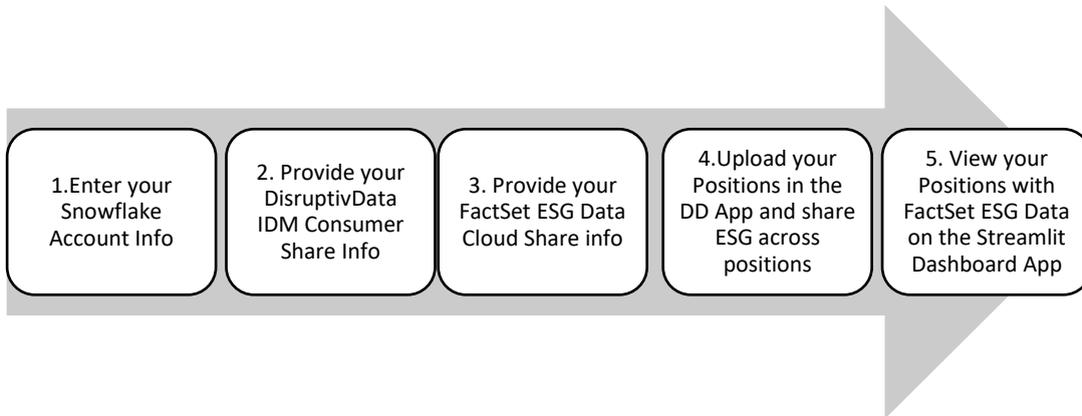
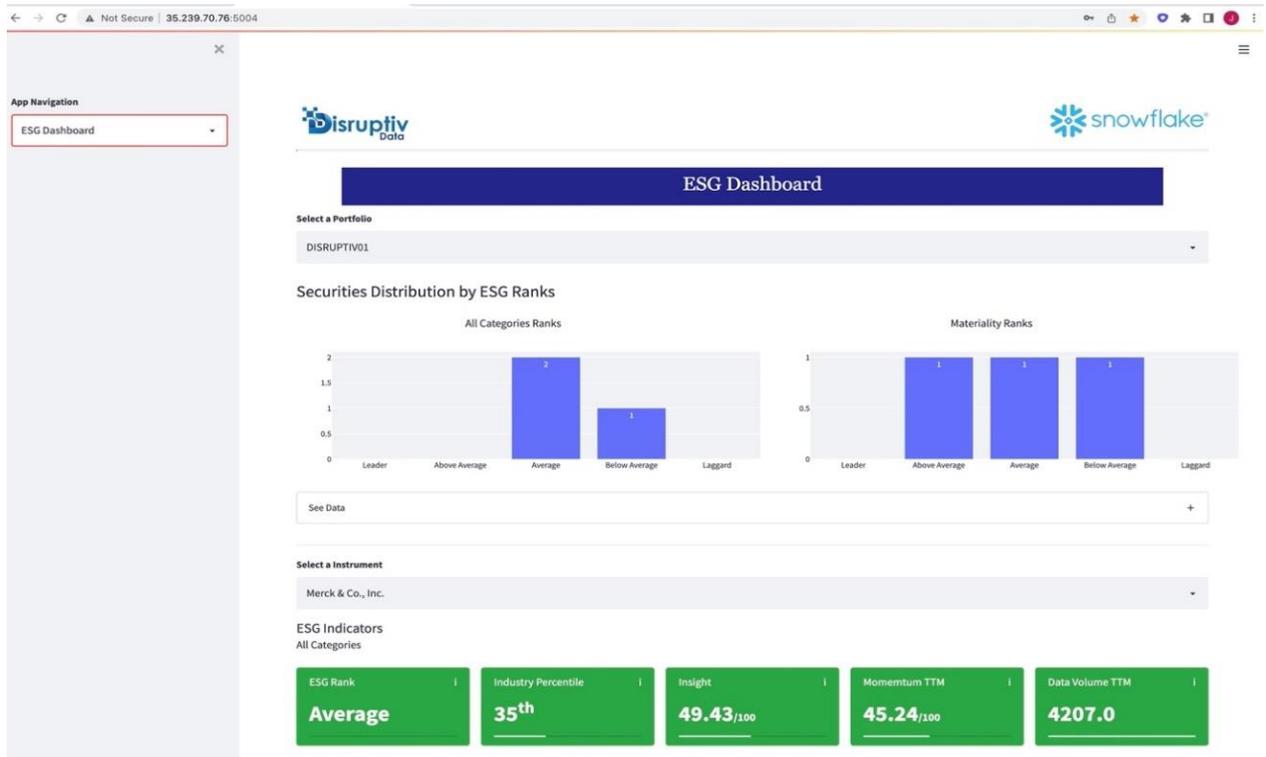


