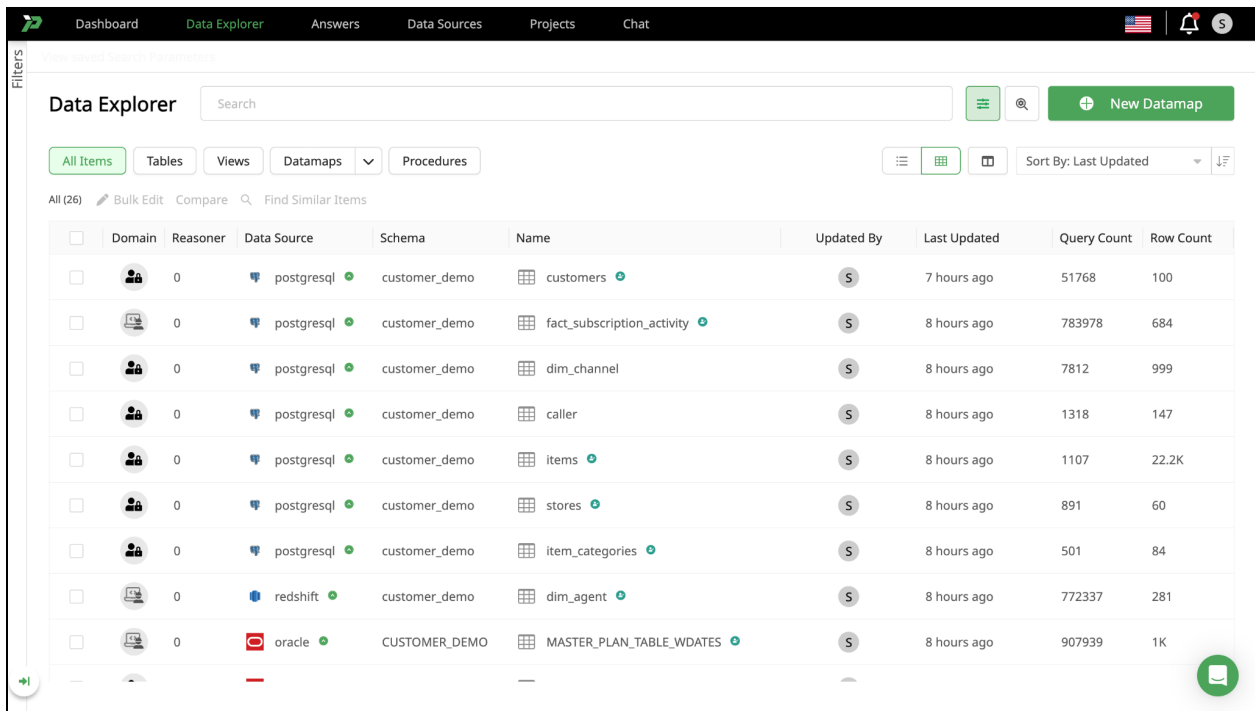
By default, the result table is sorted by Reasoner™ score. The Reasoner score is tunable by you at any time. Simply click on the magnifying glass icon to the right of the search bar to bring up the Search Tuning dialog.



Adjusting the sliders or numeric values will alter the weight applied to the concept e.g. a value of 10 for Table Name will place more importance on the name of a table when searching for matches to your query. Tables with names that match your query will have a higher Reasoner score than those with a tag matching your query (assuming the tag value is set lower than 10).

## Preview Data

To explore the metadata on a table, datamap or view, and to preview data and columns, mouse over a row of interest. The row will highlight indicating that a click anywhere on the row will open a detailed view.



The screenshot shows the Data Explorer interface with a table of data sources. The table has columns for Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The data is sorted by Last Updated.

	Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
<input type="checkbox"/>		0	postgresql	customer_demo	customers	S	7 hours ago	51768	100
<input type="checkbox"/>		0	postgresql	customer_demo	fact_subscription_activity	S	8 hours ago	783978	684
<input type="checkbox"/>		0	postgresql	customer_demo	dim_channel	S	8 hours ago	7812	999
<input type="checkbox"/>		0	postgresql	customer_demo	caller	S	8 hours ago	1318	147
<input type="checkbox"/>		0	postgresql	customer_demo	items	S	8 hours ago	1107	22.2K
<input type="checkbox"/>		0	postgresql	customer_demo	stores	S	8 hours ago	891	60
<input type="checkbox"/>		0	postgresql	customer_demo	item_categories	S	8 hours ago	501	84
<input type="checkbox"/>		0	redshift	customer_demo	dim_agent	S	8 hours ago	772337	281
<input type="checkbox"/>		0	oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES	S	8 hours ago	907939	1K

The detail view is grouped by six navigational areas:

## Overview

The overview screen details some key information about the data.

- Data Source - e.g. Oracle. Snowflake etc.
- Schema - The schema name
- Type - The type of data being explored e.g. Table, View or Datamap
- Columns - The number of columns in the data
- Rows - The number of rows that will be automatically populated in the preview, default is 100 rows if data contains over 100 rows. Preview limits can be changed from 100 to 200, 500, and 1,000.

Immediately under these data facts is the fully qualified name of the data followed by a rich text Description wiki editor where users can enter information useful to themselves and others in future. The description, tags, and even who last updated this information is metadata that is used by the Reasoner and our advanced text search.

The screenshot shows the Data Explorer interface. On the left, a table lists various data sources. The right-hand side shows a detailed overview for the 'dim\_agent' table, including its data source (redshift), schema (customer\_demo), type (Table), and 18 columns. It also displays an AI-generated description and a domain dropdown menu.

Domain	Reasoner	Data Source	Schema	Name	Update
	0	redshift	customer_demo	dim_agent	S
	0	postgre...	customer_demo	stg_orders	S
	0	postgre...	customer_demo	stg_payments	S
	0	postgre...	customer_demo	customers	S
	0	postgre...	customer_demo	orders	S
	0	postgre...	customer_demo	stg_customers	S
	0	postgre...	customer_demo	raw_payments	S
	0	postgre...	customer_demo	raw_orders	S
	0	postgre...	customer_demo	raw_customers	S

**dim\_agent**  
Last Updated 4 minutes ago

**Overview**

**DETAILS**

Data Source: redshift  
Schema: customer\_demo  
Type: Table  
Columns: 18 columns  
Rows: 100 rows

Mark as Duplicate

Description: Add AI Description

**AI Generated Description**

- agent\_role\_start\_date - The date when the agent's role started.
- agent\_role\_end\_date - The date when the agent's role ended.
- activation\_source - The source from which the agent's account was activated.

Domain: Demo

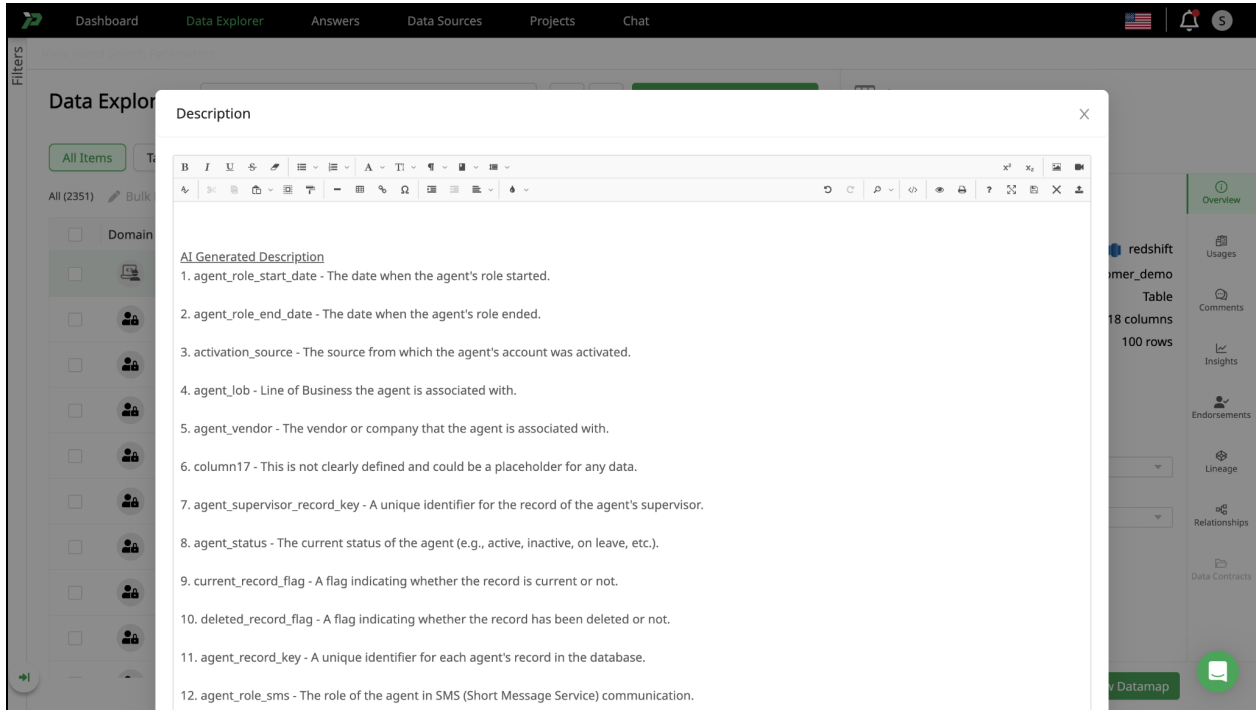
Close Analyze New Datamap

On the right of the overview are quick visual summaries of data represented in detail on the other tabs e.g. how many up or downvotes have been received. Here you can also assign a Domain and subdomain and add or remove tags.

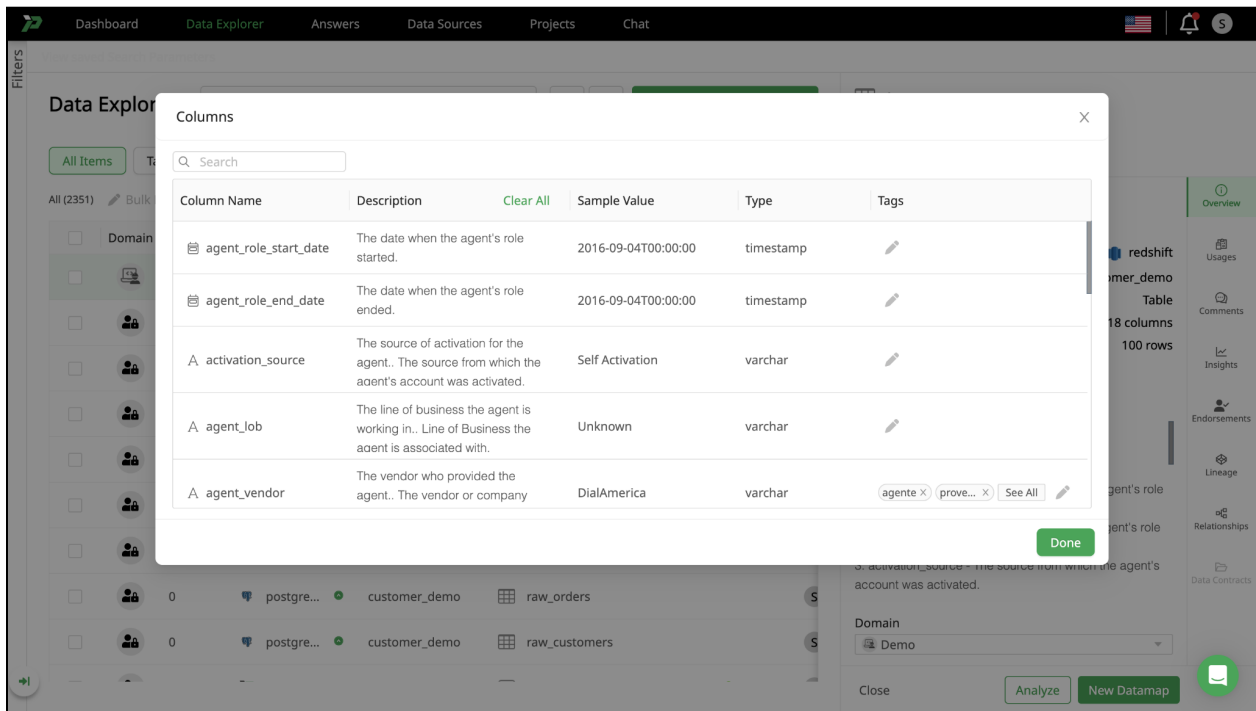
## Columns

The Columns tab details each column within the data.

- **Column Name** - The column name is displayed along with an indication of the data type within e.g. A for varchar, #.# for decimal. The details of the data type are located in the Type column of this table.
- **Description** - As with the description wiki editor on the Overview tab, this field is a rich user editable wiki controlled field. Hovering over the area will display an edit pencil icon. Click on the icon to load the wiki editor. Changes are not saved automatically, it is important to click on the save icon (floppy disk) when you are satisfied with your modifications. Any description here is included within the text search and Reasoner score. Additionally, there's the functionality to generate descriptions using AI capabilities by clicking "Add AI Description." The description will be generated automatically and note that it was AI generated.



- **Sample Value** - Randomly returned sample data from a row within the column.
- **Type** - The data type represented by the column.
- **Tags** - Tags can be added to columns, tables and questions. These tags are column specific and are not displayed on the Overview tab. They are part of the free text search and Reasoner score. Tagging enhances the search experience and adds context with the use of synonyms.

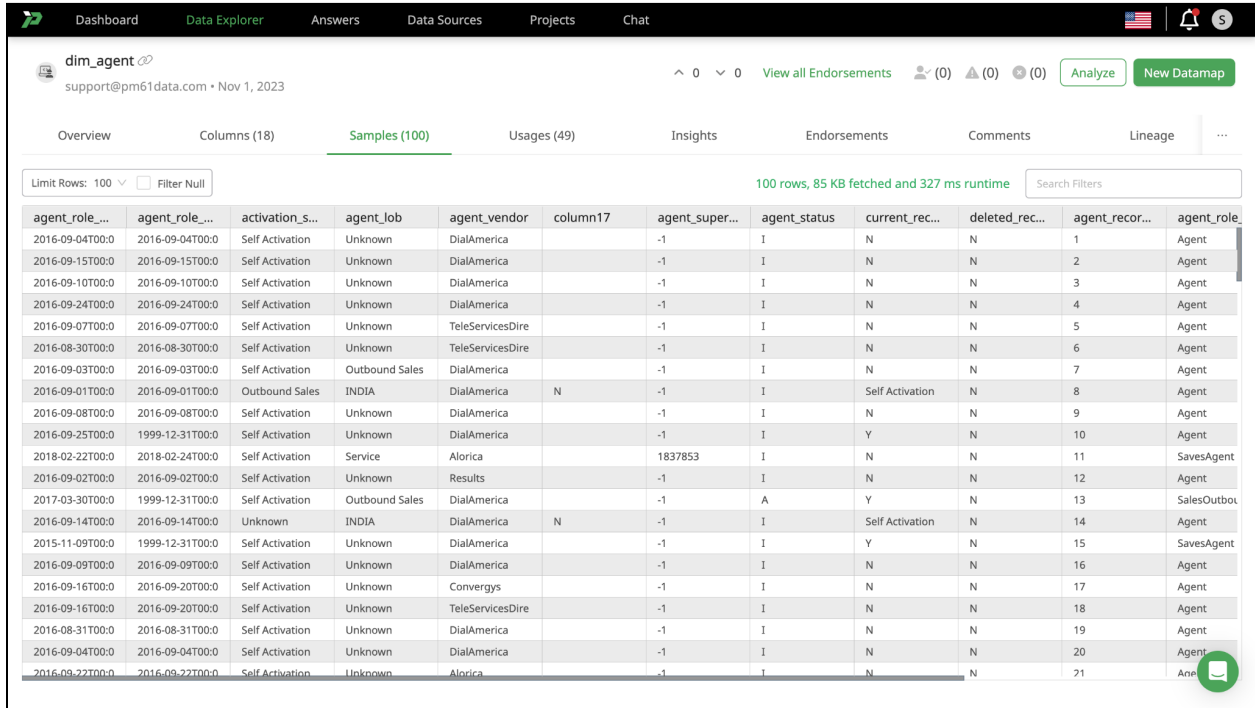


## Samples

The Samples tab details a limited results set pulled live from the data source.

The default sample size is 100 rows. You can modify this to a different, preset value (100,200,500,1000) by selecting the Limit Rows carat at the top left of the screen.

You can search the returned data using the search box at the top right. Any column with matching information will be highlighted. Note: This search is limited to the returned sample data, not the full result set.



