



Model data from database tables

System and user requirements

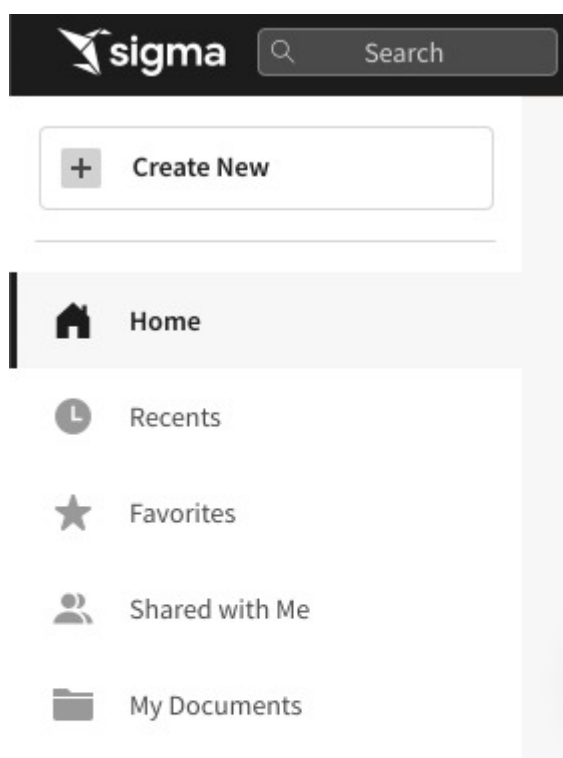
The ability to model data from database tables requires the following:

- Your organization must be [connected to a data source](#) (CDW or DBMS).
- You must be assigned an [account types](#) with the **Manage connections** permission enabled.
- You must be granted **Can use & annotate data permission** for the connection.

Annotate Tables

Find Relevant Tables

1. Locate the Data Catalog in Sigma's left hand navigation panel. Under Connections, click to select which data connection you would like to explore.



Need help?

The team will reply as soon as they can





2. From the data catalog, click on the table you would like to annotate.

Search

F_POINT_OF_SALE ⓘ ☆

Edit Explore

Sigma Sample Database

EXAMPLES

- BIKES
- BITCOIN
- CENSUS
- COMMERCE
- ECOMMERCE
- FAA
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- GEO_JSON
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- LOG_DATA
- PLUGS_ELECTRONICS
 - D_CUSTOMER
 - D_GEOJSON_US_COUNTIES
 - D_GEOJSON_US_STATES
 - D_PRODUCT
 - D_STORE
 - F_POINT_OF_SALE**
 - F_SALES
 - PLUGS_ELECTRONICS_HANDS...
- RETAIL
- SALESFORCE
- SF_RESTAURANTS
- STOCKS
- SYNPUFS
- TAXI
- USA_NAMES
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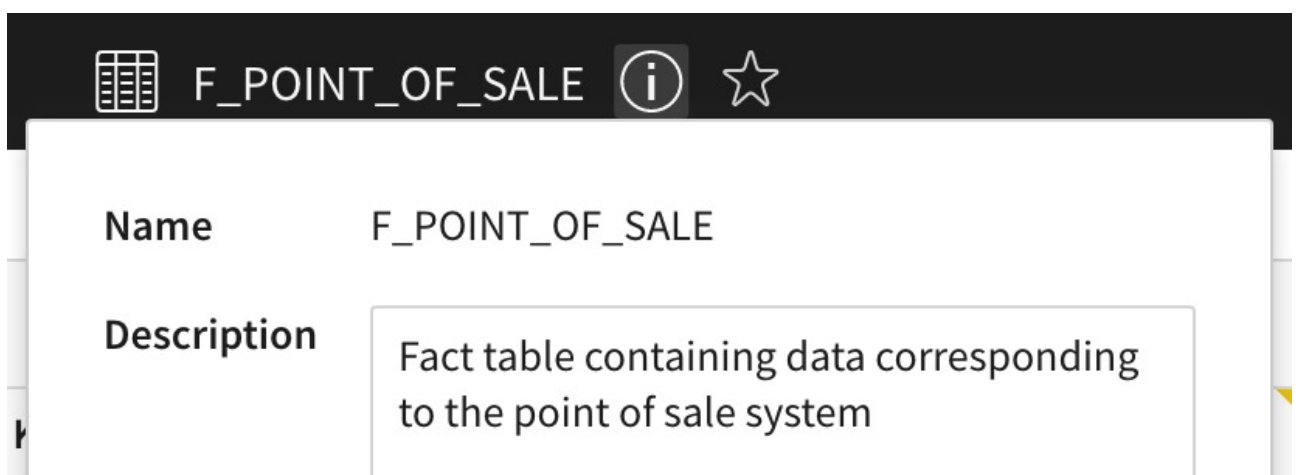
Overview Columns Links Lineage Permissions