Congratulations! You are just minutes away from using the new Snowflake Investment Data Model from Disruptiv Data with out of the box ESG support that leverages the power of the Snowflake Data Cloud and the new Native App Marketplace.

With the included Streamlit App you can upload your positions and see FactSet ESG Scores and Measures¹. There is also an option to provide a list of securities from ETF Global, another Snowflake Data Cloud provider, to seed the FactSet ESG Data Cloud share.



When completed you will be able to see your positions joined with the FactSet ESG scores as shown below:



Move your organization to the Snowflake Data Cloud with DisruptivData’s Investment Data Model and Data Migration Accelerators faster with less cost and risk! Contact us learn more and see how we can help speed your transformation. Email or call us. info@disruptivdata.com +1(203)-395-5049.

¹ The IDM is ready to use with multiple ESG Data Sources available on the Snowflake Data Cloud or directly from your own and nonparticipating ESG data suppliers. Contact DisruptivData for more details.

Prerequisites:

- Know Your Snowflake Account information
- Know your FDS (ESG Data) share from Factset
- DisruptivData's Investment Data share from DisruptivData is available via a free Trial version with only the core anchor tables required to run the demo

STEP 1 Log in to your organization's Snowflake account



Instantiate the Shares

Step 2 Provide your DisruptivData Investment Data Model consumer share information

DisruptivData Investment Data Model Share Setup

Request and access the DisruptivData's share from Snowflake's Public or Private Share²

(Private) Snowflake Enterprise ESG Ready Investment Data Model

Robust Investment Data Model (IDM) ready-to-go link your Positions, Instruments, and Accounts with ESG data from multiple sources. Out of the box, Factset ESG data share is enabled and a sample Streamlit application is provided to see your holdings and securities of interest data extended with Factset's scores in minutes.

The disruptivData Investment Model is proven, built for BI data consumption, and logically organized by domain:

- Instruments
- Parties
- Portfolios
- Transactions
- Positions and Position Split (tax lots, strategy)
- Derivatives
- Performance

Show More

Business Needs

ESG Investment Analysis

Many Asset Managers and Asset Owners cannot easily leverage the Snowflake Data Cloud to quickly assimilate and deploy new data sources necessary to support ESG investment mandates to meet their business requirements. The move from expensive legacy data stores to Snowflake needed a quick, low risk a... More

Legacy Data Management Modernization

The new Snowflake Advanced Marketplace Investment Warehouse has a proven data model and is easily

Free
Privately shared with you
Get

² A Private Share with additional tables and columns for enterprise use is also offered. We are happy to provide a demo and arrange Private Share access quickly by contacting us at <https://disruptivdata.com>

DisruptivData Snowflake Native App Investment Data Model with ESG Support User Documentation

RD RAVIKIRAN DH...
ACCOUNTADMIN

- Worksheets
- Dashboards
- Data
- Databases
 - Private Sharing
- Provider Studio
- Marketplace
- Activity
- Admin
- Help & Support