The screenshot shows the 'dim\_agent' data source interface. The 'Samples' tab is active, displaying a table with 21 rows of data. The table columns include agent\_role, agent\_role, activation\_s..., agent\_job, agent\_vendor, column17, agent\_super..., agent\_status, current\_rec..., deleted\_rec..., agent\_recor..., and agent\_role. The data rows show various agent roles, activation statuses, and vendors.

agent_role...	agent_role...	activation_s...	agent_job	agent_vendor	column17	agent_super...	agent_status	current_rec...	deleted_rec...	agent_recor...	agent_role
2016-09-04T00:0	2016-09-04T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	1	Agent
2016-09-15T00:0	2016-09-15T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	2	Agent
2016-09-10T00:0	2016-09-10T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	3	Agent
2016-09-24T00:0	2016-09-24T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	4	Agent
2016-09-07T00:0	2016-09-07T00:0	Self Activation	Unknown	TeleServicesDire		-1	I	N	N	5	Agent
2016-08-30T00:0	2016-08-30T00:0	Self Activation	Unknown	TeleServicesDire		-1	I	N	N	6	Agent
2016-09-03T00:0	2016-09-03T00:0	Self Activation	Outbound Sales	DialAmerica		-1	I	N	N	7	Agent
2016-09-01T00:0	2016-09-01T00:0	Outbound Sales	INDIA	DialAmerica	N	-1	I	Self Activation	N	8	Agent
2016-09-08T00:0	2016-09-08T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	9	Agent
2016-09-25T00:0	1999-12-31T00:0	Self Activation	Unknown	DialAmerica		-1	I	Y	N	10	Agent
2018-02-22T00:0	2018-02-24T00:0	Self Activation	Service	Alorica		1837853	I	N	N	11	SavesAgent
2016-09-02T00:0	2016-09-02T00:0	Self Activation	Unknown	Results		-1	I	N	N	12	Agent
2017-03-30T00:0	1999-12-31T00:0	Self Activation	Outbound Sales	DialAmerica		-1	A	Y	N	13	SalesOutbo
2016-09-14T00:0	2016-09-14T00:0	Unknown	INDIA	DialAmerica	N	-1	I	Self Activation	N	14	Agent
2015-11-09T00:0	1999-12-31T00:0	Self Activation	Unknown	DialAmerica		-1	I	Y	N	15	SavesAgent
2016-09-09T00:0	2016-09-09T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	16	Agent
2016-09-16T00:0	2016-09-20T00:0	Self Activation	Unknown	Convergys		-1	I	N	N	17	Agent
2016-09-16T00:0	2016-09-20T00:0	Self Activation	Unknown	TeleServicesDire		-1	I	N	N	18	Agent
2016-08-31T00:0	2016-08-31T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	19	Agent
2016-09-04T00:0	2016-09-04T00:0	Self Activation	Unknown	DialAmerica		-1	I	N	N	20	Agent
2016-09-22T00:0	2016-09-22T00:0	Self Activation	Unknown	Alorica		-1	I	N	N	21	Agent

## Usage

The Usage tab details where the data is being used, and how.

Domain	Data Source	Schema	Name	Last Updated	Query #	Row #	User Interactions
	Promethium	promethium	support_datamap_1698558726647	4 days ago	S	0	0
	redshift	promethium	support_datamap_1698566911209	4 days ago	S	0	0
	redshift	promethium	support_datamap_1698567039067	4 days ago	S	0	0
	redshift	promethium	support_datamap_1698572920123	4 days ago	S	0	0
	Promethium	promethium	revenue_subscription_by_plan_by_vendor_from_20...	3 days ago		0	0
	Promethium	promethium	support_datamap_1698623084873	3 days ago	S	0	0
	Promethium	promethium	support_datamap_1698623366725	3 days ago	S	0	0
	Promethium	promethium	support_datamap_1698680826930	3 days ago	S	0	0
	Promethium	promethium	support_datamap_1698682359958	2 days ago	S	0	0
	Promethium	promethium	revenue by vendor by term by plan	2 days ago	P	0	0
	Promethium	promethium	support_datamap_1698683019270	2 days ago	E	0	0

The screen is grouped by Datamaps and Answers, and lists how many of each concept utilize the data.

Clicking on any of the linked Datamaps or Answers will open that item in a new window. No modifications can be made directly from this view, it simply links you to the underlying usage where modifications can be made.

### Comments

The Comments tab shows all user comments by name and date. The comments are ordered from oldest to newest.

Comments can be added by entering the comment in the text field and clicking Add comment. Comments can be deleted or edited by selecting the appropriate icon next to an existing comment.

Comments are not included in our Advanced Search at this time.

The screenshot shows the 'Comments' tab for a dataset named 'dim\_agent'. The interface includes a top navigation bar with 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. Below the navigation, there are tabs for 'Overview', 'Columns (18)', 'Samples (100)', 'Usages (49)', 'Insights', 'Endorsements', 'Comments', and 'Lineage'. The main content area is currently empty, displaying a large envelope icon and the text 'No Comments'. At the bottom, there is a text input field with the placeholder 'Add a Comment' and an 'Add comment' button.

## Lineage

The Lineage feature displays the tables underlying the datamap. By expanding the '+' symbol, you gain access to detailed information, including utilized columns, joins, group bys, unions, and more.

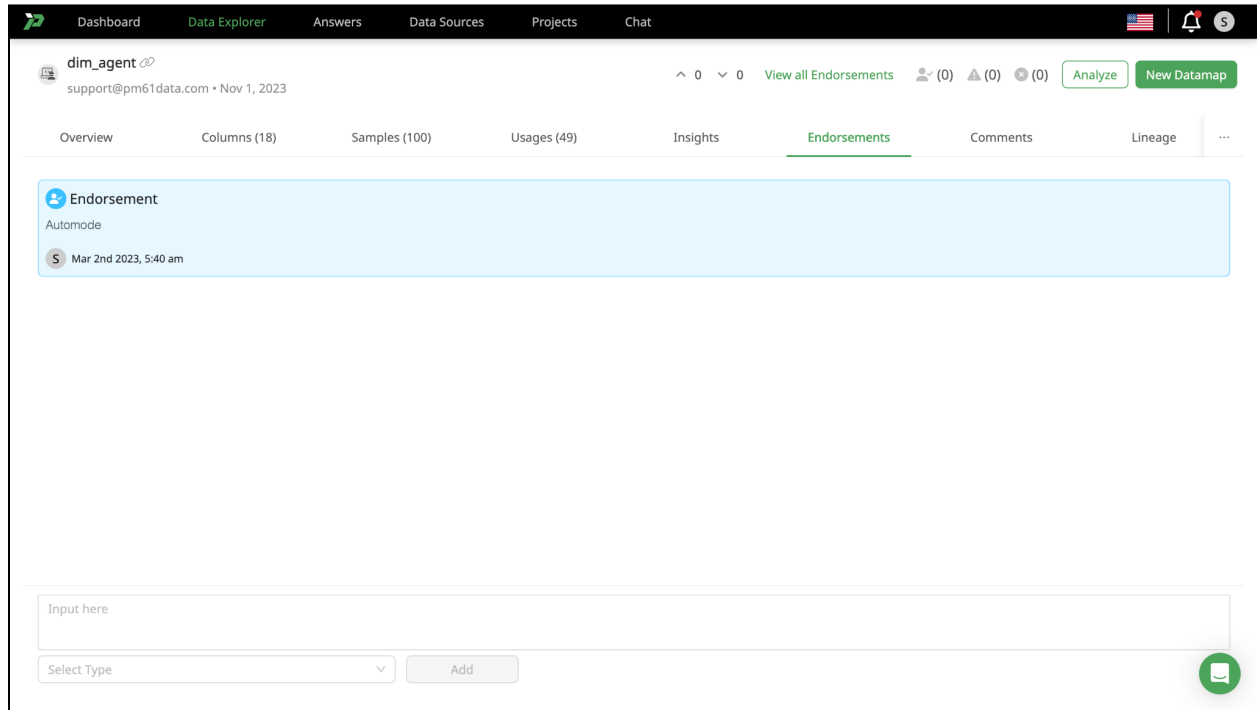
The screenshot displays the 'Lineage' view for a specific datamap titled 'revenue\_by\_plan\_in\_2016\_sync\_error\_test\_1698077318535'. The diagram shows a sequence of data processing steps:
 

- RADIO\_TEST\_DATASET**: Input table with columns '#.# REVENUE', 'PLAN\_NAME', and 'AGENT\_LOCATION'.
- FACT\_SUBSCRIPTION...**: Input table with column 'BILLING\_METHOD'.
- INNER JOIN**: Joins the previous two tables on 'BILLING\_...'.
- DIM\_AGENT**: Input table with columns 'AGENT\_ROLE\_END\_DATE', 'AGENT\_ROLE\_START\_D...', and 'AGENT\_VENDOR'.
- INNER JOIN**: Joins the previous result with 'DIM\_AGENT' on 'AGENT\_VE...' and 'AGENT\_LO...'.
- FILTER**: Filters the data based on the condition 'agent... BE... 2016-1-...'.
- GROUP BY**: Groups the data by 'PLAN\_NAME' and summarizes the '#.# REVENUE' with a 'sum' expression.
- REVENUE\_BY\_PLAN\_I...**: The final output table with columns 'AGENT\_ROLE\_END\_DATE', '#.# REVENUE', and 'PLAN\_NAME'.

 The interface also includes a left sidebar with navigation options like 'Directions', 'Destinations', 'Comments', and 'Data Contract'. At the bottom, there is an 'Activities' section showing 'No Job History records found.' with a 'Refresh' button.

## Endorsement

The Endorsement tab shows all user endorsements, warnings or notes on deprecation.



Endorsements are ordered from oldest to newest and include the username and any comment they included along with their endorsement.

## Datamaps

A datamap is, in essence, an augmented dataset. It is the term used to describe a dataset and all the additional metadata and user enrichment available through Promethium.

The key steps for building a Datamap include:

- Add tables, and add and edit joins
- Select and rename columns
- Add filter, Group By, and Order By



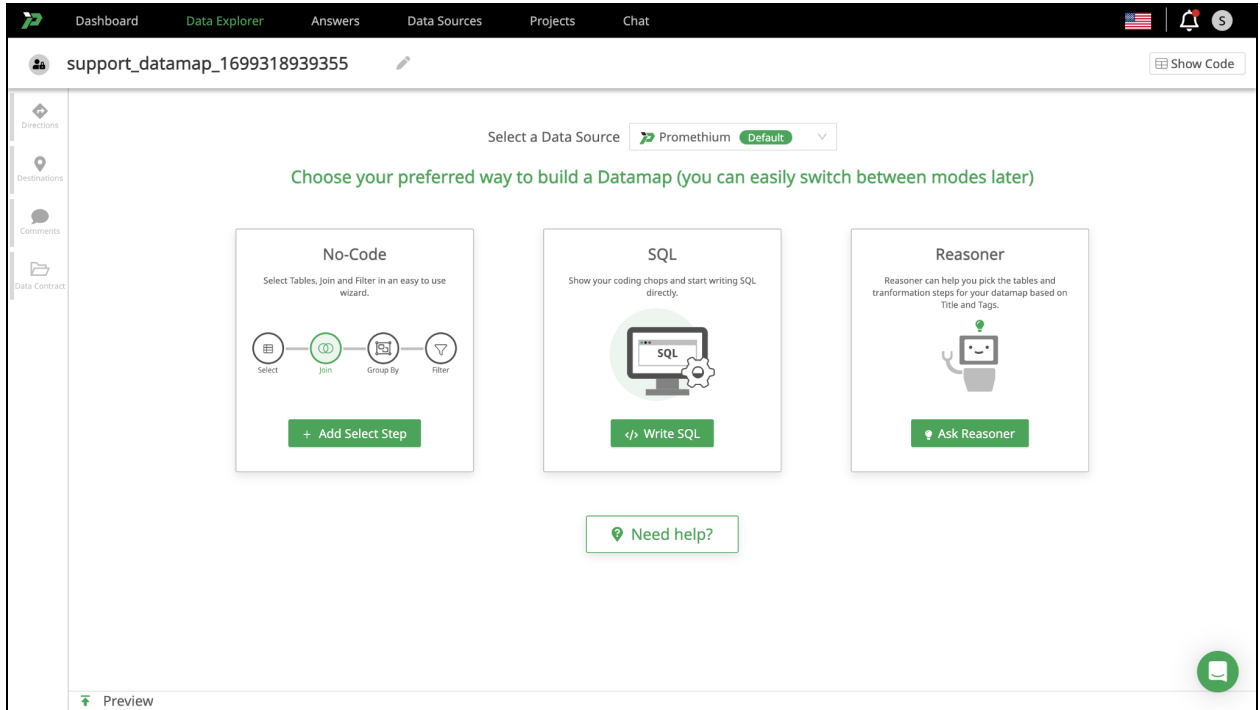
From Data Explorer, click + New Datamap.

The screenshot shows the Data Explorer interface. At the top, there are navigation tabs: Dashboard, Data Explorer (active), Answers, Data Sources, Projects, and Chat. A search bar is present. Below the search bar, there are filters for 'All Items', 'Tables', 'Views', 'Datamaps', and 'Procedures'. A 'New Datamap' button is highlighted with a red box. Below the filters, there is a table with columns: Domain, Reasoner, Data Source, Schema, Name, Updated By, Last Updated, Query Count, and Row Count. The table lists several data sources, including postgresql and oracle, with their respective schemas and table names.

Domain	Reasoner	Data Source	Schema	Name	Updated By	Last Updated	Query Count	Row Count
	0	postgresql	customer_demo	customers	S	7 hours ago	51768	100
	0	postgresql	customer_demo	fact_subscription_activity	S	8 hours ago	783978	684
	0	postgresql	customer_demo	dim_channel	S	8 hours ago	7812	999
	0	postgresql	customer_demo	caller	S	8 hours ago	1318	147
	0	postgresql	customer_demo	items	S	8 hours ago	1107	22.2K
	0	postgresql	customer_demo	stores	S	8 hours ago	891	60
	0	postgresql	customer_demo	item_categories	S	8 hours ago	501	84
	0	redshift	customer_demo	dim_agent	S	8 hours ago	772337	281
	0	oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES	S	8 hours ago	907939	1K

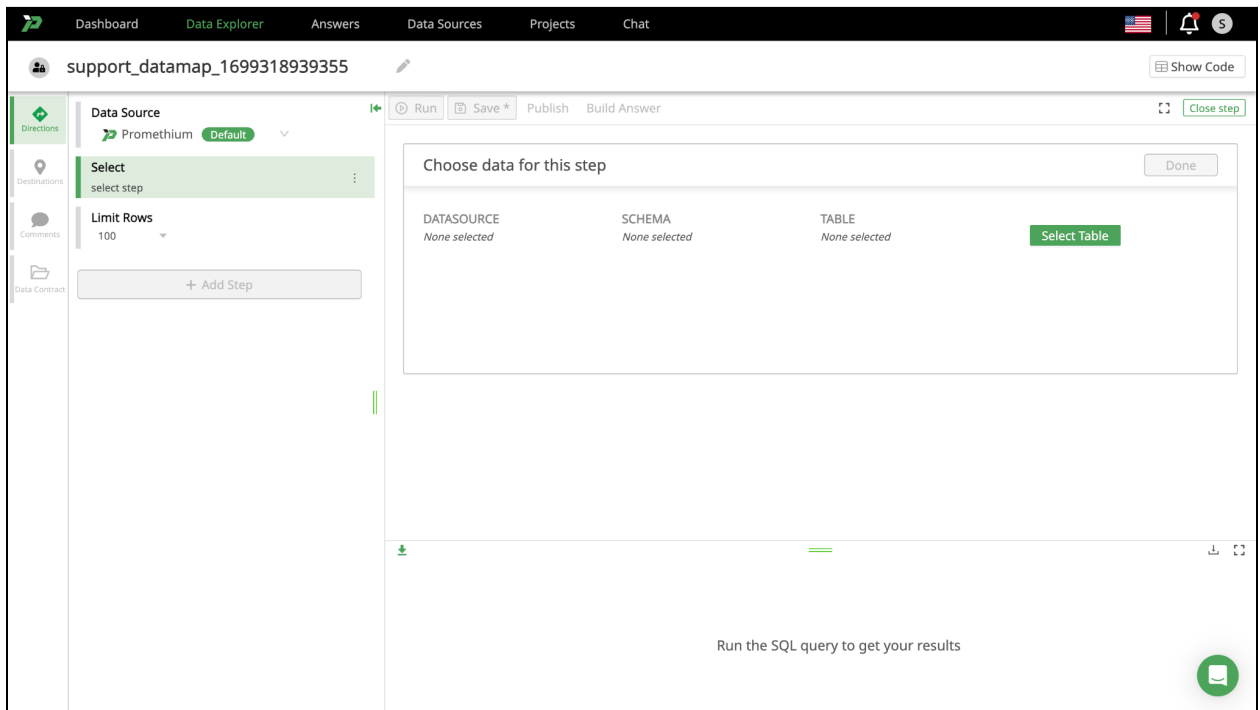
You can select one of three different methods to build a datamap. It's possible to switch between these modes as you go.