4,584,628 Rows - 5 Columns

Order Number	Product Key	Sales Quantity	Sales Amount	Cost Amount
214610	128	2	503	112.169811
214611	906	2	671	149.654088
214611	146	2	303	67.578616
214661	901	3	706.5	157.578616
214662	110	2	366	81.63522
214662	855	2	240	53.522013
214665	927	2	576	128.459119
214993	925	2	198	44.150943
214993	935	1	115	25.660377
214995	935	2	230	51.289308
215045	855	2	240	53.522013
215047	883	2	240	53.522013
215047	925	2	198	44.150943
215096	979	2	891	198.710692
215096	967	1	115	25.660377
215097	953	3	297	66.226415
215099	947	1	199	44.371069
215149	863	3	691.5	154.213836
215150	882	1	52	11.603774
215209	851	3	1746	389.402516
215209	952	3	675	150.534591
215211	903	3	171	38.144654
215211	143	2	2361	526.572327
214711	976	2	272.5	60.77044
214711	106	2	109.5	24.418239
214759	909	2	183	40.81761
214761	887	2	414	92.327044
214446	264	3	360	120.424528
214447	289	2	2277	761.745283
214505	259	1	382.5	127.971698
214506	424	2	345	115.424528
214508	403	2	198	66.226415
214509	403	1	99	33.113208
214509	443	1	115	38.490566
214559	616	2	198	66.226415
214561	641	1	1018	340.566038
214561	636	2	230	76.933962
214609	704	3	171	57.216981
214610	646	2	723	241.886792
214610	702	2	198	66.226415
214610	744	1	235.5	78.773585
214612	471	2	482	161.726415

Add a Description

1. Open the Table.
2. Click the **Edit** button in the Table header.
3. Click the information icon (i) in the Table header.
4. Enter a description in the **Description** field of the Table details popup.




Badge

None

?


Connection

 Sigma Sample Database

Last Updated

12 days ago by Sigma Admin

Last Synced



6 minutes ago 

Location


EXAMPLES.PLUGS_ELECTRONICS

Format Columns

1. Open the Table.
2. Click the **Edit** button in the Table header.
3. Find the column that you would like to format, and click the arrow next to the column name to open the column menu.
4. Under **Format**, choose the formatting option that you would like to apply.

F_POINT_OF_SALE	
123	123
128	906
146	901
110	855

 Sigma Sample Database

EXAMPLES

BIKES
BITCOIN
CENSUS
COMMERCE
ECOMMERCE
FAA
FIN_TECH
GEO_JSON
HR
INSTACART_DEMO
LOG_DATA
PLUGS_ELECTRONICS
D_CUSTOMER

Overview

Columns

Links

Lineage

Permissions

Edit cell values

Order Number

Product Key

Sales Qua

21461

21461

21461

21466

21466

21466

21466

21466

21499

21499

21499

215045

215047

215047

215096

215096

215097

215099

215149

215150

215209

Sort Order

Ascending

Descending

Sorting...

Format

Column Details...