Classic Console

TESTUSEAST1

< E (Private) Snowflake Enterprise ESG Ready Investment Data Model

Usage Examples

STEP 1: Instantiate the share
Once the share is available, instantiate the share by creating a database from it either using the marketplace or through SQL query

```

1 -- CREATE YOUR_DATABASE_NAME FROM MARKETPLACE AND PROVIDE FOLLOWING ROLES
2 CREATE ROLE IF NOT EXISTS app_role;
3 -- GRANT ROLE app_role TO DATABASE YOUR_DATABASE_NAME;
4 -- GRANT ROLE ACCOUNTADMIN TO DATABASE YOUR_DATABASE_NAME;
5 -- GRANT EXECUTE TASK ON ACCOUNT TO ROLE app_role;

```

Show more

STEP 2: Go to DisruptivData Application to load your data into the data model
In order to load your positions, instruments, portfolio, and other data, we have developed a simple web app that is designed to ingest your data quickly and seamlessly using simple mappings. URL: <https://snowflakeidm.disruptivdata.com>

```

1 -- URL: https://snowflakeidm.disruptivdata.com
2
3 -- Loading Instrument Identifier table with CUSIP/ISIN/SEDOL identifiers
  is necessary for automatically populating ESG data from FACTSET
4

```

Show more

STEP 3: Check loaded data from DisruptivData Application
Once you load data from the web app, check whether the tables are populated or not

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Create a Database from DisruptivData's Share with necessary roles

RD RAVIKIRAN DH...
ACCOUNTADMIN

- Worksheets
- Dashboards
- Data
- Databases
 - Private Sharing
- Provider Studio
- Marketplace
- Activity
- Admin
- Help & Support

Classic Console

TESTUSEAST1

(Private) Snowflake Enterp...

- ✓ Data updated continuously
- ✓ Data for global at county level
- ✓ Data for the last 7 days with event-based interval
- ✓ Proven Investment Data Model supports all Asset Cl...
- ✓ Multi-Sourced
- ✓ Native Snowflake Support for Data Cloud
- ✓ Built for BI

Free

- ✓ Zero maintenance
- ✓ Data ingested automatically

Create Database
Access this data application from a new database.

Add Roles
EXF_IDM_V8

Select Warehouse
COMPUTE_WH

Free

Privately shared with you

Get

OPTIONAL: Review the database for schemas and tables

The screenshot shows the Snowflake web interface. On the left, a navigation pane shows the user 'RAVIKIRAN DH...' and the database structure: BC_DM, ETFG_LISTING, and EXF_IDM_V8. Under EXF_IDM_V8, the 'IDM' schema is selected, showing a list of tables. The main pane displays the 'EXF_IDM_V8 / IDM' schema details, including a search bar, 'All Tables' button, and a table listing 41 tables. The table has columns for NAME, TYPE, OWNER, ROWS, BYTES, and CREATED. All tables are of type 'Table' and were created 'just now'.