- No-Code - a wizard based flow intended for those with little to no SQL knowledge.
- SQL - a full web based IDE that allows you to write unrestricted SQL code directly.
- Reasoner - an AI powered builder that will make recommendations on tables and transformations based on the title and description you provide.



## No-Code

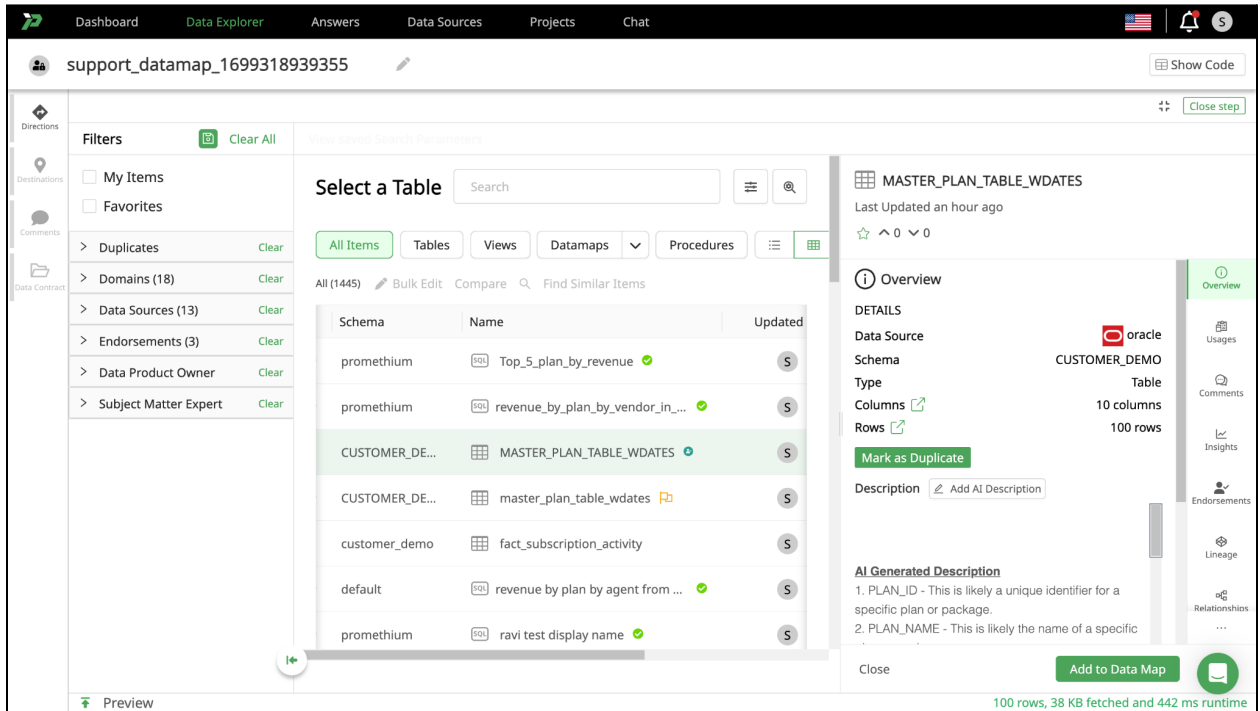
Click + Add Select Step to enter the No-Code datamap creation flow.



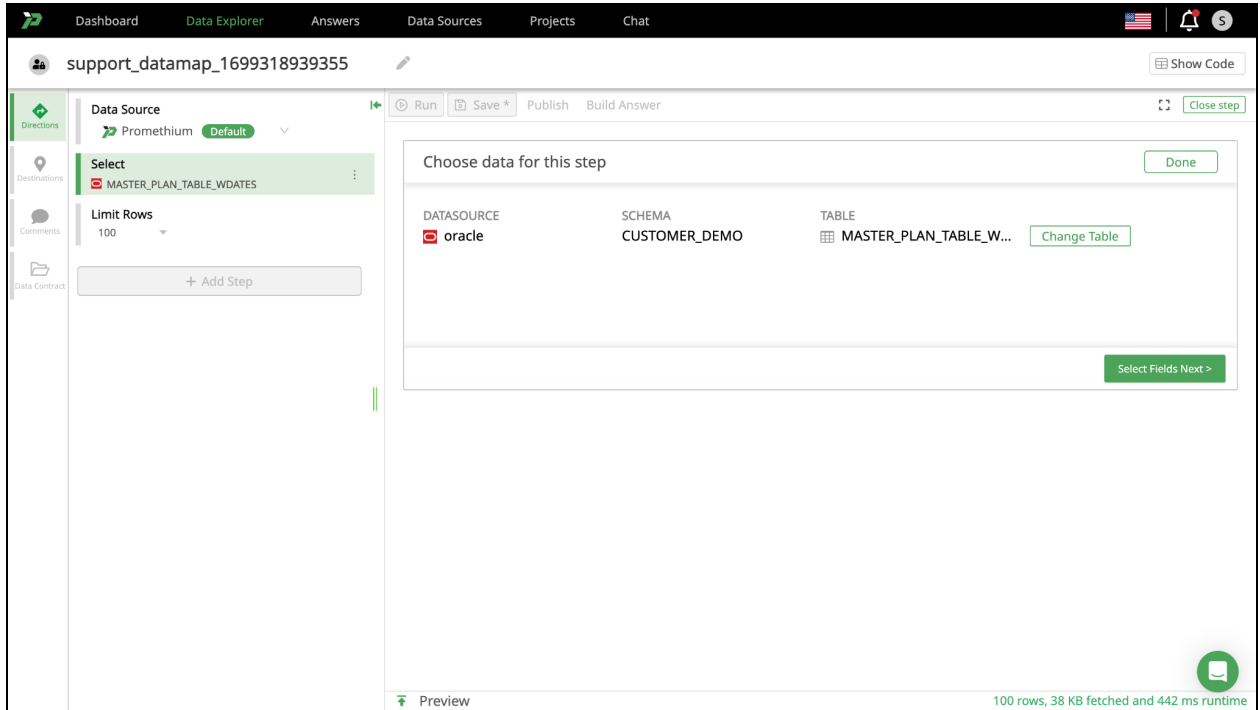
A default Domain and title will be assigned. You can modify these now or accept the defaults and modify at a later time. You can add tags which will be used by the advanced search to help users locate your datamap.

To swap to the SQL mode click on Show Code at the top right of the page. You can swap back to the no-code flow as required.

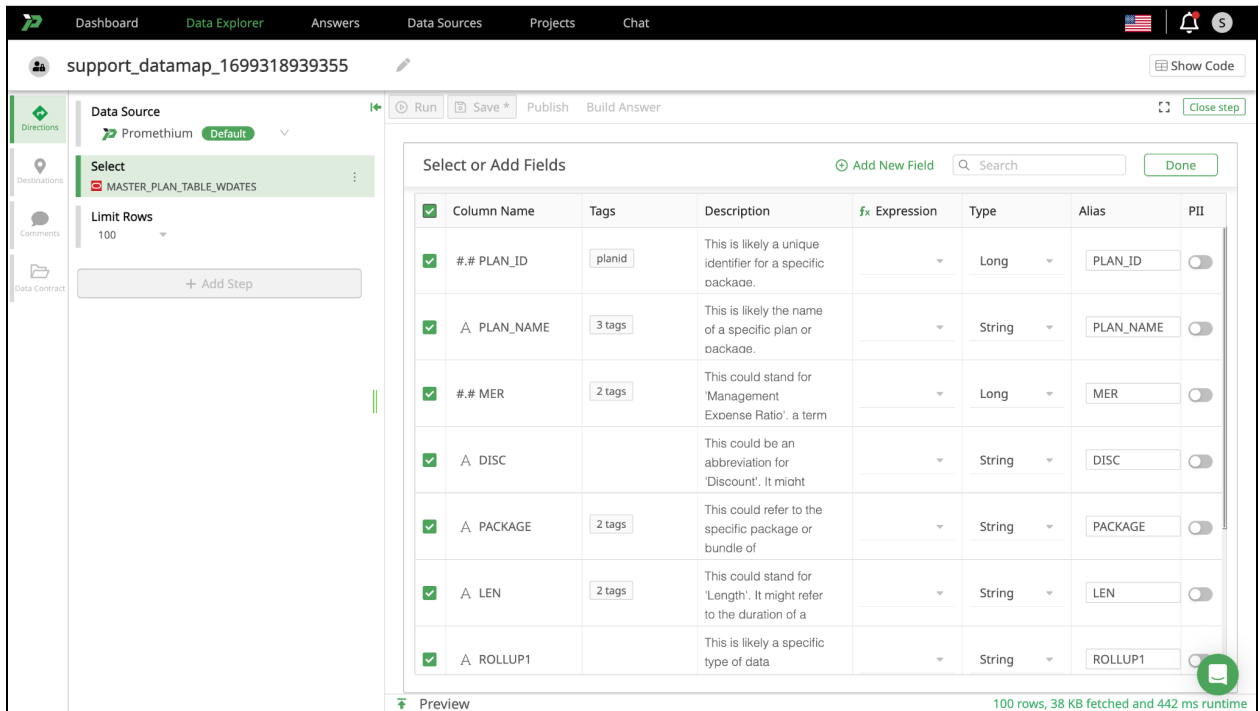
The first task is to select a datasource, schema and table. Click Select Table. The Direction tab will display a tabular layout almost identical to the Data Explorer page. From here you can use search and filters to locate and select the table, view or even existing datamap you want to add to your datamap.



Click the object you want to add and from the modal click Add to Data Map.

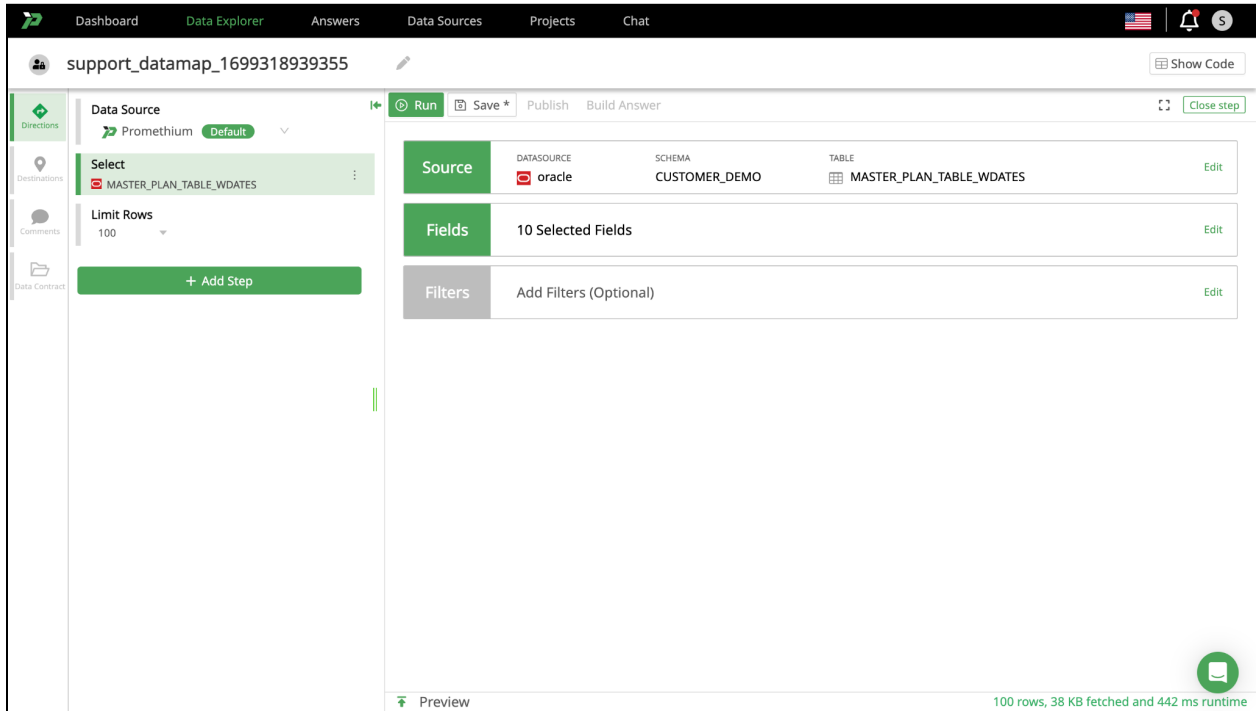


Now we can select the field or fields we are interested in from this table. Click the green button labeled Select Fields Next >.

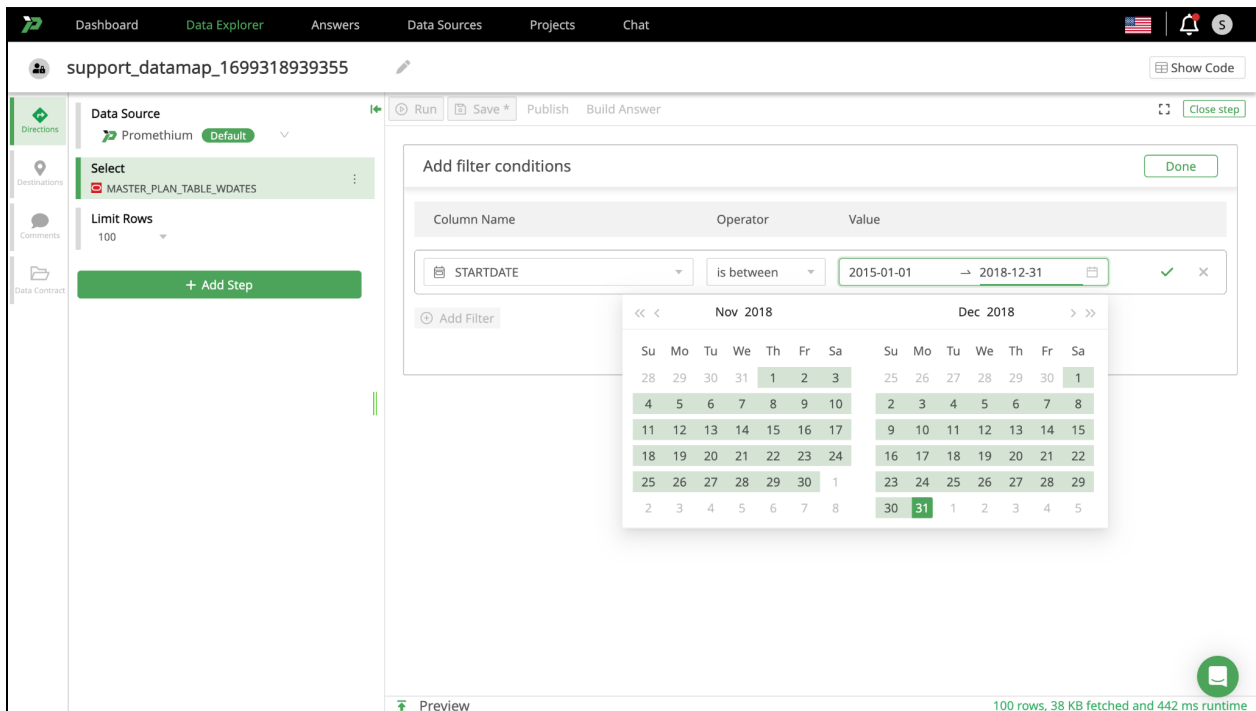


Select one or more fields to add to the datamap by clicking the check box to the left of the row(s) of interest. At this time you can modify the alias of the field for easier identification, flag the field as containing PII, choose to modify the datatype (e.g. cast from date to string), add specific tags or a description and even create a custom expression.