Automatic

Plain Text

Number

Percent

Scientific

SI Units

Currency

Financial

1234.56

1,234.56

1.23e4

1.2k

\$1,234.56

(1,234.56)

D_GEOJSON_US_COUNTIES	215209		Whole Number	1,234
D_GEOJSON_US_STATES	215211		Custom...	
D_PRODUCT	215211			
D_STORE	214711		Decrease decimal places	
F_POINT_OF_SALE	214711		Increase decimal places	
F_SALES	214759			
PLUGS_ELECTRONICS_HANDS...	214761	887		
	214446	264		
	214447	289		
	214505	259		

5. Click **Publish** to save your changes.

Add Column Descriptions

1. Open the Table.
2. Click the **Edit** button in the Table header.
3. Click to open the **Column** tab.
4. Enter a new description in the column's description input field.

The screenshot shows the Sigma Table Editor interface. On the left is a navigation pane with a tree view of the database schema. The main area is titled 'Table Configurations' for the 'F_POINT_OF_SALE' table. It has tabs for 'Overview', 'Columns', 'Links', 'Lineage', and 'Permissions'. The 'Columns' tab is active, showing a list of 7 columns. The 'Description' column is highlighted with a red box, indicating the input field for adding a description.

Column ID	Friendly Name	Visibility	Type	Format	Is Editable	Description
ORDER_NUMBER	Order Number	Included	123	Automatic	On	Unique number associated with an order
ORDER_NUMBER - link	ORDER NUMBER Link	Available	123		Off	Add Description...
PRODUCT_KEY	Product Key	Included	123	Automatic	On	Unique number associated with a product
PRODUCT_KEY - link	PRODUCT KEY Link	Available	123		Off	Add Description...
SALES_QUANTITY	Sales Quantity	Included	123	Automatic	On	Quantity of products ordered
SALES_AMOUNT	Sales Amount	Included	123	Automatic	On	Total sales amount of products ordered
COST_AMOUNT	Cost Amount	Included	123	Automatic	On	Total cost amount of products ordered

5. Click **Publish** to save the changes

Create Datasets

Create Datasets From Tables

Table based datasets allow you to bundle formulas, data transformations, filters, groupings and parameters into a rich data source that others can build on. Datasets can also be materialized back to your database, helping speed up analysis.

Locate Data

1. Locate the left-hand navigation panel.

2. Click on **Connections**.
3. Find the warehouse table you would like to use as a data source.
4. Click the down arrow button to the right of the Explore button, in the page header.

Order Number	Product Key	Sales Quantity	Sales Amount	Cost Amount
214610	128	2	503	112.169811
214611	906	2	671	149.654088
214611	146	2	303	67.578616
214661	901	3	706.5	157.578616
214662	110	2	366	81.63522
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214711	976	2	272.5	60.77044
214711	106	2	109.5	24.418239
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214761	887	2	414	92.327044
214446	264	3	360	120.424528
214447	289	2	2277	761.745283
214505	259	1	382.5	127.971698

5. Give the dataset a name and select the location to save it in.

Add a Description

1. Open the dataset.
2. Click the information icon (i) in the page header. This will open the page's info popup.
3. Enter a description in the Description field of the dataset details popup.


F_POINT_OF_SALE
(i)
☆
⋮

Name


Description




Badge

None
?

Owner	You
Connection	 Sigma Sample Database
Last Updated	a few seconds ago by you
Location	My Documents

Add or Update a Badge



1. Open the dataset.
2. Click the information icon () in the page header. This will open the page's info popup.
3. Select a badge type from the Badge dropdown list.

 F_POINT_OF_SALE  |  :

Name

Description

Badge

None



None
Deprecated
Warning
Endorsed





Owner

Connection

Last Updated

Location	My Documents
----------	--------------

4. [optional] Add a note to provide context for later reference or other teammates.