Provide necessary permissions by using roles

The screenshot shows the Snowflake SQL Editor interface. The top bar includes 'Installer Steps', user roles 'ACCOUNTADMIN' and 'COMPUTE_WH', and a 'Share' button. The main editor area contains the following SQL script:

```

1  -- STEP 1 : Create a database from the Share
2  CREATE ROLE IF NOT EXISTS app_role;
3  GRANT ROLE app_role TO DATABASE EXF_IDM_V8;
4  GRANT ROLE ACCOUNTADMIN TO DATABASE EXF_IDM_V8;
5  GRANT EXECUTE TASK ON ACCOUNT to ROLE app_role;
6  GRANT USAGE ON WAREHOUSE COMPUTE_WH TO ROLE app_role;
7
8  -- STEP 2 : Go to DisruptivData Application to load your data into the data model
9  -- URL: snowflakeidm.disruptivdata.com
10
11 -- STEP 3 : Check loaded data from DisruptivData Application
12 SELECT * FROM EXF_IDM_V8.IDM.T_PORT_PORTFOLIO;

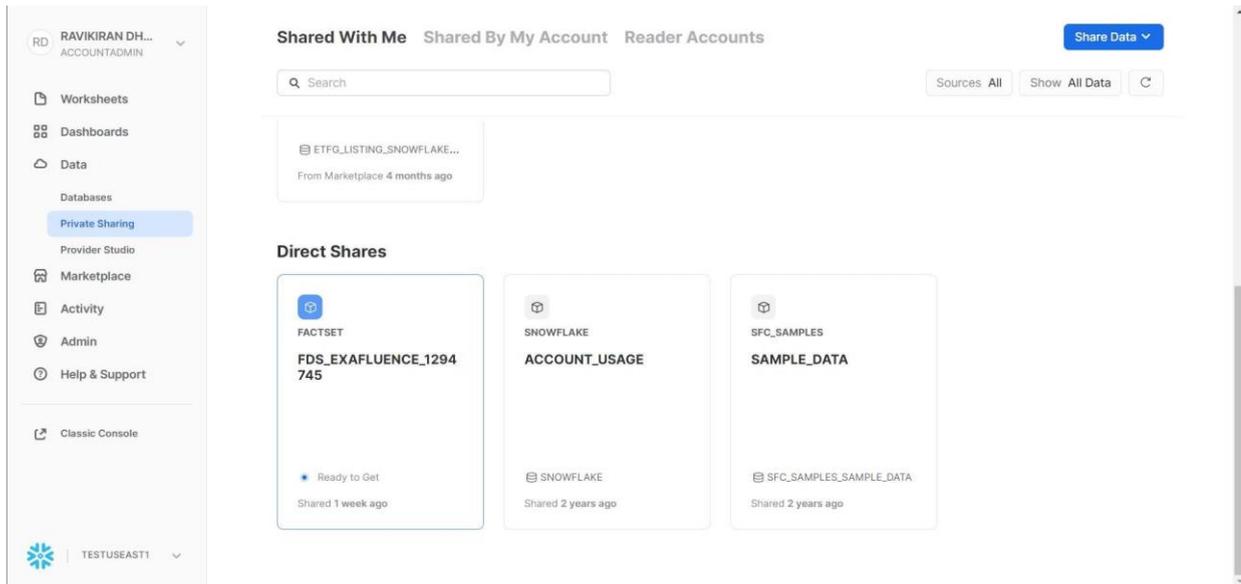
```

Below the editor, the 'Results' tab shows a single row with the status 'Statement executed successfully.'. On the right, the 'Query Details' panel shows a query duration of 90ms, 1 row, and a progress indicator for the 'status' column.