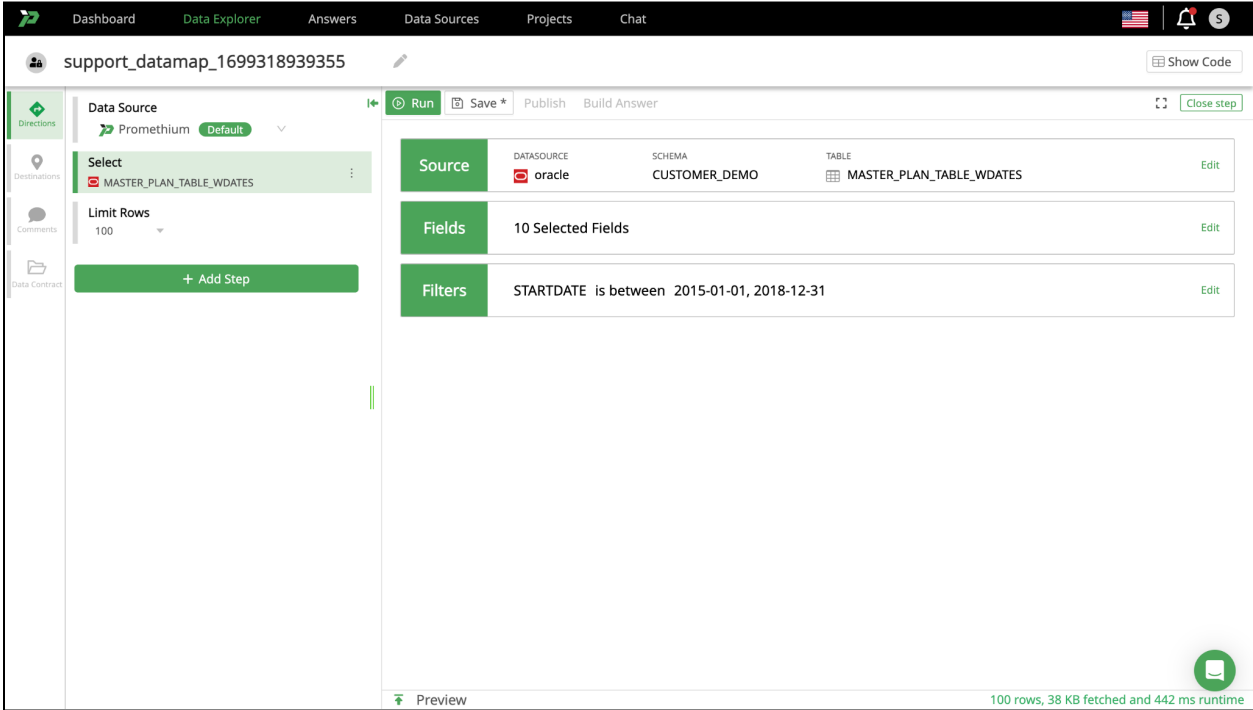
When you have made your selections and modifications select Done.



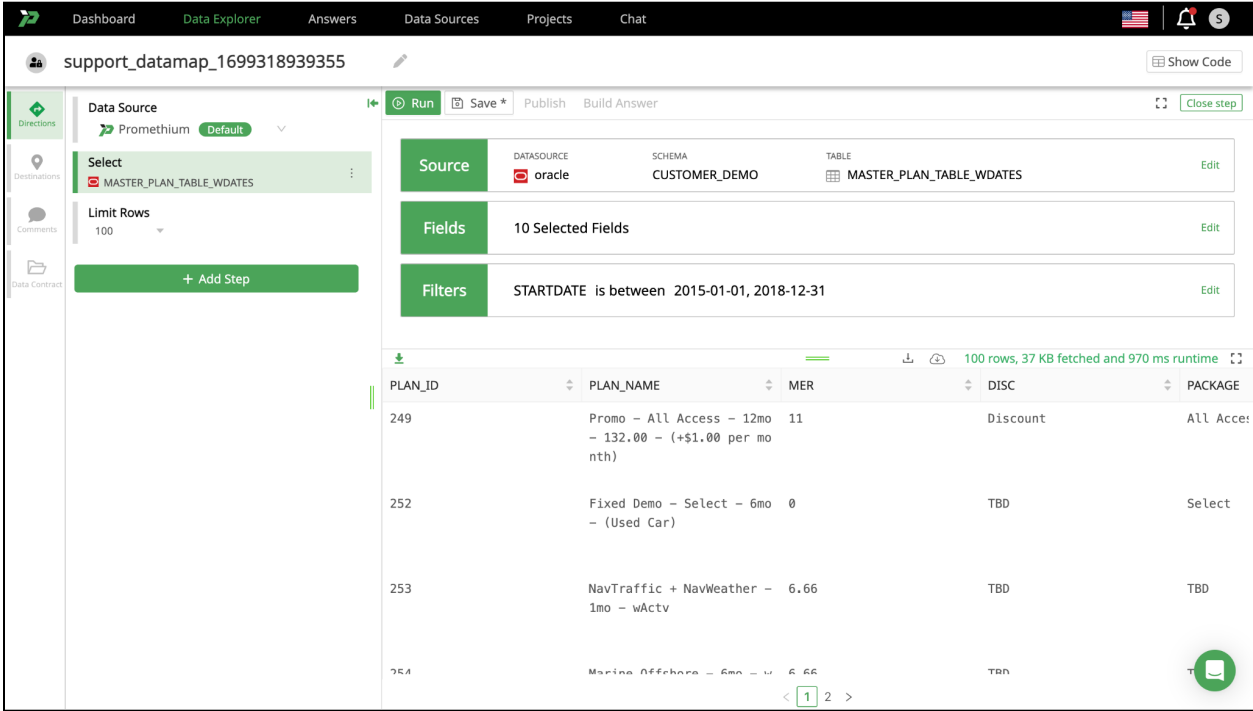
Lastly we can add any optional filters. Filters can be combined as required. Select a column from the drop down list, select an operator and finally enter any value as required. When you're happy with your filter click the check mark next to your rule to apply it.



When you are satisfied with your selections and filters, click the green Run button at the top of the screen to execute your datamap. This will execute the query and render a row limited result set to allow you to confirm the output.



If you are satisfied with the output we must save the datamap in order to make it available for use. Click the Save button next to the Run button previously clicked.



Custom Expressions - you can create custom expressions with an alias and defined output type.

The screenshot shows the 'Select or Add Fields' dialog in the Data Explorer. The dialog table is as follows:

Column Name	Tags	Description	fx Expression	Type	Alias	PII
## PLAN_ID	planid	This is likely a unique identifier for a specific package.		Long	PLAN_ID	<input type="checkbox"/>
A PLAN_NAME	3 tags	This is likely the name of a specific plan or package.		String	PLAN_NAME	<input type="checkbox"/>
## MER	2 tags	This could stand for 'Management Expense Ratio'.		Long	MER	<input type="checkbox"/>

The main table below the dialog shows the following data:

PLAN_ID	PLAN_NAME	MER	DISC	PACKAGE
249	Promo - All Access - 12mo - 132.00 - (+\$1.00 per month)	11	Discount	All Access
252	Fixed Demo - Select - 6mo - (Used Car)	0	TBD	Select
253	NavTraffic + NavWeather	6.66	TRD	TBD

Type conversions - you can select a specific data type for the fields within a column (e.g. cast a date field to a string)

The screenshot shows the 'Select or Add Fields' dialog in the Data Explorer. The dialog table is as follows:

Column Name	Tags	Description	fx Expression	Type	Alias
A PLAN_NAME	3 tags	This is likely the name of a specific plan or package.	LOWER("PLAN_NAME")	String	PLAN_NAME
## MER	2 tags	This could stand for 'Management Expense Ratio'.		String	MER
A DISC		This could be an abbreviation for 'Discount'.		Date	DISC

The main table below the dialog shows the following data:

PLAN_ID	PLAN_NAME	MER	DISC	PACKAGE
249	Promo - All Access - 12mo - 132.00 - (+\$1.00 per month)	11	Discount	All Access
252	Fixed Demo - Select - 6mo - (Used Car)	0	TBD	Select
253	NavTraffic + NavWeather	6.66	TRD	TBD

Alias - you can set a specific alias for a field.

Column Name	Description	fx Expression	Type	Alias	PII
<input checked="" type="checkbox"/> A PLAN_NAME	This is likely the name of a specific plan or package.	LOWER("PLAN_NAME")	String	Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/> ## MER	This could stand for 'Management Expense Ratio'. a		Long	MER	<input type="checkbox"/>
<input checked="" type="checkbox"/> A DISC	This could be an abbreviation for 'Discount'. It might		String	DISC	<input type="checkbox"/>

PLAN_ID	PLAN_NAME	MER	DISC	PACKAGE
249	Promo - All Access - 12mo - 132.00 - (+\$1.00 per month)	11	Discount	All Accer
252	Fixed Demo - Select - 6mo - (Used Car)	0	TBD	Select
253	NavTraffic + NavWeather - 1mo - wactv	6.66	TBD	TBD

You can modify your Fields as much as required until you are satisfied. After each change click the Run button to execute the query. When you're satisfied with the results, click Save.

Source	Schema	Table
oracle	CUSTOMER_DEMO	MASTER_PLAN_TABLE_WDATES

Fields
10 Selected Fields

Filters
STARTDATE is between 2015-01-01, 2018-12-31

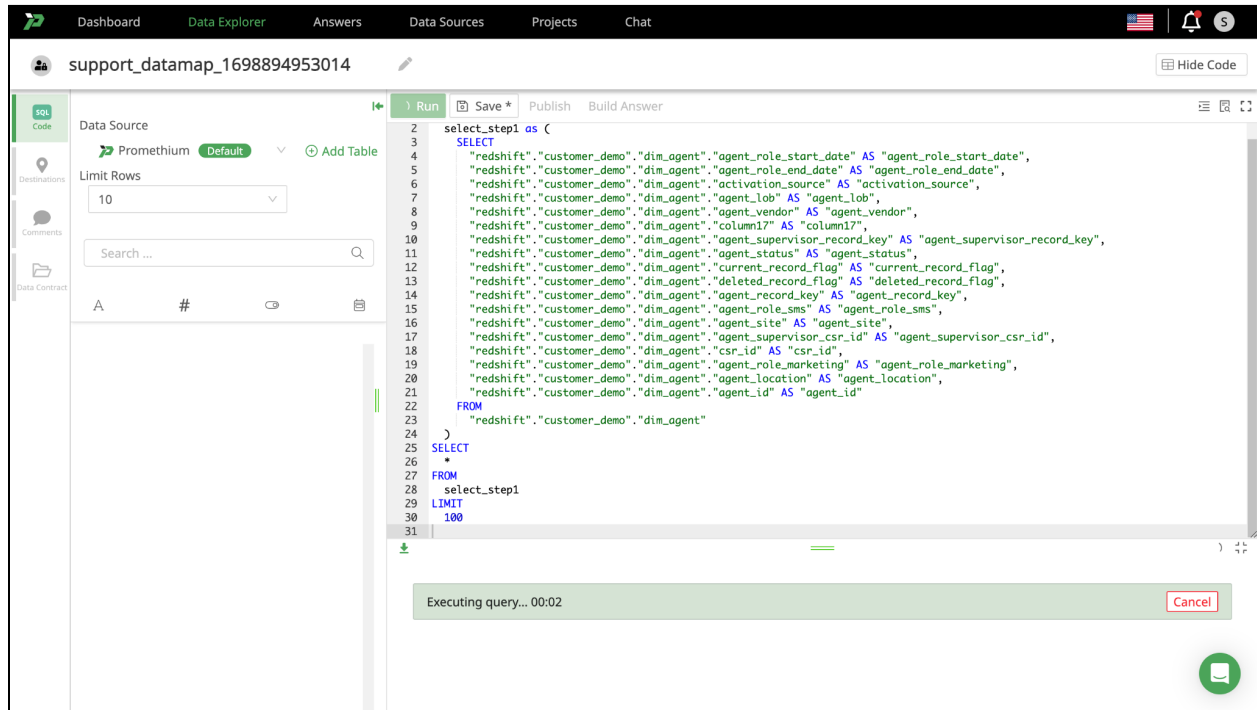
  

PLAN_ID	Plan	MER	DISC	PACKAGE
249	promo - all access - 12mo - 132.00 - (+\$1.00 per month)	11	Discount	All Accer
252	fixed demo - select - 6mo - (used car)	0	TBD	Select
253	navtraffic + navweather - 1mo - wactv	6.66	TBD	TBD
254	marine offshore - 6mo - w	6.66	TBD	TBD



## SQL

Clicking the <> Write SQL button launches the advanced SQL mode. Swapping between modes (clicking the Hide Code button) can cause some customizations to be lost. It is far more common to lose customizations when moving from the advanced views to the less advanced.



The advanced SQL mode is a web based SQL IDE wherein you can modify and execute any changes you need.

This view is intended for SQL experts. SQL is a powerful language and it's easy to encounter errors. You can modify your SQL as often as required and click the Run button to execute the query. When you're satisfied with the results, click Save.

## Ask Reasoner

Clicking the Ask Reasoner button, a window will pop up. Select the appropriate Domain to narrow the search for a more relevant dataset. Give the datamap a title, once you are satisfied, click "Ask Reasoner" on the bottom right. When using Reasoner, Promethium uses key phrases used in the Data Map title to create your datamap, including parameters when asking a question.

Dashboard Data Explorer Answers Data Sources Projects Chat Get Started

support\_datamap\_1699296837476 Show Code

Directions Destinations Comments

### Create Reasoner Assisted Datamap

Data Source  
Promethium

Domain Selection  
Perfect Order x

Datamap Title  
What is the top 5 quantity by customer by status where status is Imperfect

Optional Description  
Customers with the most imperfect orders

Use Generative AI

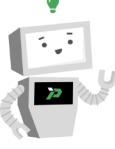
Close Ask Reasoner

Preview

Dashboard Data Explorer Answers Data Sources Projects Chat Get Started

support\_datamap\_1699296837476 Show Code

### Create Reasoner Assisted Datamap



Reasoner is crunching numbers based on your Title and Tags...

- ✓ Finding matching tables...
- ✓ Finding matching tags...
- ✓ Finding columns...
- ✓ Finding joins...

Close Ask Reasoner

Preview

Dashboard Data Explorer Answers Data Sources Projects Chat Get Started

What\_is\_the\_top\_5\_quantity\_by\_customer\_by\_status\_where\_status\_is\_... Show Code

Run Save \* Publish Build Answer

Data Source: Promethium (Default)

Select: orders\_usa\_flagged\_mqt


Filter: filter step

Group By: group\_by step

Order By: order\_by step

Limit Rows: 5

+ Add Step



Run the SQL query to get your results

The screenshot displays the Promethium Data Explorer interface. At the top, navigation tabs include Dashboard, Data Explorer, Answers, Data Sources, Projects, Chat, and a Get Started button. The main title is "What is the top 5 quantity by customer by status where status is...".

On the left sidebar, there are sections for "Data Source" (Promethium Default), "Destinations", "Filter" (filter step), "Group By" (group\_by step), "Order By" (order\_by step), and "Limit Rows" (5). A "+ Add Step" button is visible at the bottom of the sidebar.

The central workspace shows a data pipeline diagram with the following steps: "orders\_usa\_flagged\_mqt" (data source), "Filter", "GroupBy", and "OrderBy". The pipeline ends with a green checkmark icon and the text "5 ROWS, 3 COLUMNS REFRESHED JUST NOW".