F_POINT_OF_SALE

ENDORSED





Name

F_POINT_OF_SALE

Description

Badge

Endorsed

Badged By

a few seconds ago by you


Badge Note

Up-to-date Point of Sale data

Owner

You

Connection

 Sigma Sample Database

Last Updated

7 minutes ago by you

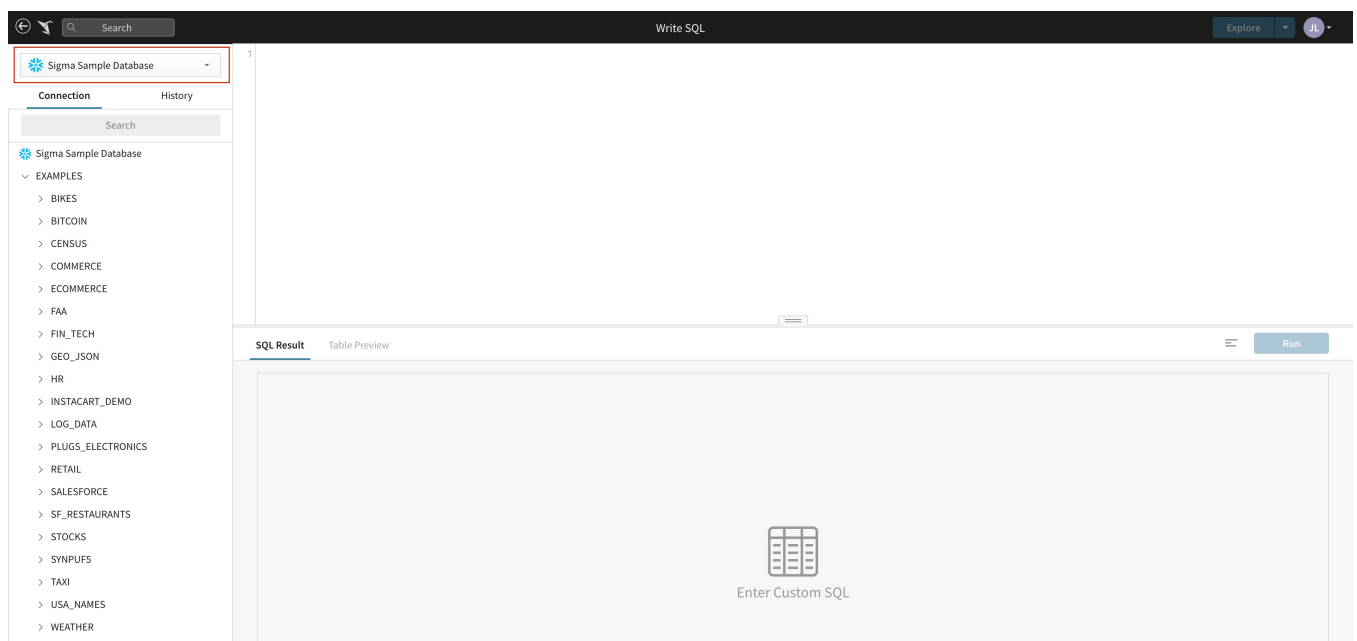
Location

My Documents

Create Datasets from SQL

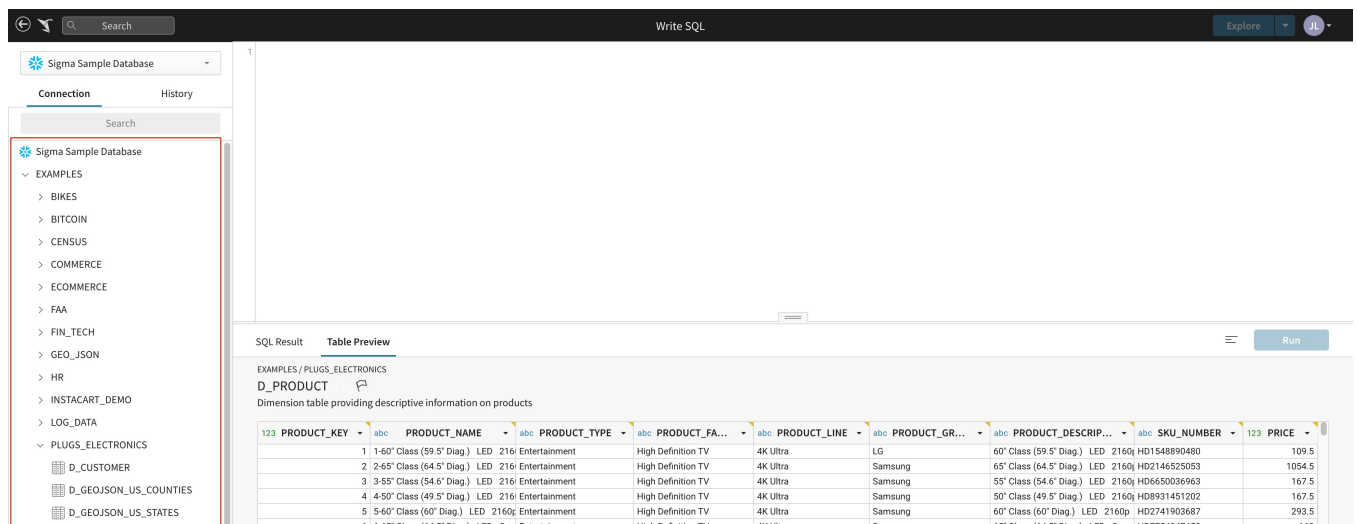
SQL based datasets take SQL queries and turn them into reusable data sources that people can use as the basis for additional analysis. Datasets can also be materialized to your database, helping speed up queries. Any changes made to a dataset will be propagated forward to any downstream documents.