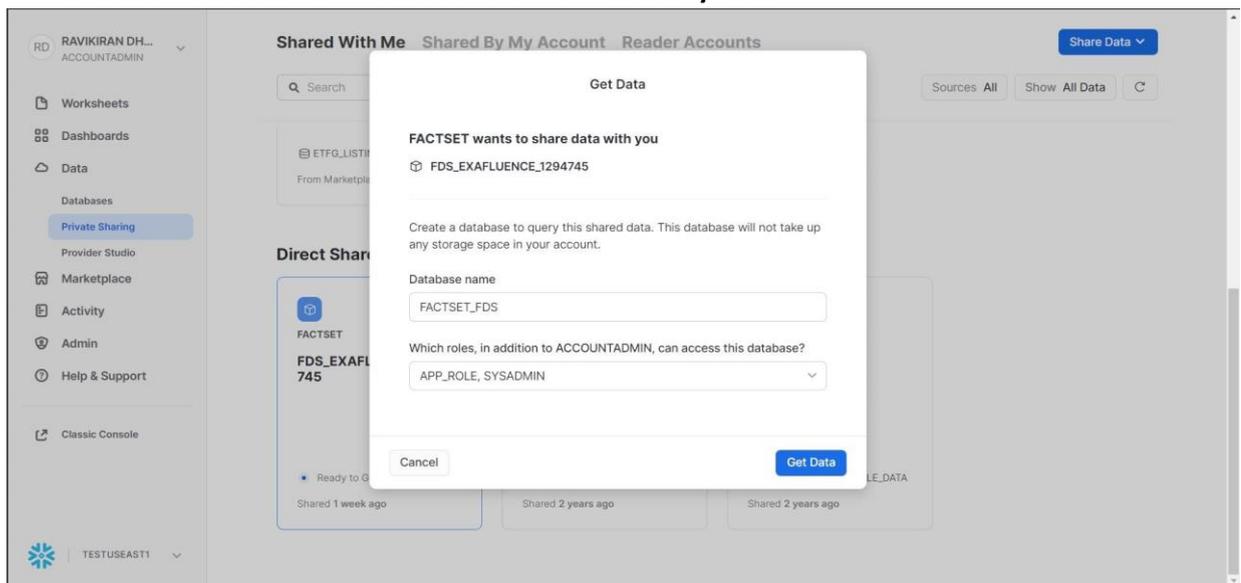
Step 3 FactSet Share Setup

Request and access the FactSet share from Snowflake's private sharing. (Note: You will need to contact FactSet for a trial if you do not have a subscription). Note: If FactSet has authorized your organization you will see the screen below.

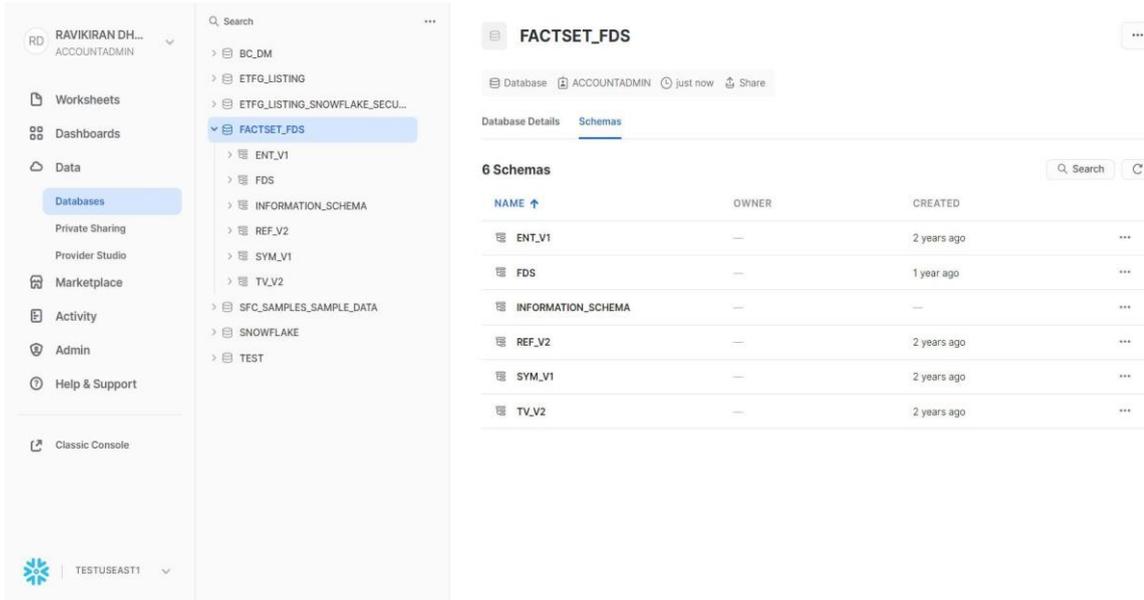
DisruptivData Snowflake Native App Investment Data Model with ESG Support User Documentation



