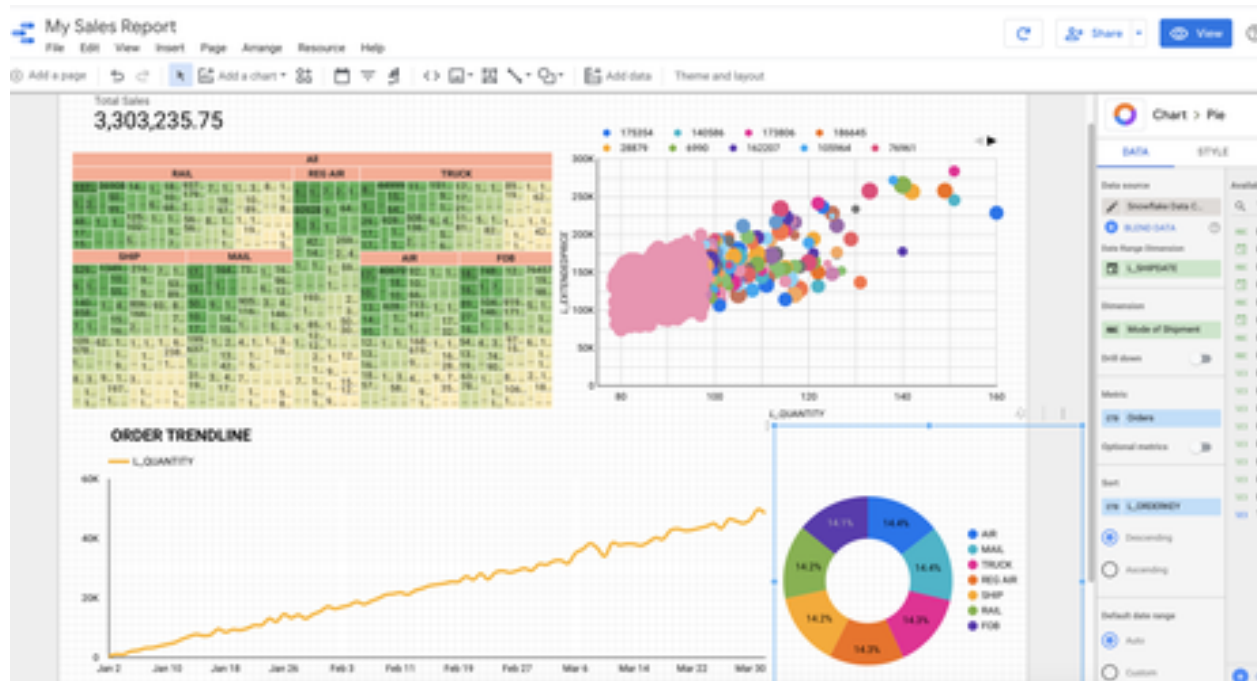


# Snowflake Google Data Studio Connector - V2



This is the improved version of the original connector that is used to access Snowflake data from Google Data Studio using SQL queries.

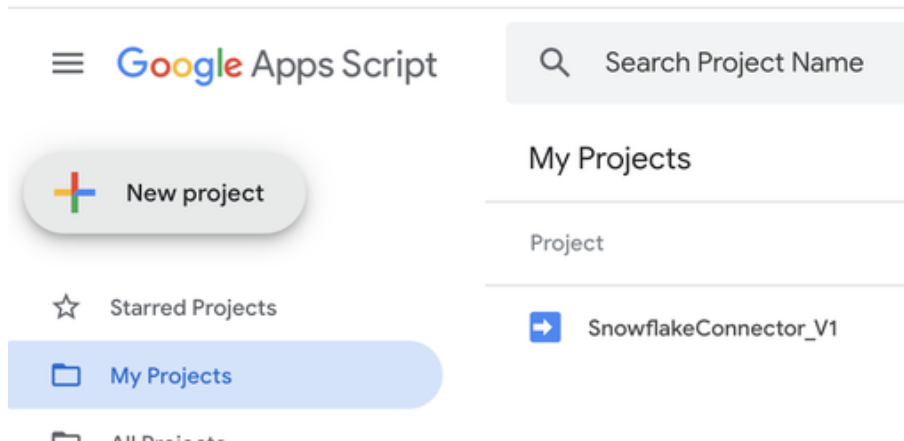
Improvements on this version are:

- Added Snowflake Logo
- Added Role (required)
- Modified Database Name to be optional
- Modified Schema Name to be optional
- Fixed a bug causing large datasets to fail.