Below the pipeline, a table displays the results:

quantity	customer_name	status
28	MBD DISTRIBUTING	Imperfect
66	CORE-MARK - PORTLAND	Imperfect
49	EBY BROWN COMPANY LLC	Imperfect
84	VISTAR DISTRIBUTORS INC EAST	Imperfect
2	HOSTESS BRANDS LLC	Imperfect

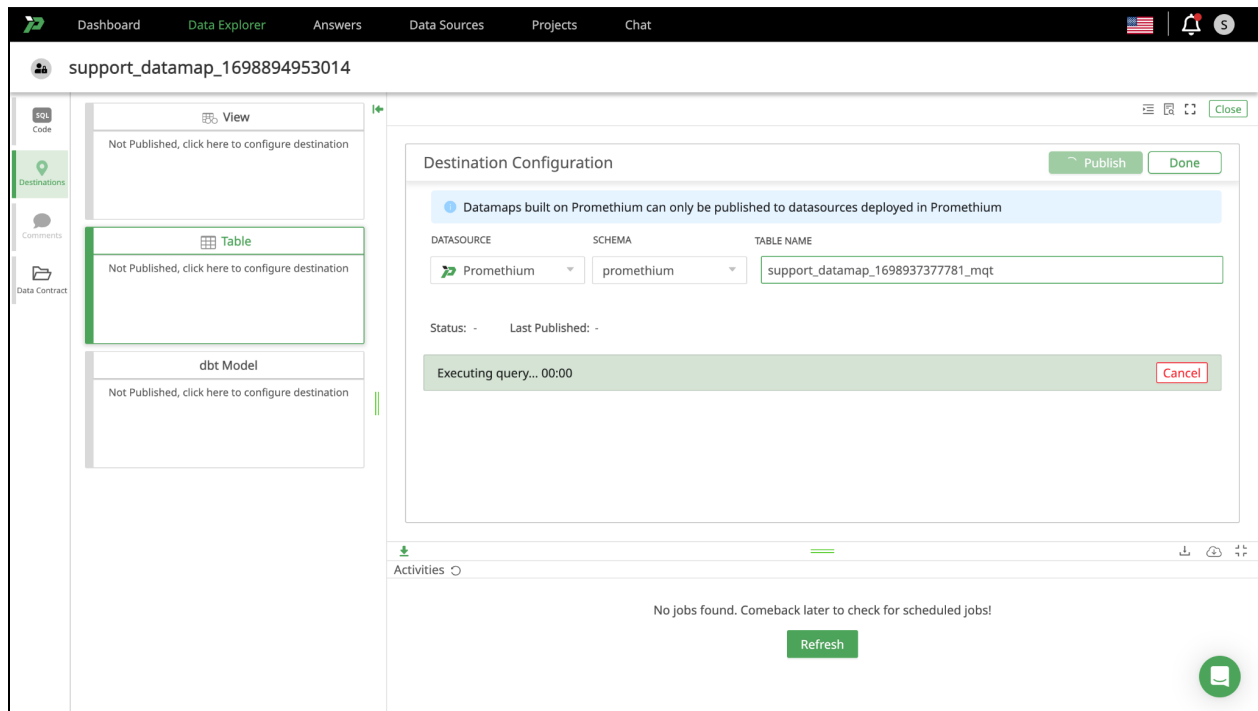
At the bottom of the table, it indicates "5 rows, 2 KB fetched and 1 seconds runtime". A pagination control shows "1" of 1 page.

## Data Pipelines

After a datamap has been saved, a new option of Publish will be available as will the Destinations tab on the left of the screen.

Promethium supports publishing a View, Table or dbt Model. For each option you can configure the destination, selecting a datasource and schema to publish to. The view name will be the

name you assigned to your datamap when you saved it in the previous step.



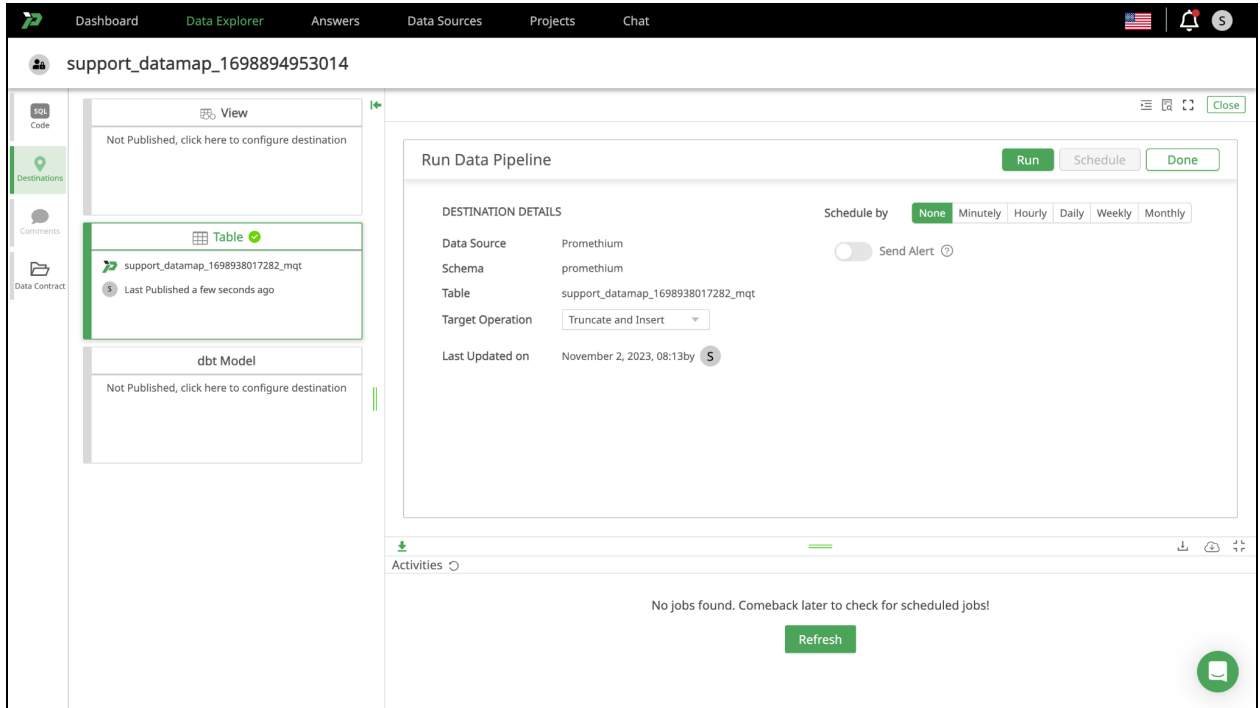
Select your desired datasource, schema and specify a table name. Click Publish.

Your pipeline will execute.

### Pipeline Scheduling

You can schedule pipeline execution for any published Table or dbt Model.

From the Destination tab, click the dbt Model or Table you wish to schedule. Click Run to run the data pipeline.



On the data pipeline page you can select a time based schedule. You can execute a one time pipeline execution by selecting non as your schedule. Alternatively you can configure your pipeline to execute every specified number of minutes, hours, days, weeks or months. Daily, weekly or monthly selections will require you to specify a time of day in addition to the specific day or date.

You can enforce the continuous execution of your pipeline on your schedule by leaving the default choice of Ends At Never selected. Alternatively you can specify a specific end date/time to limit the pipeline execution to a specific schedule.

When you are satisfied with your pipeline schedule click the green Schedule button to save your selections and trigger the pipeline schedule to execute.

## Answers

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All in one convenient location, questions can be searched, created and answered.

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## Search for Answers

Searching for and filtering Answers is easy and uses keywords and tags associated with the Answer to make search results highly relevant.

Using the search bar, you can quickly find results matching your query. Matches will be directly displayed below the search bar. You can select the most appropriate answer directly or hit return to see a more detailed results page from which to make your selection.

Dashboard | Data Explorer | **Answers** | Data Sources | Projects | Chat

Filters: Clear All

- My Items
- Favorites
- Assigned to Me
- Has Stories
- Domains (17)
- Data Product Owner (30)
- Status (7)
- Subject Matter Expert (30)

Answers: revenue

ANSWER	STATUS	REQUESTED BY	LAST UPDATED
What is revenue for last year	In Progress	S	Asked 6 days ago
What is revenue by plan by vendor from 2018 to...	In Progress	S	Asked 5 days ago
What is the revenue subscription by plan by ven...	In Progress	S	Asked 4 days ago
What is the revenue subscription by plan by ven...	In Progress	S	Asked 4 days ago
what is the average revenue by vendor location ...	In Progress	S	Asked 4 days ago

master plan analyze test

Domain | Requested By [User] | 26 minutes ago by [User] | 0 | 1 | 1

Data Product Owner: ? | Subject Matter Expert: ?

Dashboard | Data Explorer | **Answers** | Data Sources | Projects | Chat

Filters: Clear All

- My Items
- Favorites
- Assigned to Me
- Has Stories
- Domains (17)
- Data Product Owner (30)
- Status (7)
- Subject Matter Expert (30)

Answers: revenue

Sort By: Last Updated

ANSWER	STATUS	REQUESTED BY	LAST UPDATED
Data Product ...   Subject Matter ...	In Progress	S	Asked 6 days ago
Data Product ...   Subject Matter ...	In Progress	[User]	Asked 5 days ago
Data Product ...   Subject Matter ...	In Progress	S	Asked 4 days ago
testing_copy_master	In Progress	S	Asked 14 minutes ago
master plan analyze test	In Progress	[User]	Asked 27 minutes ago
support_datamap_1698923113903	In Progress	S	Asked 4 hours ago

testing\_copy\_master

14 minutes ago by S

The detailed results page shows tags, status and who originally requested the Answer alongside usage metrics such as view count, the number of dashboards that have been created and the number of queries. Available to view results in either a list or grid view.

## Filter and Sort Answers

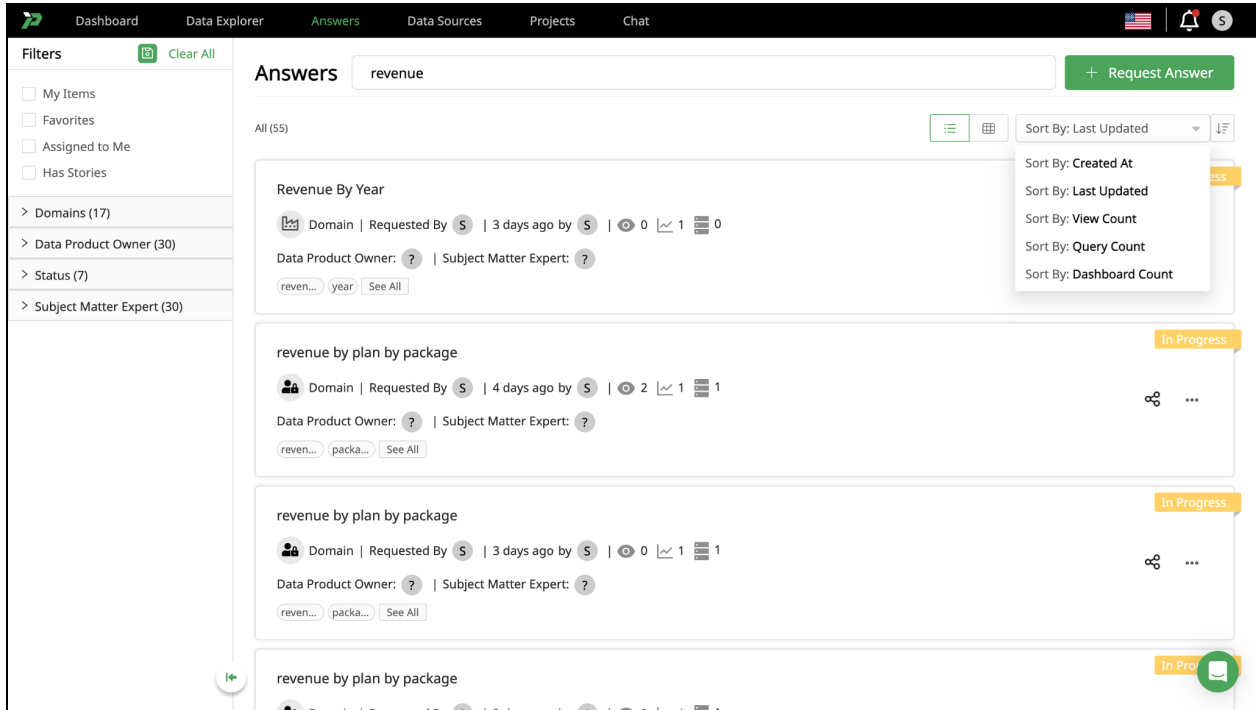
As with the Data Explorer, you can rapidly filter your results using the powerful result filters that are present immediately above the table of results.

- **Domains** - Search or browse for an existing Domain to limit the result set to that Domain or set of Domains.
- **Status** - Filter by the status set by the owner of the Answer - Published, New, In Progress or Assigned to Me (Answered or Unanswered).
- **Has Stories** - Has Stories will limit the result set to those which have Stories. Clicking the filter will toggle it on or off.
- **Favorites** - Favorites will limit the result set to those which you as a user have favorited. Clicking the filter will toggle it on or off.

You can combine one or all of these filters to rapidly narrow in on your required data.

To help find and explore the Answers available you can select from a number of Sort By refiners from the drop down at the top right.



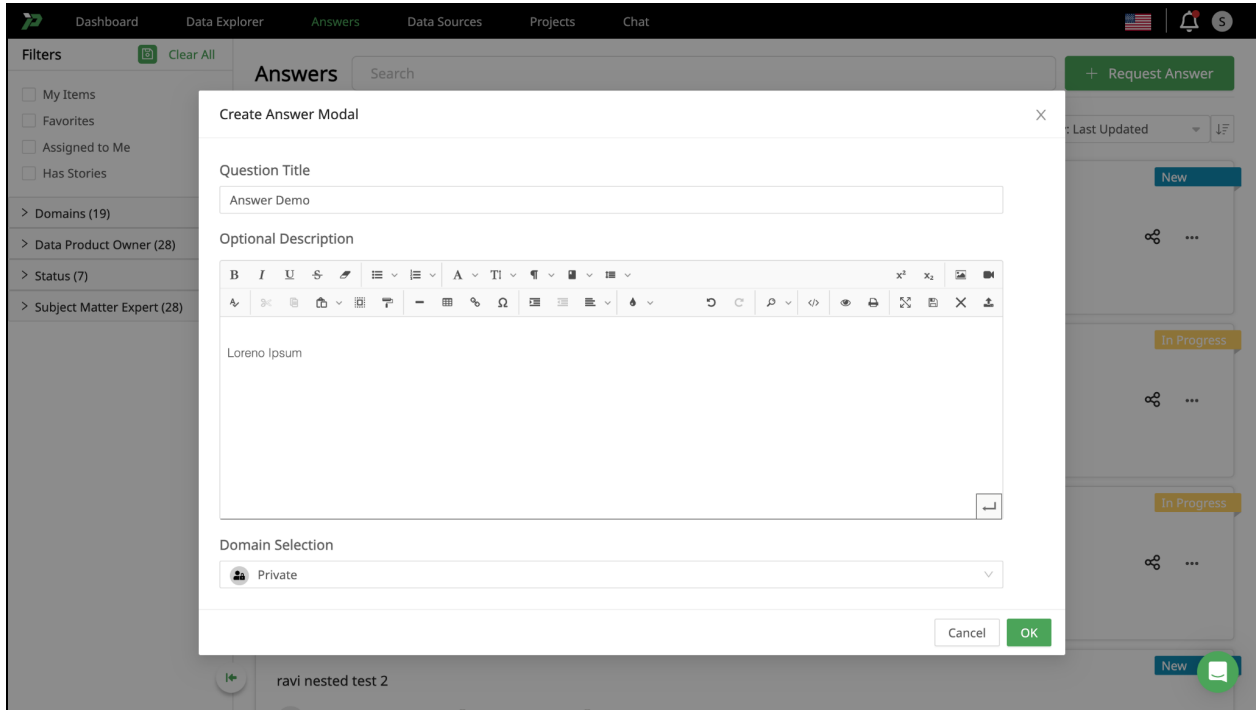


Feature	Description
Last Updated	Sort by the date of the last update
View Count	Sort by the number of times the Answer has been viewed (e.g. how popular the Answer is)
Dashboard Count	Sort by the number of Dashboards present within the Answer. A higher number may indicate a more valuable Answer.

Should you still not have found an Answer meeting your requirements you can quickly select Request Answer to begin that flow.