Create a Database from Factset Share with necessary roles



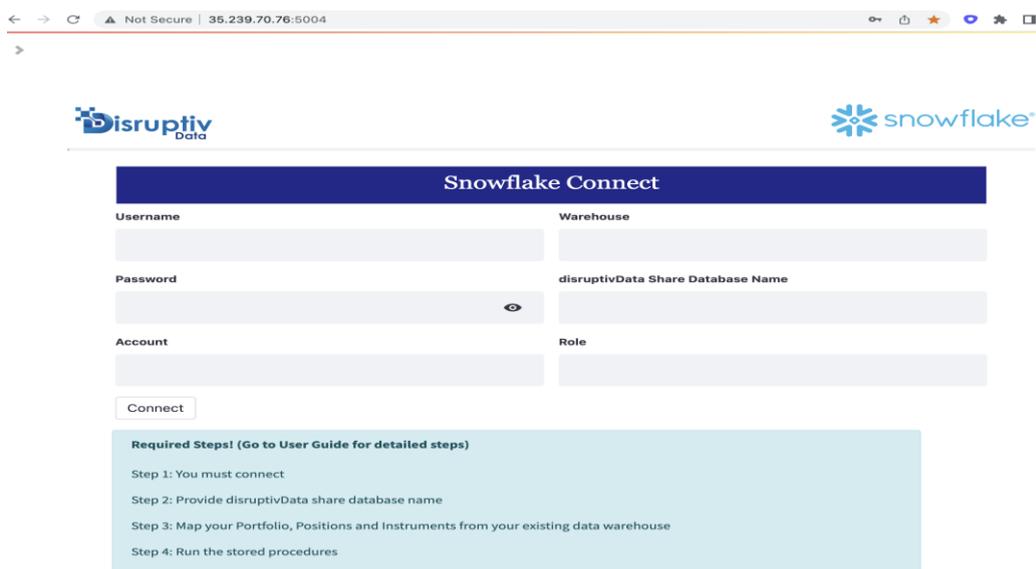
OPTIONAL: Review the database for schemas and tables. It should contain Symbology, Reference and TruValue (TV) tables with data.



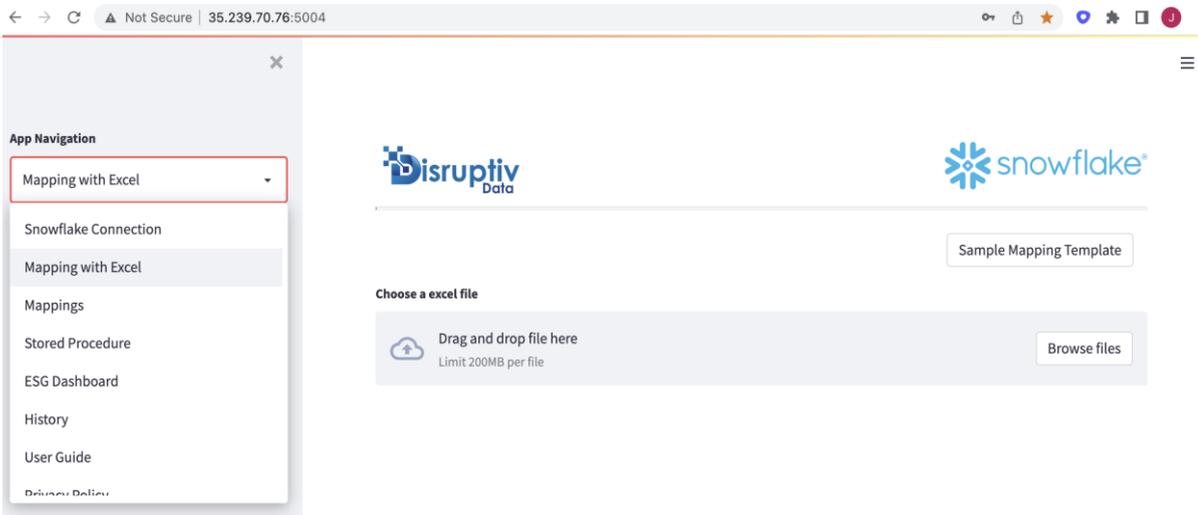
Step 4 **Go to DisruptivData Application to load your data into the data model**

Visit <https://snowflakeidm.disruptivdata.com/> This is a Streamlit application that links the DisruptivData Investment Data Model Consumer share with your FactSet ESG Data Cloud Share on your new Snowflake Warehouse.

DisruptivData will provision credentials by request. Send us a message or call and we'll be happy to provide credentials for you to connect today! (Note: Separate log in will not be necessary after Snowflake's rollout of the advanced marketplace.)