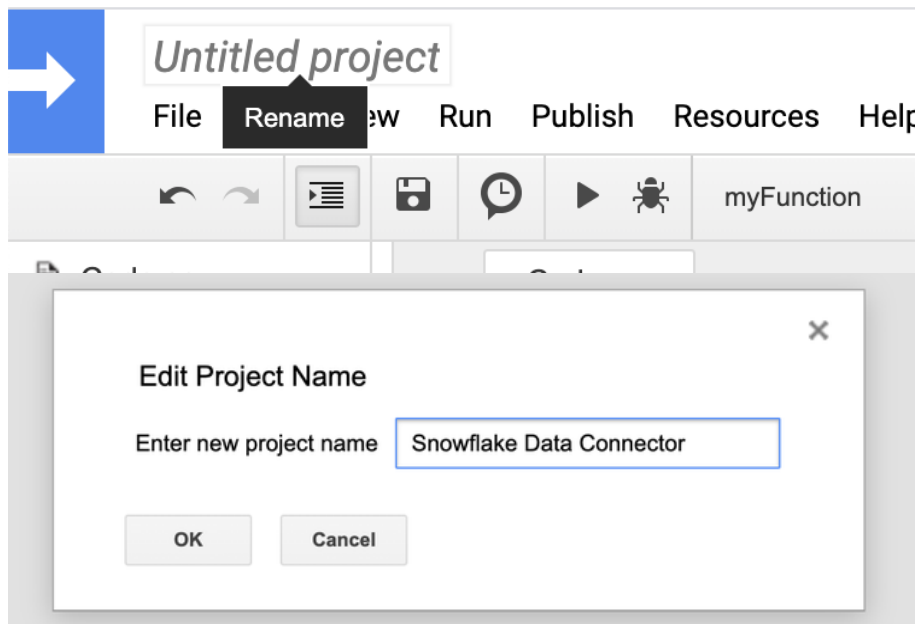
**Bug Fix:** The initial version was only designed to process results if the resulting dataset was part of the incoming response. Snowflake REST API will return the actual results if the result dataset is not too big. Once the query results exceed a threshold, it will place the results in multiple Blob storage areas as files and return a list of links to these files for each portion of the data. In this case, code needs to download each file from blob storage and piece the resulting data together to present as the final resultset. Original code did not have this routing and would return no results if the response was stored as files in buckets.

## INSTALLATION

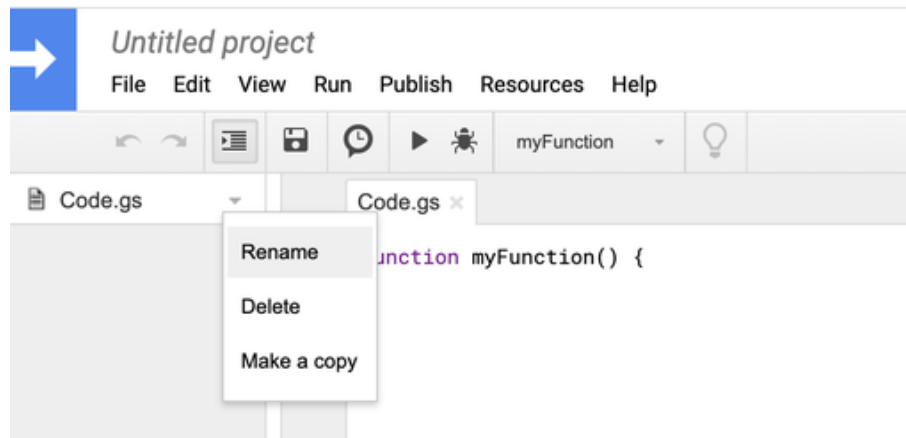
1. Browse to [https://github.com/NickAkincilar/Snowflake\\_Google\\_Data\\_Studio\\_Connector/tree/master/Code](https://github.com/NickAkincilar/Snowflake_Google_Data_Studio_Connector/tree/master/Code) & download the 3 files .
2. Login to <https://script.google.com/home> (Use a personal GMAIL account as corp user may have restrictions)
3. Create a New Project



5. Give the project a name example “Snowflake Data Connector” & Save it ( *if warned about Enable new Apps Script runtime powered by Chrome V8 for this project. At any point during install. ACCEPT IT!* )