1. Click the **Create New** button in the left navigation panel.
2. Select **Dataset**. This will take you to the **Select a Data Source** page.
3. Under **SQL**, click **Select**.
4. Select your desired warehouse connection from the dropdown list.



5. The database object panel on the left side of the page will allow you to explore your connection.

6. [optional] Click on any table to preview its data.



D_PRODUCT	7	7-55" Class (54.6" Diag.)	LED	216i Entertainment	High Definition TV	4K Ultra	Samsung	55" Class (54.6" Diag.)	LED	2160j HD5471457577	419.5
D_STORE	8	8-55" Class (54.6" Diag.)	LED	Cur Entertainment	High Definition TV	4K Ultra	Samsung	55" Class (54.6" Diag.)	LED	Curve HD7350004591	172.5
F_POINT_OF_SALE	9	9-55" Class (54.6" Diag.)	LED	216i Entertainment	High Definition TV	4K Ultra	Samsung	55" Class (54.6" Diag.)	LED	2160j HD3763175147	109.5
F_SALES	10	10-60" Class (60" Diag.)	LED	216i Entertainment	High Definition TV	4K Ultra	Samsung	60" Class (60" Diag.)	LED	2160p HD1134786088	456
PLUGS_ELECTRONICS_HANDS...	11	11-40" Class (40" Diag.)	LED	216i Entertainment	High Definition TV	4K Ultra	Samsung	40" Class (40" Diag.)	LED	2160p HD3597731336	109.5
	12	12-50" Class (49.5" Diag.)	LED	21i Entertainment	High Definition TV	4K Ultra	Samsung	50" Class (49.5" Diag.)	LED	2160j HD1537819291	1159.5
	13	13-65" Class (64.5" Diag.)	LED	Cu Entertainment	High Definition TV	4K Ultra	Samsung	65" Class (64.5" Diag.)	LED	Curve HD4172546894	1002

7. To write SQL, begin typing keywords into the text box in the top half of the screen. Sigma will automatically provide a list of autocomplete options to guide you.

8. To run your SQL query, click the Run button in the center-right portion of the page.
Keyboard shortcuts: CTRL-Enter on a PC or CMD-Enter on a Mac.

9. Click the caret () next to the Explore button in the dataset header.

10. Select Create Dataset.

Delete a dataset

To delete a dataset you must be the owner of the dataset, have **Can edit** access to it, or have the **Admin** account type.

1. Click the caret () next to the dataset name, then click **Delete...**
2. On the **Confirm Deletion** modal, click **Delete**.

Recover a deleted dataset

To recover a dataset that has been deleted, you must be the owner of the dataset or have the **Admin** account type.

1. Go to your **Home** page.
2. In the navigation menu, select **Trash**.
3. In the **Trash** page, search the list of deleted documents and click the one you want to recover. You can sort the **Name**, **Deleted on**, or **Deleted by** columns to help identify the applicable document.
4. In the **Document has been deleted** modal, click **Recover**. Sigma immediately opens the recovered document.

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