🎯 Once you are logged in and connected to the database go to the left pane navigation menu and select, **“Mapping with Excel”**. See illustration below.

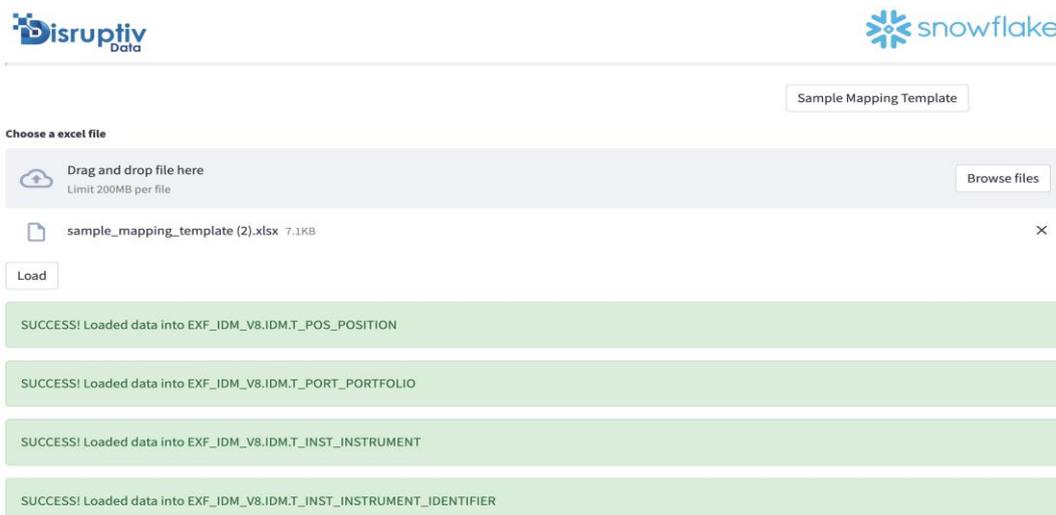


Now select **“Sample Mapping Template”** in the upper right. This will download the template for you to copy in your positions.

Open the template and copy in your positions in to the **“Data”** tab. There is also an instruction tab for your reference.

PORTFOLIO_ID	PORTFOLIO_LONG_NAME	EFFECTIVE_DATE	INSTRUMENT_ID	LONG_NAME	IDENTIFIER	IDENTIFIER_TYPE	QUANTITY	MARKET_PRICE_BASE	MARKET_PRICE_LOCAL	MARKET_VALUE_BASE	MARKET_VALUE_LOCAL	POSITION_ID	SOURCE
46409999	DISRUPTIV01	31-03-2022	123579	Pinnacle West	723484101	CUSIP	200	73.73	73.73	14746	14746	1	EXF
46409999	DISRUPTIV01	31-03-2022	100002	Microsoft Inc.	594918104	CUSIP	300	308.31	308.31	92493	92493	3	EXF
46409999	DISRUPTIV01	31-03-2022	100003	Merck & Co., Inc.	58933Y105	CUSIP	400	82.05	82.05	32820	32820	4	EXF
85510130	DISRUPTIV02	31-03-2022	100004	Snowflake Inc.	833445109	CUSIP	300	229.13	229.13	68739	68739	5	EXF
85510130	DISRUPTIV02	31-03-2022	100005	Pfizer Inc.	717081103	CUSIP	600	51.77	51.77	31062	31062	6	EXF

🎯 Save and drag and drop or browse for that file, then select, **LOAD**. Once loaded you should see the following messages on your screen...



OPTIONAL: Verify whether your data is populated in the data model

	INSTRUMENT_ID	SOURCE	IDENTIFIER_TYPE	IDENTIFIER	SYSTEM_INSERTED	SY
1	100,004	EXF	CUSIP	833445109	null	2022-
2	123,579	EXF	CUSIP	723484101	null	2022-
3	100,002	EXF	CUSIP	594918104	null	2022-
4	100,005	EXF	CUSIP	717081103	null	2022-
5	100,003	EXF	CUSIP	58933Y105	null	2022-

Run ESG Stored Procedure from DisruptivData Application. Go to 'Stored Procedure' in the app menu and select 'FactSet Database' and click on 'Load' button to ingest ESG data from FACTSET share into our data model automatically.