6. Rename the **Code.gs** to [main.gs](#)

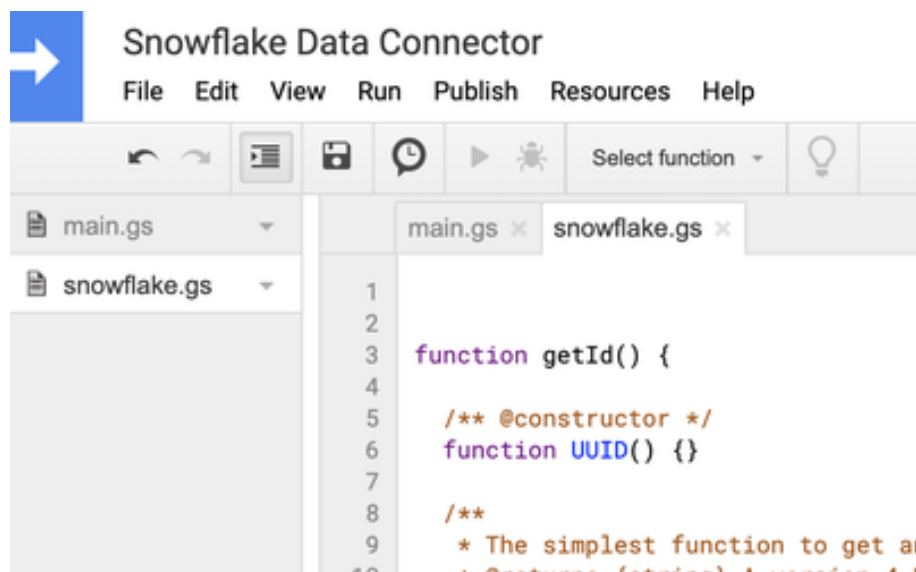


6. Copy & Paste the code from **main.gs** that you downloaded earlier into **main.gs** file in your project. Then Save it.

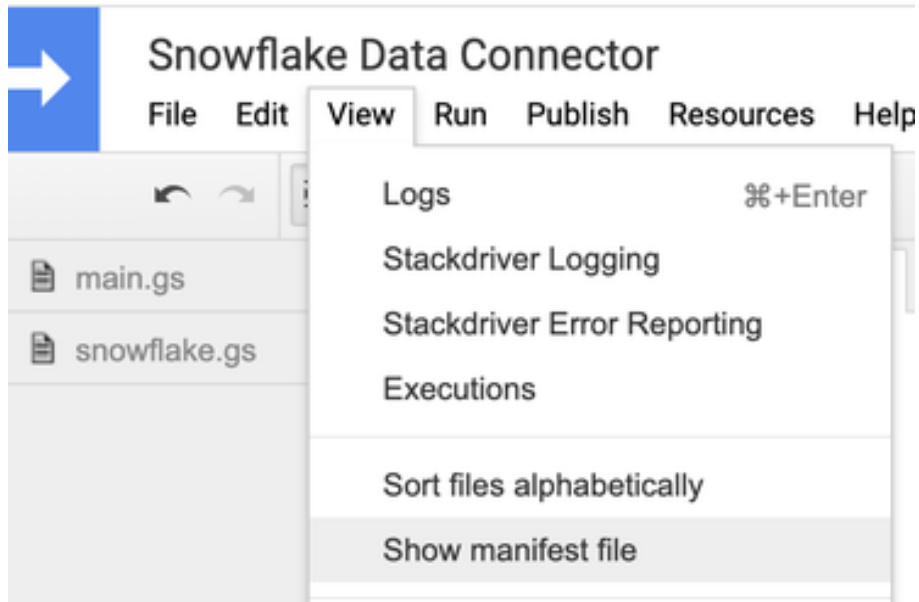
7. Create a new script file called “**snowflake.gs**”