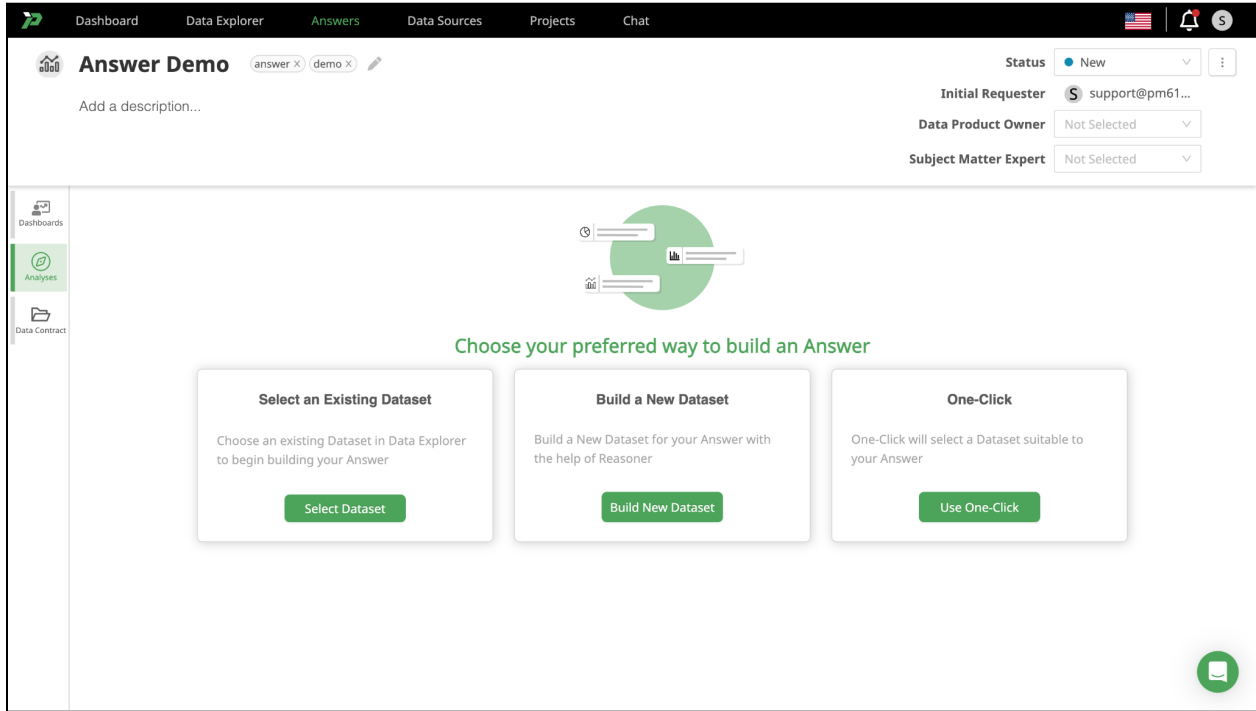
### Requesting an Answer

If you start this flow by clicking Request Answer from a results page, the search term that you failed to find an answer for will be used as the title for this new Answer. If you want to edit this, select the pencil icon next to the name and modify it to a more appropriate title.



If you start this flow by clicking Request Answer with no text in the search box you will be given an auto generated title consisting of your username and a date / timestamp.

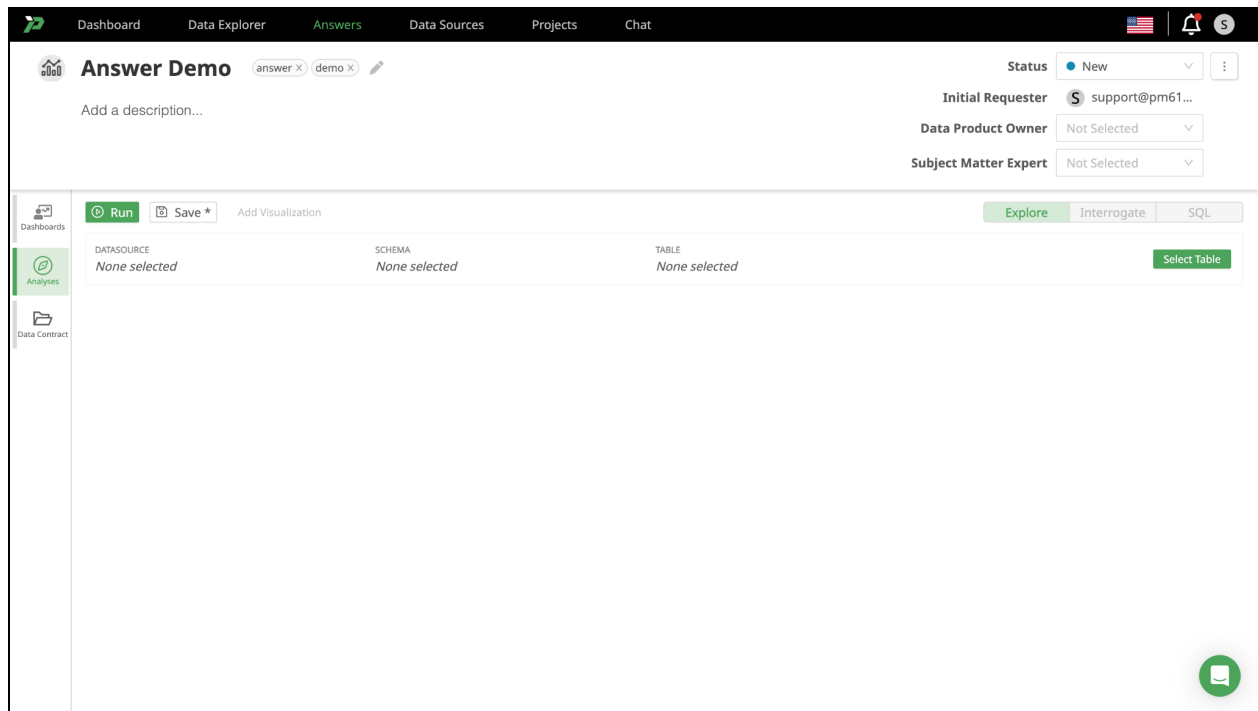
You can add/remove tags and even add a description to help the data team understand the context behind your need and answer the question completely. Tagging data and Answers enhances the search experience for all users. To add tags to an Answer click the Add button next to the title.



The three major steps to create an Answer are to build, select an existing datamap, or using One-Click to create visualizations.

### Select an Existing Dataset

To build an Answer using a pre-existing datamap choose Select an Existing Dataset.



First we must select at least one Datasource, Schema and Table. Click Select Table which will render the familiar Data Explorer user interface. Here, as with the Data Explorer tab you can search, filter and refine the available data sources to find what you need.

If you find what you need, select it and chose the green Analyze button

The screenshot shows the 'Answer Demo' interface. At the top, there are navigation tabs: Dashboard, Data Explorer, Answers, Data Sources, Projects, and Chat. The 'Answers' tab is active. Below the navigation, there's a header for 'Answer Demo' with a search bar containing 'revenue' and a 'New Datamap' button. To the right, there are fields for 'Status' (In Progress), 'Initial Requester' (support@pm61...), 'Data Product Owner' (Not Selected), and 'Subject Matter Expert' (Not Selected). Below this, there's a 'Filters' section with a search bar containing 'revenue' and a 'New Datamap' button. A table lists datamaps with columns: Schema, Name, Updated By, Last Updated, and Query. The table shows several entries for 'car\_sales\_revenue\_us\_canada' and 'sales\_data\_by\_company'. To the right of the table, there's an 'Overview' section with details for the selected datamap: Data Source (postgres2), Schema (customer\_demo), Type (Table), Columns (5 columns), and Rows (100 rows). There are also buttons for 'Mark as Duplicate', 'Add AI Description', and 'Add a description...'. A 'Domain' field is visible at the bottom right.

You will be returned to the Answer flow where you can search and filter the data available from your selected Datamap.

The screenshot shows the 'Answer Demo' interface. At the top, there are navigation tabs: Dashboard, Data Explorer, Answers, Data Sources, Projects, and Chat. The 'Answers' tab is active. Below the navigation, there's a header for 'Answer Demo' with a search bar containing 'revenue' and a 'New Datamap' button. To the right, there are fields for 'Status' (In Progress), 'Initial Requester' (support@pm61...), 'Data Product Owner' (Not Selected), and 'Subject Matter Expert' (Not Selected). Below this, there's an 'Analysis: car\_sales\_revenue\_us\_canada' section with buttons for 'Run', 'Save', 'Add Visualization', 'Explore', 'Interrogate', and 'SQL'. Below the analysis section, there's a search bar for 'Search your data'. Below the search bar, there's a table with columns: country, sales, date, year, and month. The table shows data for the US for the first six months of 2014.

country	sales	date	year	month
US	1006049	2014-01-01T00:00:00	2014	1
US	1186038	2014-02-01T00:00:00	2014	2
US	1529348	2014-03-01T00:00:00	2014	3
US	1381300	2014-04-01T00:00:00	2014	4
US	1598730	2014-05-01T00:00:00	2014	5
US	1412565	2014-06-01T00:00:00	2014	6

## Explore

Clicking the search field will trigger the display of all the available search verbs and nouns that are appropriate in context such as Sum, Count, etc. Simply by selecting the appropriate suggestions you can build a powerful query that will attempt to render using an appropriate format such as a table or graph.

Dashboard Data Explorer Answers Data Sources Projects Chat Subject Matter Expert Not Selected

Analysis: car\_sales\_revenue\_us\_canada

Run Save \* Add Visualization Explore Interrogate SQL

DATASOURCE postgres2 SCHEMA customer\_demo TABLE car\_sales\_revenue\_us\_canada

Count sales by country

by Group by operator  
is equal to Filter operator  
is not equal to Filter operator  
is not null Filter operator

Country	CountOf_sales
Canada	55
US	80

CountOf\_sales

# Interrogate

The Interrogate feature allows you to analyze data through the use of natural language.

The screenshot shows the 'Interrogate' interface. At the top, there's a navigation bar with 'Dashboard', 'Data Explorer', 'Answers', 'Data Sources', 'Projects', and 'Chat'. Below this, the 'Answer Demo' section includes a status dropdown set to 'In Progress', and fields for 'Initial Requester' (support@pm61...), 'Data Product Owner' (Not Selected), and 'Subject Matter Expert' (Not Selected). The main area displays an analysis titled 'Analysis: car\_sales\_revenue\_us\_canada' with a 'Run' button and a status '2 rows, 1 KB fetched and 244 ms runtime'. The data source is 'postgresql', the schema is 'customer\_demo', and the table is 'car\_sales\_revenue\_us\_canada'. A search bar contains the query 'count of sales by country'. Below the search bar, a table shows the results:

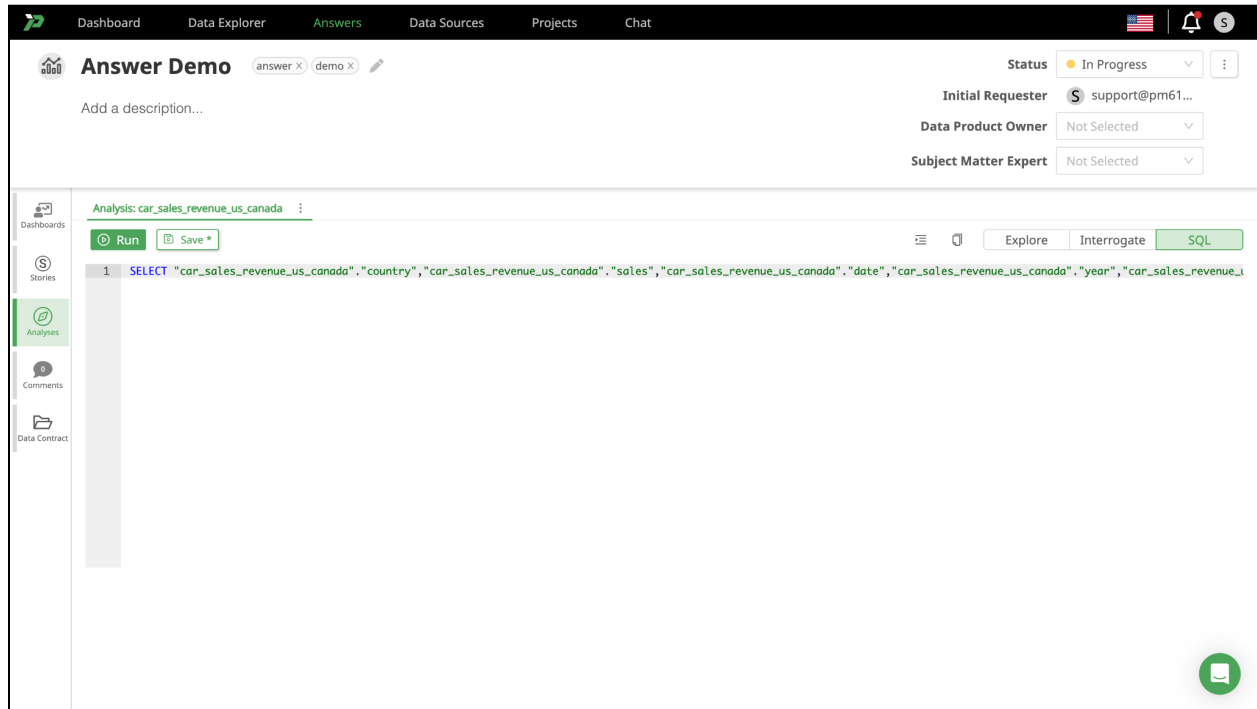
country	count of sales
US	84
Canada	84

This screenshot shows the same 'Interrogate' interface, but with a bar chart visualization. The chart is titled 'count of sales by country' and shows two bars: one for 'Canada' and one for 'US', both reaching a value of 84 on the y-axis. A 'Visual Types' menu is open, showing options for Column, Area, Line, Pie, and Other. The 'Column' option is selected. The interface elements at the top and the analysis title are identical to the previous screenshot.

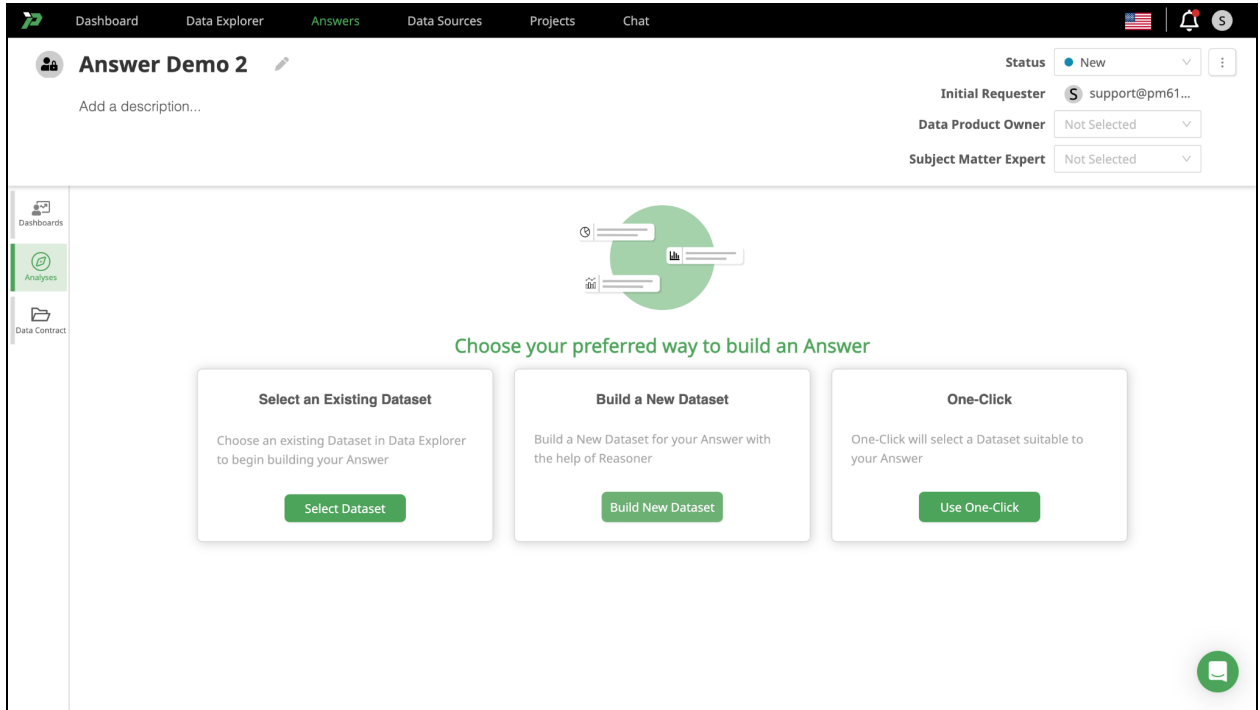
When you have a visualization appropriate to the Answer you can click Save and it will be added to your Dashboard.

## Query

Clicking the Query button at the top right will switch to the Query mode. Swapping between modes can cause some customizations to be lost. It is far more common to lose customizations when moving from the advanced views to the less advanced e.g. from Query to Explorer. Ensure you have saved and added any critical analysis before switching modes to prevent having to recreate it.