8. Copy & paste the contents of **snowflake.gs** file that you downloaded into this new file.

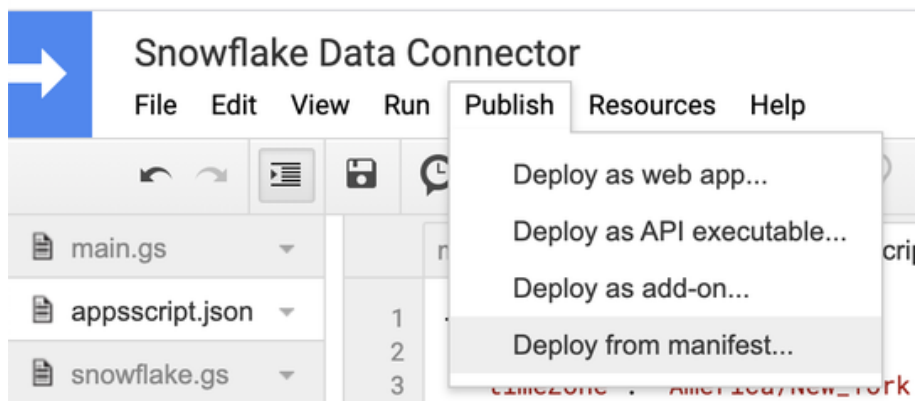


9. Click **VIEW** → **SHOW MANIFEST FILE**

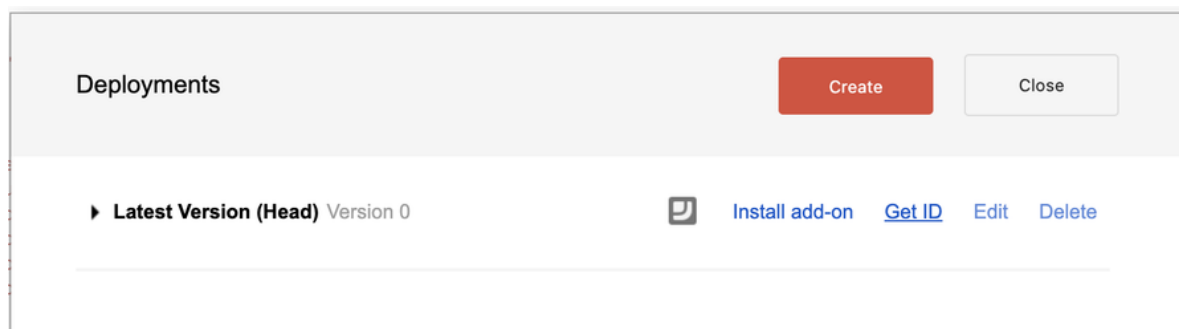


10. Open the **appscript.json** file you downloaded with a TextEditor and Copy & Paste the contents into **appscript.json** manifest file that showed up.

11. Click on **PUBLISH → DEPLOY FROM MANIFEST**



12. Click on **GET\_ID**

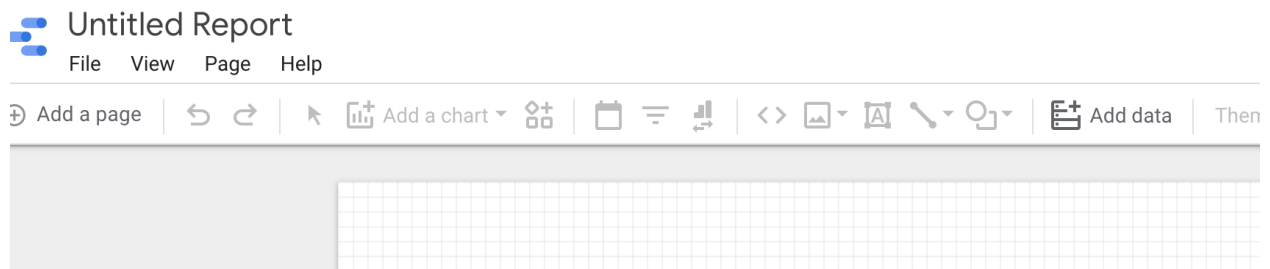


13. Copy the **DEPLOYMENT ID** value from the pop-up window & close

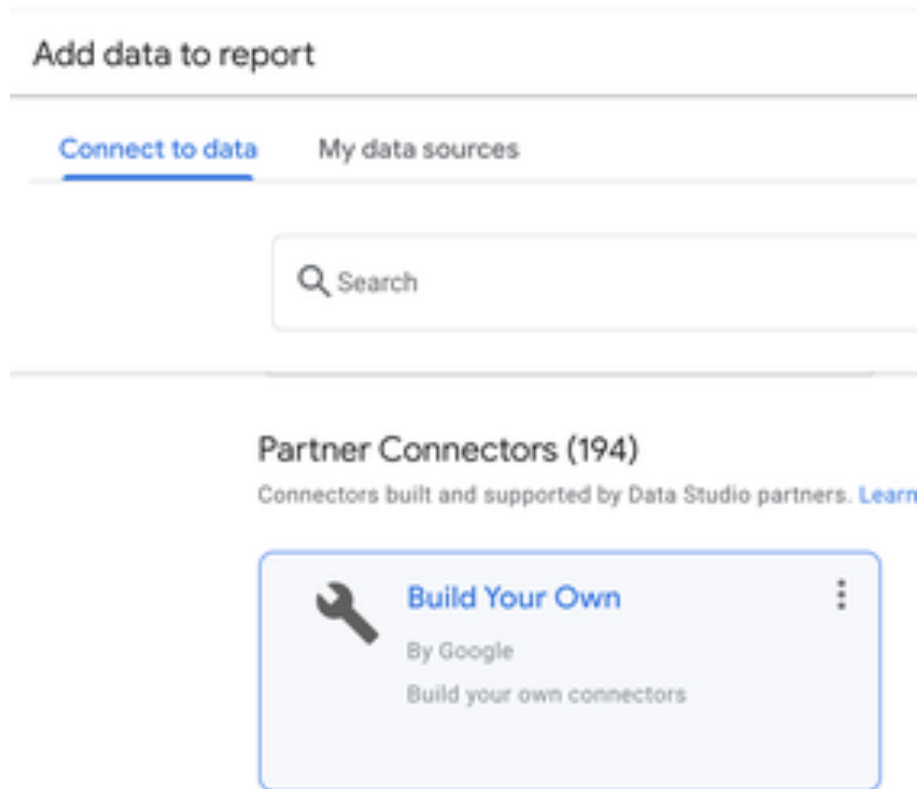
14. Installation & Deployment is finished!

## USAGE

1. Browse to <https://datastudio.google.com/> and login with your personal account(*corp account may work but could have restrictions*).
2. Create a new Google Data Studio
3. Click on ADD DATA



4. Scroll down & choose to **BUILD YOUR OWN** under **PARTNER CONNECTORS** section




5. Paster the **DEPLOYMENT ID** value from the install step then **CLICK VALIDATE**

← Add data to report

---


### Developers

Build your own community connector.

 Learn how to build a connector

Visit [Data Studio for Developers](#) to learn how to build, deploy and publish a community conn

---

 Test and add your community connector

Enter a Deployment ID below and click validate to check if the connector manifest is valid.


Deployment ID

adfdvysfcd34343sdfscdfgsqd [VALIDATE](#)

6. Click on the connector with **Snowflake Data Connector Logo** that appears after clicking **VALIDATE**

← Add data to report

---



 Test and add your community connector

Enter a Deployment ID below and click validate to check if the connector manifest is valid.

Deployment ID

AKfycbzQU6VMn4lxQiQ0dfsdldf0St9HkmbxZYeRrdeZsdffxkuAse [VALIDATE](#)

The connector manifest is valid; click to use the connector.

 **Snowflake Data Connector** 

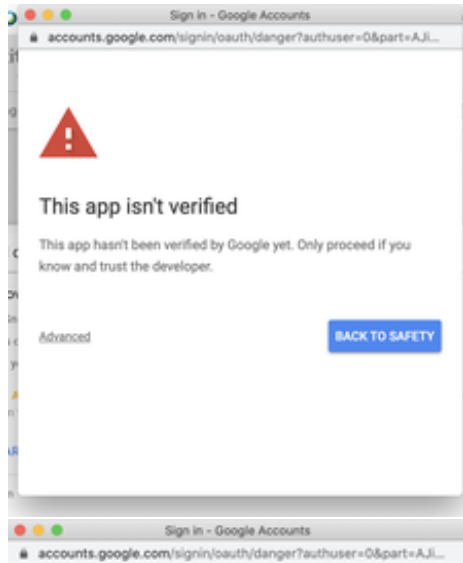
By Snowflake Open Source

This connector allows retrieving data from Snowflake data platform

7. **AUTHORIZE** & use personal **GMAIL** account (corp one may have restrictions)

8. If you see a **WARNING**.

- Click **ADVANCED** at the bottom.
- Click **Go to Snowflake Connector UnSafe**
- Click **ALLOW**



### This app isn't verified

This app hasn't been verified by Google yet. Only proceed if you know and trust the developer.

Hide Advanced

BACK TO SAFETY

Google hasn't reviewed this app yet and can't confirm it's authentic. Unverified apps may pose a threat to your personal data. [Learn more](#)

[Go to Snowflake Data Connector \(unsafe\)](#)

←

Add data to report

DB\_WH

Database name (optional) ?

snowflake\_sample\_data

Schema name (optional) ?

tpch\_sf100

Enter your SQL query (use dbname.schema.table if they database & schema is not filled in) ?