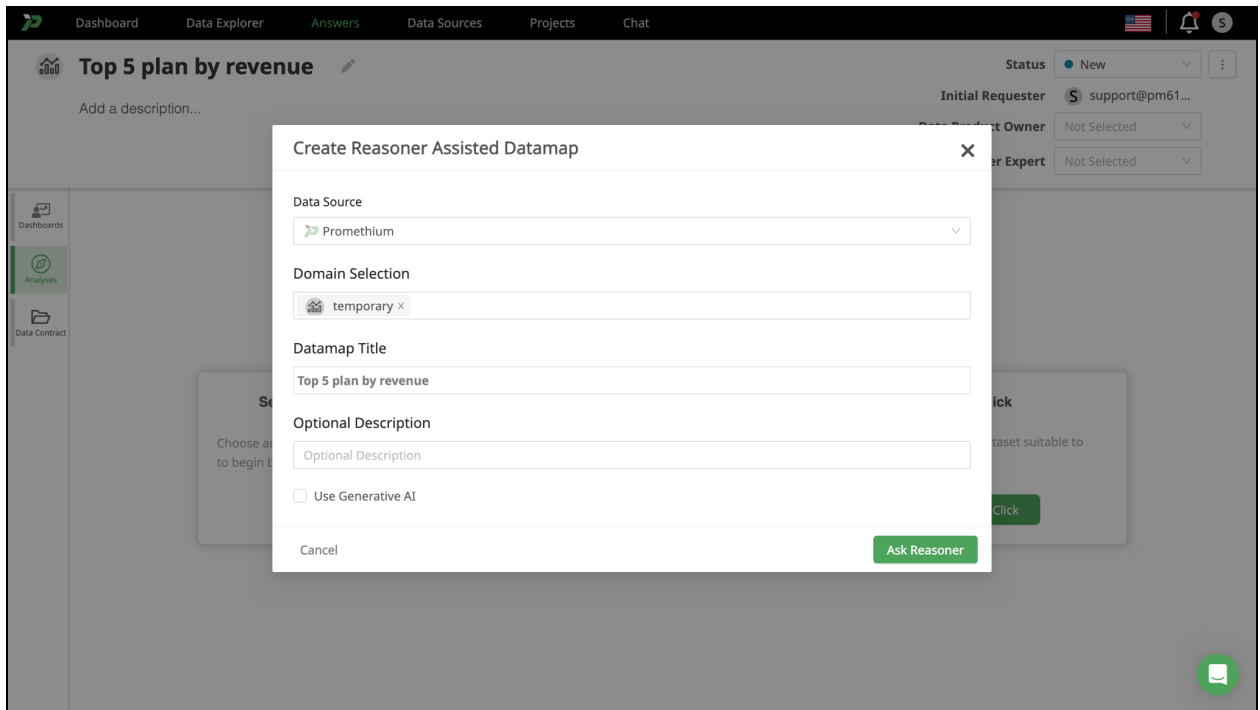


The Query view allows the user control over Source, Fields, Filters, Group By and Order By. Each can be selected and edited by clicking Edit.



### Build a New Dataset

When choosing to Build a New Dataset, it is important to remember when using Reasoner, Promethium uses key phrases used in the Data Map title to create your datamap, including parameters when asking a question.





Once the datamap is run and you are satisfied with the results, Save and Publish.

The screenshot shows the Data Explorer interface with a query pipeline and a table of results. The pipeline consists of the following steps: MASTER\_PLAN\_TABLE..., GROUP BY, ORDER BY, and TOP\_5\_PLAN\_BY\_REV... The table displays the top 5 plans by revenue.

planname	sum of revenue
Promo - Pilot Pro - 12mo w/3mo Savings - wActv	74.9925
Sirius XM ALL ACCESS - 1mo - wM Actv - wETF	58.97
Introductory - All Access - 12mo w/2mo Savings	58.97
Introductory - All Access - 24mo w/2mo Savings	58.97
All Access - 3mo - wActv	57.97

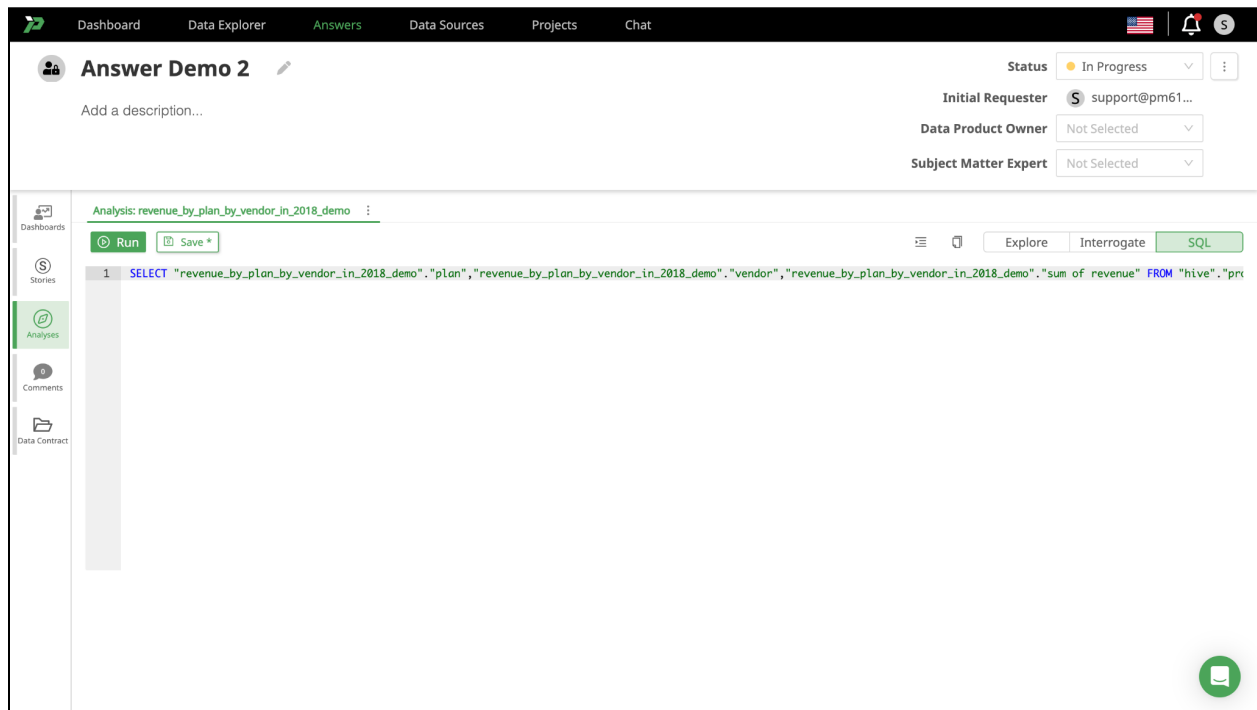
When you return to the Answer page, your dashboard will display visualizations based on the data.

The screenshot shows the Answer page dashboard for the 'Top 5 plan by revenue' analysis. The dashboard includes a status section (In Progress), initial requester (support@pm61...), and data product owner (Not Selected). The main visualization is a bar chart titled 'sum of revenue by planname' showing the revenue for five different plans.

Plan Name	sum of revenue
12 Month Service - 12 Month Term Bill	~13.5
2005 Promotion - 3 Year Plan - 359.64	~20.0
3 Year Promotion	~20.0
3 months free service w/ Monthly Serv	~13.5
A La Carte + Howard + Sports - 1mo	~13.5

## SQL

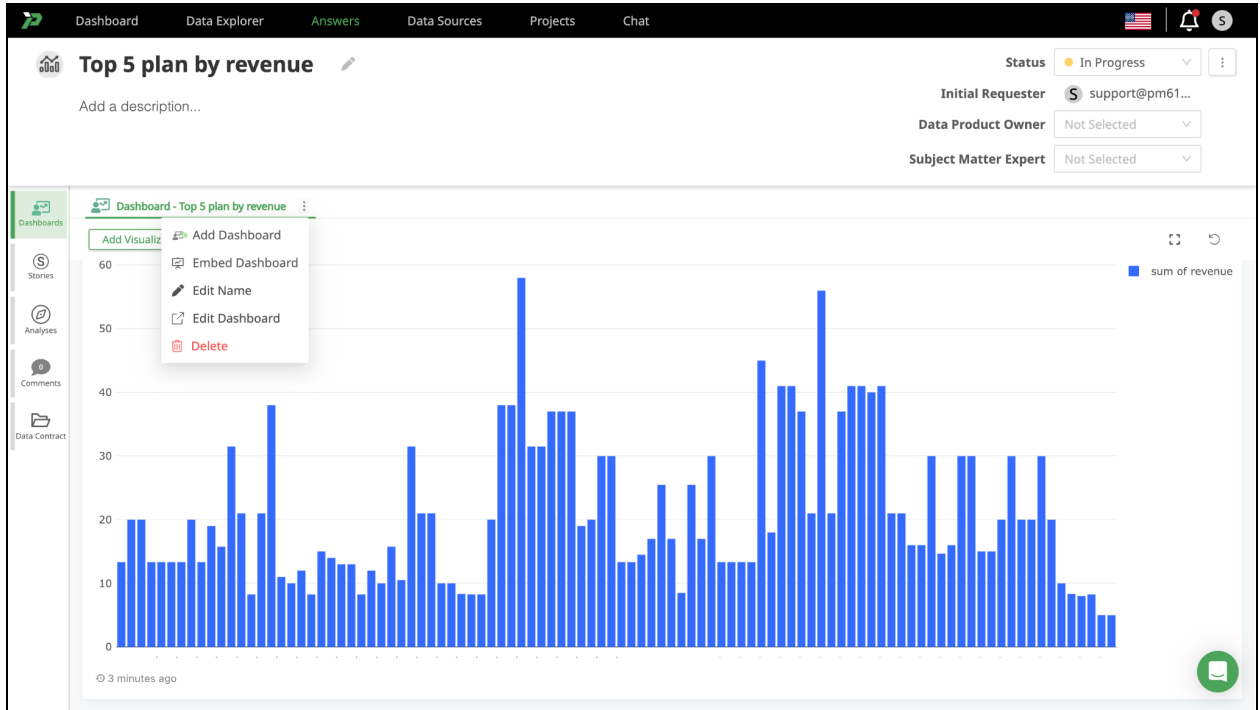
Clicking the SQL button at the top right will switch to the advanced SQL mode. Swapping between modes can cause some customizations to be lost. It is far more common to lose customizations when moving from the advanced views to the less advanced e.g. from Query to Explorer. Ensure you have saved and added any critical analysis before switching modes to prevent having to recreate it. The advanced SQL mode is a web based SQL IDE wherein you can modify and execute any changes you need to the SQL generated so far. The SQL shown below has been automatically generated through our use of the Explore and Query tabs so far.



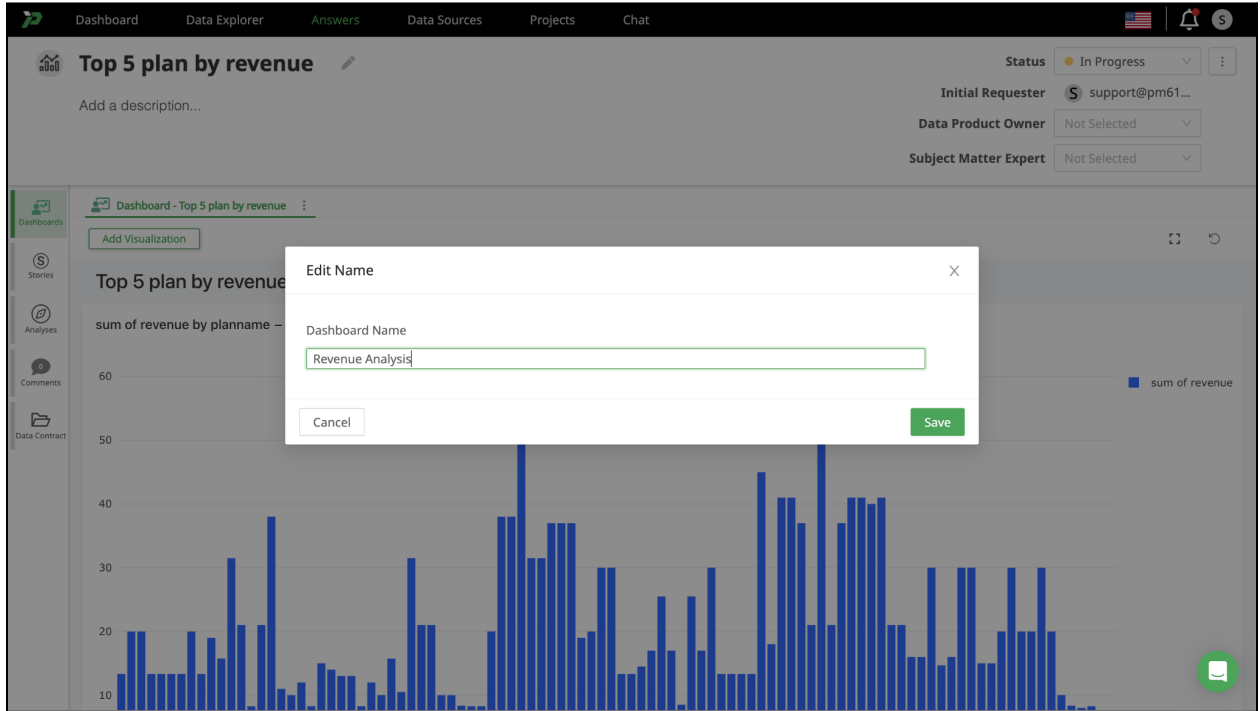
This view is intended for SQL experts. SQL is a powerful language and it's easy to encounter errors. Within this flow SQL error messages are limited in detail. The example below was caused by the simple removal of the final word in the previous example 'ONLY'. You can modify your SQL as often as required and click the Run button to execute the query. When you're satisfied with the results, click Save.

## Dashboard

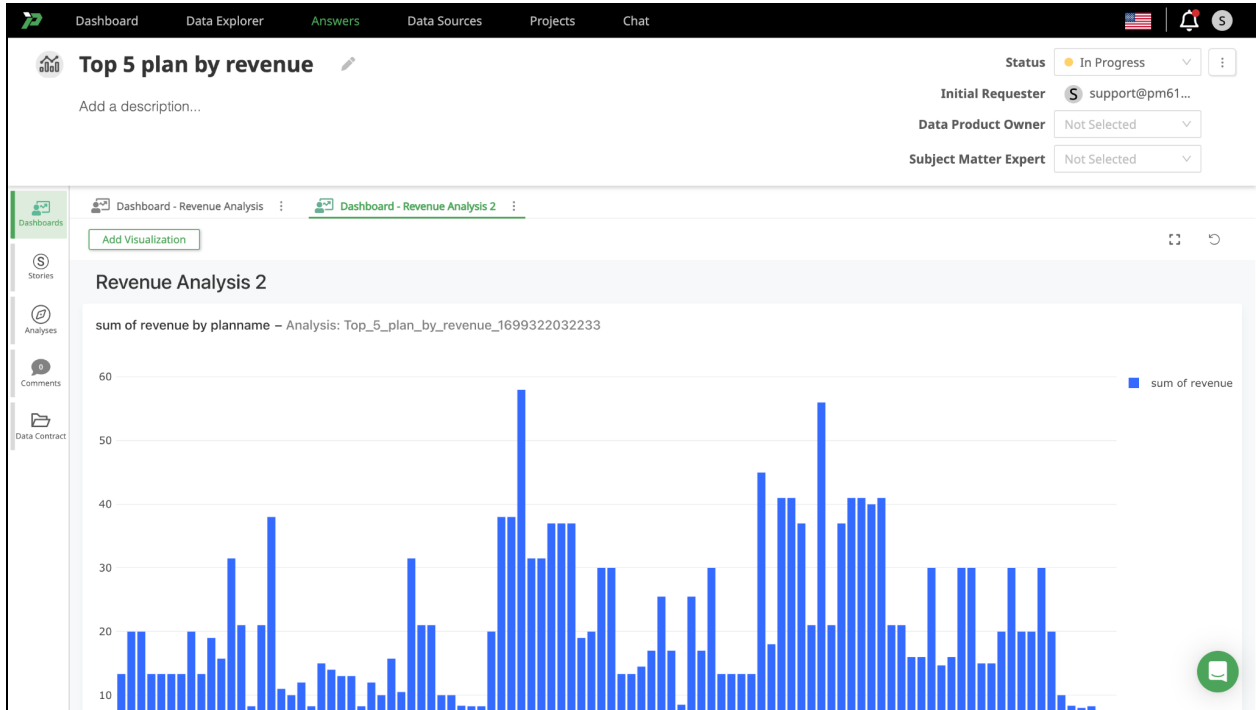
Everything you have saved from the Explore, Interrogate or SQL flow will be available on the default dashboard available within the Dashboards tab on the left of the screen.