SELECT L\_ORDERKEY, L\_PARTKEY, L\_SUPPKEY, L\_LINE

## 11. DONE. Ready to Design.

**My Sales Report**

File Edit View Insert Page Arrange Resource Help

Total Sales: **3,303,235.75**

AIR		REIL AIR		TRUCK	
DATE	SALES	DATE	SALES	DATE	SALES
2017-01-01	100	2017-01-01	100	2017-01-01	100
2017-01-02	100	2017-01-02	100	2017-01-02	100
2017-01-03	100	2017-01-03	100	2017-01-03	100
2017-01-04	100	2017-01-04	100	2017-01-04	100
2017-01-05	100	2017-01-05	100	2017-01-05	100
2017-01-06	100	2017-01-06	100	2017-01-06	100
2017-01-07	100	2017-01-07	100	2017-01-07	100
2017-01-08	100	2017-01-08	100	2017-01-08	100
2017-01-09	100	2017-01-09	100	2017-01-09	100
2017-01-10	100	2017-01-10	100	2017-01-10	100
2017-01-11	100	2017-01-11	100	2017-01-11	100
2017-01-12	100	2017-01-12	100	2017-01-12	100
2017-01-13	100	2017-01-13	100	2017-01-13	100
2017-01-14	100	2017-01-14	100	2017-01-14	100
2017-01-15	100	2017-01-15	100	2017-01-15	100
2017-01-16	100	2017-01-16	100	2017-01-16	100
2017-01-17	100	2017-01-17	100	2017-01-17	100
2017-01-18	100	2017-01-18	100	2017-01-18	100
2017-01-19	100	2017-01-19	100	2017-01-19	100
2017-01-20	100	2017-01-20	100	2017-01-20	100
2017-01-21	100	2017-01-21	100	2017-01-21	100
2017-01-22	100	2017-01-22	100	2017-01-22	100
2017-01-23	100	2017-01-23	100	2017-01-23	100
2017-01-24	100	2017-01-24	100	2017-01-24	100
2017-01-25	100	2017-01-25	100	2017-01-25	100
2017-01-26	100	2017-01-26	100	2017-01-26	100
2017-01-27	100	2017-01-27	100	2017-01-27	100
2017-01-28	100	2017-01-28	100	2017-01-28	100
2017-01-29	100	2017-01-29	100	2017-01-29	100
2017-01-30	100	2017-01-30	100	2017-01-30	100
2017-01-31	100	2017-01-31	100	2017-01-31	100
2017-02-01	100	2017-02-01	100	2017-02-01	100
2017-02-02	100	2017-02-02	100	2017-02-02	100
2017-02-03	100	2017-02-03	100	2017-02-03	100
2017-02-04	100	2017-02-04	100	2017-02-04	100
2017-02-05	100	2017-02-05	100	2017-02-05	100
2017-02-06	100	2017-02-06	100	2017-02-06	100
2017-02-07	100	2017-02-07	100	2017-02-07	100
2017-02-08	100	2017-02-08	100	2017-02-08	100
2017-02-09	100	2017-02-09	100	2017-02-09	100
2017-02-10	100	2017-02-10	100	2017-02-10	100
2017-02-11	100	2017-02-11	100	2017-02-11	100
2017-02-12	100	2017-02-12	100	2017-02-12	100
2017-02-13	100	2017-02-13	100	2017-02-13	100
2017-02-14	100	2017-02-14	100	2017-02-14	100
2017-02-15	100	2017-02-15	100	2017-02-15	100
2017-02-16	100	2017-02-16	100	2017-02-16	100



## IMPORTANT NOTE:

Dates may cause issues where they are not recognized or recognized properly. You have to re-format dates into a format that GDS can understand and pick the matching format in the field data manager field properties.

### 1. User SQL to format to YYYYMMDD

```
TO_VARCHAR(L_COMMITDATE, 'YYYYMMDD') as L_COMMITDATE
```

### 2. Then match the same format in GDS

Index	Field ↓	Type ↓	Default Aggregation ↓	Description ↓
1	L_COMMENT	ABC Text	None	
2	L_COMMITDATE	📅 Date (YYYYMMDD)	None	
3	L_DISCOUNT	123 Numeric	None	
4	L_EXTENDEDPRICE	ABC Text	None	
5	L_LINENUMBER	📅 Date & Time	Year (YYYY)	
6	L_LINESTATUS	× ✓ Boolean	Year Quarter (YYYYQ)	
7	L_ORDERKEY	🌐 Geo	Year Month (YYYYMM)	
8	L_PARTKEY	123 Currency	ISO Year Week (YYYYww)	
9	L_QUANTITY	🔗 URL	Date (YYYYMMDD)	
10	L_RECEIPTDATE			