You can rename the default dashboard by selecting the three dots to the right of the name and choosing Edit Name

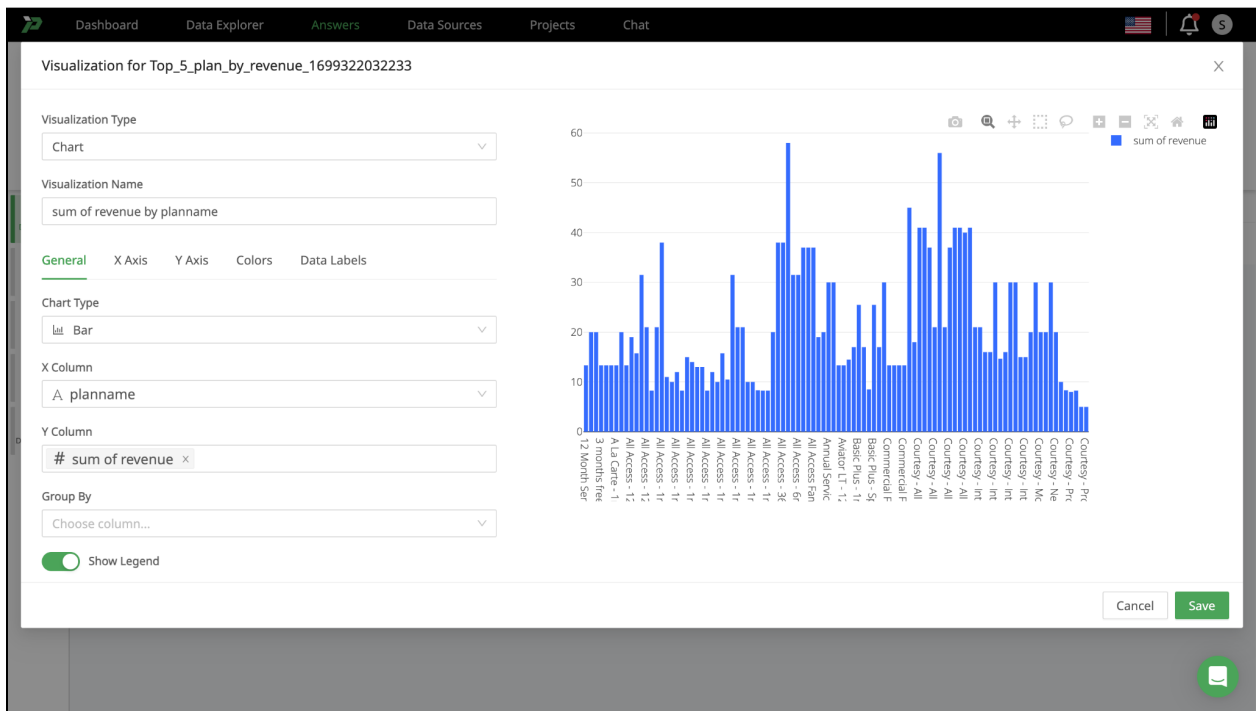


- Edit Dashboard opens the full Redash interface where you can create data alerts, modify the visual layout of your graphs or create new dashboards directly.
- Add Dashboard creates a new Dashboard tab on which you can add additional visualizations. There is currently a limit of 5 dashboards per Answer.



- You can also choose to embed a 3rd party dashboard. See Embed Dashboard below for details.

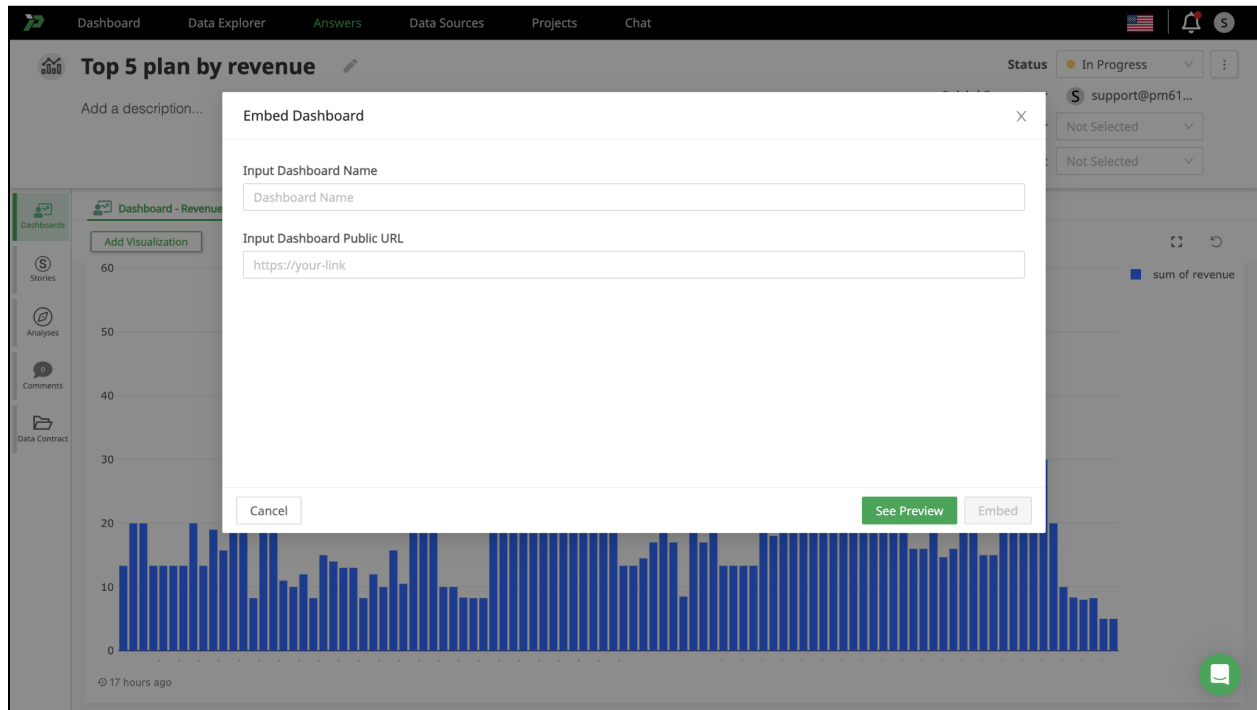
From the Dashboards page you can select **Add Visualization** to build a custom visualization (pivot table or graph) from data powering your dashboard.



## Embed Dashboard

If you have an existing dashboard or visualization created in a BI tool, such as Tableau, you can select Embed Dashboard and inform Promethium of the name and location.

The dashboard you connect must be available via a public URL and cannot require login to access. This link will be resolved and the dashboard rendered live to any future consumer of the Answer.



## Chatbot

By selecting Chat in the top navigation, you will be directed to Promethium's Chatbot. This feature enables you to interact using natural language to find the right datamaps/answers, construct datamaps, and generate answers. You'll have the option to preview outcomes before finalizing your choice, and any products created by the Chatbot will be accessible on the Data Explorer or Answers page.

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation

Find a Conversation...

Reasoner Chat

Search Conversation...

hello, build a new datamap

Reasoner: Please ask Promethium chat-bot your question

build me a new dataset that will show me revenue by plan by agent from 2015 to 2018

Reasoner: Would you like to search for a datamap that can answer your question?

yes

Reasoner: There are multiple data maps matching your request please select the one you want to use.

- Select Preview Dataset revenue\_by\_plan\_by\_agent\_from\_2015\_to\_2018\_1698792442549
- Select Preview Dataset average\_revenue\_by\_plan\_by\_agent\_by\_discount\_from\_2018\_to\_2020\_1698710997230
- Select Preview Dataset revenue\_by\_plan\_by\_vendor\_from\_2017\_to\_2019
- Select Preview Dataset What\_is\_revenue\_by\_plan\_by\_vendor\_from\_2018\_to\_2019\_1698527094585
- Select Preview Dataset average\_revenue\_by\_agent\_by\_discount\_from\_2018\_to\_2020\_1698701626847

Ask a Question

Dashboard Data Explorer Answers Data Sources Projects Chat

revenue by plan by agent from 2015 to 2018

date x agent... x See All

Show Code

Run Save Republish Build Answer

Directions: Promethium Default

Select: fact\_subscription\_activity

Inner Join: MASTER\_PLAN\_TABLE\_WDATES

Inner Join: dim\_agent

Filter: filter step

Group By: group\_by step

Limit Rows: 100

+ Add Step

plan	agente	sum of revenue
Fixed Demo - Select - 6mo - (Used Ca r)	Servicom	0
NavTraffic + NavWeather - 1mo - wActv	TeleServicesDirect	6.66
Promo - Select - Semi-Annual - (25% o ff)	Servicom	11.24
Promo - Voyager + All Access - 6mo - (Half-off) - 1X	TeleServicesDirect	11.99
Promo - All Access - 6mo (49.99) - 1X	DialAmerica	8.3317

100 rows, 20 KB fetched and 3 seconds runtime

< 1 2 >

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation

Find a Conversation...

Conversation 1

Reasoner Chat

Search Conversation...

Find me the top 5 plans with the highest revenue

Reasoner

There are multiple answers matching your request please select the one you want to use.

- Select Preview Answer revenue\_by\_plan\_by\_vendor\_in\_2018
- Select Preview Answer What\_is\_the\_revenue\_subscription\_by\_vendor\_by\_package\_from\_2013\_to\_2019
- Select Preview Answer Active Radio Subscriptions
- None are Applicable

Ask a Question

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation Reasoner Chat Search Conversation...

Find a Conversation...

Conversation 1

Revenue\_by\_plan\_by\_vendor\_in\_2018 Preview

revenue\_by\_plan\_by\_vendor\_in\_2018

Analysis: revenue\_by\_plan\_by\_vendor\_in\_2018

plan	vendor	SumOf_sum of revenue
Promo - Voyager + All Access Family Friendly - 6mo - (Half-off) - 1X	DialAmerica	11.99
Long Term Plan - All Access - 5 yrs (WBOVCORP)	Results	3.32
Promo - All Access - Semi-Annual - (25% off)	Transparent	15.74
Fleet - All Access - 1mo - wActv - 13.49	Ipacesetters	13.49
Introductory - Pilot Preferred - 24mo w/2mo Savings - wActv	DialAmerica	15.99
Promo - All Access - 12mo - 119.88 - wETF (6mo50) - AMZ DOT-G3 - (OLPT)	Results	9.99
Promo - All Access - 6mo - 49.99 - wETF (6mo50) - AMZ DOT-G3 - (OLPT)	TeleServicesDirect	8.33
Promo - Select - 6mo - 54.00 - (\$9.00/mo)	Results	9.00
Promo - Select - Semi-Annual - (25% off)	Servicom	11.24
Promo - All Access - 12mo - 179.88	Results	14.99

Done

the highest revenue S

Ask a Question

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation Reasoner Chat Search Conversation...

Find a Conversation...

Conversation 1

Find me the top 5 plans with the highest revenue S

Reasoner

There are multiple answers matching your request please select the one you want to use.

Select Preview Answer revenue\_by\_plan\_by\_vendor\_in\_2018

Select Preview Answer What\_is\_the\_revenue\_subscription\_by\_vendor\_by\_package\_from\_2013\_to\_2019

Select Preview Answer Active Radio Subscriptions

None are Applicable

revenue\_by\_plan\_by\_vendor\_in\_2018 S

Reasoner

You selected [revenue\_by\_plan\_by\_vendor\_in\_2018] answer. - Does this answer your question?

Ask a Question



# revenue\_by\_plan\_by\_vendor\_in\_2018

Add a description...

Status Published

Initial Requester ravi@pm61 data...

Data Product Owner Not Selected

Subject Matter Expert Not Selected

Dashboard Dashboard - revenue\_by\_plan\_by\_vendor\_in\_2018

Add Visualization

## revenue\_by\_plan\_by\_vendor\_in\_2018

Analysis: revenue\_by\_plan\_by\_vendor\_in\_2018

plan	vendor	SumOf_sum of revenue
Promo - Voyager + All Access Family Friendly - 6mo - (Half-off) - 1X	DialAmerica	11.99
Long Term Plan - All Access - 5 yrs (WBOVCORP)	Results	3.32
Promo - All Access - Semi-Annual - (25% off)	Transparent	15.74
Fleet - All Access - 1mo - wActv - 13.49	Ipacesetters	13.49
Introductory - Pilot Preferred - 24mo w/2mo Savings - wActv	DialAmerica	15.99
Promo - All Access - 12mo - 119.88 - wETF (6mo50) - AMZ DOT-G3 - (OLPT)	Results	9.99
Promo - All Access - 6mo - 49.99 - wETF (6mo50) - AMZ DOT-G3 - (OLPT)	TeleServicesDirect	8.33
Promo - Select - 6mo - 54.00 - (\$9.00/mo)	Results	9.00
Promo - Select - Semi-Annual - (25% off)	Servicom	11.24
Promo - All Access - 12mo - 179.88	Results	0.00

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation

Find a Conversation...

Reasoner Chat

Search Conversation...

build me a new dataset, revenue by plan by agent from 2015 to 2017

Reasoner

Would you like me to run automode for question [revenue by plan by agent from 2015 to 2017] and build new datamap?

yes

Reasoner

Here is the datamap I built for you. Shall I build an answer using this datamap?

Select Preview Dataset revenue by plan by agent from 2015 to 2017

This is not what I want

Reasoner

Here is your Answer:

Select Preview Answer revenue by plan by agent from 2015 to 2017

This is not what I want

Ask a Question

Dashboard Data Explorer Answers Data Sources Projects Chat

+ New Conversation

Reasoner Chat

Search Conversation...

Find a Conversation...

Conversation 1

Revenue By Plan By Agent From 2015 To 2017 Preview

revenue\_by\_plan\_by\_agent\_from\_2015\_to\_2017\_1699377352058

Analysis: revenue\_by\_plan\_by\_agent\_from\_2015\_to\_2017\_1699377352058

planname	agente	sum of revenue
Marine Offshore - 24mo w/3mo Free - wActv	Results	6.66
Promo - Traffic - 5mo - 10.00 (5FOR10)	DialAmerica	6.66
Mostly Music - 1mo - wActv	Results	9.99
Promo - Premier - 24mo	DialAmerica	6.66
Promo - Marine Offshore - 6mo - (Half-off) - 1X	TeleServicesDirect	14.99
Promo - Select Plus SXIR - 12mo - 89.00 - (Half-Off) - 1X	TeleServicesDirect	7.41
Promo - All Access - 6mo (49.99) - (OAC) - 1X	TeleServicesDirect	8.33
Long Term Plan - Select - 3 yrs	Servicom	2.75
Travel-Link - 12mo w/1mo Free	DialAmerica	6.66
News-Sports-Talk - 3mo	Results	10.99

Done

Dashboard Data Explorer Answers Data Sources Projects Chat

Reasoner Chat

build me a new dataset, revenue by plan by agent from 2015 to 2017

Reasoner: Would you like me to run automode for question [revenue by plan by agent from 2015 to 2017] and build new datamap?

yes

Reasoner: Here is the datamap I built for you. Shall I build an answer using this datamap?

Select Preview Dataset revenue by plan by agent from 2015 to 2017

This is not what I want

Reasoner: Here is your Answer:

Select Preview Answer revenue by plan by agent from 2015 to 2017

This is not what I want

Reasoner: Great, Promethium chat-bot is happy to help! How else can I help?

Ask a Question

Dashboard Data Explorer Answers Data Sources Projects Chat

revenue by plan by agent from 2015 to 2017

Status: In Progress

Initial Requester: support@pm61...

Data Product Owner: Not Selected

Subject Matter Expert: Not Selected

Dashboard - revenue\_by\_plan\_by\_agent\_from\_...

Add Visualization

revenue\_by\_plan\_by\_agent\_from\_2015\_to\_2017\_1699377352058

Analysis: revenue\_by\_plan\_by\_agent\_from\_2015\_to\_2017\_1699377352058

planname	agente	sum of revenue
Introductory - Travel-Link + Traffic - 12mo w/1mo Savings - wActv	DialAmerica	6.66
Fleet - All Access - 12mo - wActv - 167.88	Results	13.99
Promo - Select - 6mo - 29.94SelfPay	DialAmerica	4.99
Aviator - 1mo - wActv	Results	6.66
Promo - Select Family Friendly - 6mo w/3mo Free - (Half-Off) - 1X	DialAmerica	7.00
Promo - Select - 6mo - 24.99 (6for25) - WBFB	TeleServicesDirect	4.17
Commercial Family - 1mo - (DSTR) - w/Actv	DialAmerica	6.66
Marine Offshore - 6mo - wActv	TeleServicesDirect	6.66
Commercial Family - 1mo - (D2B) - wActv	Results	6.66
Mostly Music - 3mo	Convergys	6.66
A La Carte Gold - 1mo - wActv	Results	6.66