View Mapping Data

Select Mapping Name

INST_MAP

Mapping Json View

Move your data into Data Model

DESCRIPTION: Move your data into disruptivData table using mappings.

Select Mapping Name

INST_MAP

Run

Load ESG data from Factset

DESCRIPTION: Based on CUSIP and ISIN identifiers load ESG data from Factset disruptivData Data share.

Select Factset Database

FACTSET_FDS|

Load

Run workflow to move your data into data model and load ESG data from factset at a time.

Run Workflow

OPTIONAL: Verify the ESG data is populated in T_TV_FACTSET table in the DisruptivData model

The screenshot shows the Snowflake web interface. On the left is a navigation sidebar with options like Worksheets, Dashboards, Data, Databases, Private Sharing, Provider Studio, Marketplace, Activity, Admin, Help & Support, and Classic Console. The main area displays the table 'EXF_IDM_V8 / IDM / T_TV_FACTSET'. Below the table name, it indicates 'Table', '16 minutes ago', '115.6K', and '12.6MB'. There are tabs for 'Table Details', 'Columns', 'Data Preview', and 'Copy History'. The 'Data Preview' tab is active, showing a table with 100 rows and 5 columns: TV_DATE, SCORE_TYPE, ALL_CATEGORIES, MATERIALITY, and ALL_CATEGORIES_ARTICLEVOL. The first few rows of data are as follows:

	TV_DATE	SCORE_TYPE	ALL_CATEGORIES	MATERIALITY	ALL_CATEGORIES_ARTICLEVOL
1	2021-06-27	PULSE	44.554492824	42.186593279	nu
2	2022-04-06	PULSE	45.170109226	43.081190279	nu
3	2021-10-17	PULSE	44.754079446	41.901202102	nu
4	2021-06-18	PULSE	45.575382869	43.003136679	nu
5	2022-02-12	PULSE	45.913173959	44.781336578	nu
6	2021-06-17	PULSE	45.815889687	43.162674559	nu
7	2021-08-07	PULSE	46.321183741	44.566118118	nu
8	2020-11-03	PULSE	46.330466034	47.918586074	nu
9	2020-09-19	PULSE	49.000028319	48.477886815	nu
10	2020-05-24	PULSE	46.385140269	44.975834775	nu
11	2020-07-21	PULSE	51.257028951	50.701172643	nu
12	2020-06-23	PULSE	47.005455481	49.191655603	nu
13	2020-06-30	PULSE	50.260682541	50.475896236	nu
14	2020-07-02	PULSE	50.143253837	50.787475411	nu

STEP 5 Open ESG Dashboard on DisruptivData Application

Once the ESG data is loaded, go to the 'ESG Dashboard' in the app menu to see the ESG analysis by Portfolio and position

The screenshot shows the ESG Dashboard interface. At the top, there's a navigation menu with 'ESG Dashboard' selected. The dashboard title is 'ESG Dashboard'. Below the title, there's a 'Select a Portfolio' dropdown set to 'DISRUPTIV01'. The main section is 'Securities Distribution by ESG Ranks', which contains two bar charts: 'All Categories Ranks' and 'Materiality Ranks'. The 'All Categories Ranks' chart shows a distribution across five categories: Leader (0), Above Average (0), Average (2), Below Average (1), and Laggard (0). The 'Materiality Ranks' chart shows a distribution across five categories: Leader (0), Above Average (1), Average (1), Below Average (1), and Laggard (0). Below the charts, there's a 'See Data' button. Further down, there's a 'Select an Instrument' dropdown set to 'Merck & Co., Inc.'. The bottom section is 'ESG Indicators' for 'All Categories', featuring five green cards with the following values: ESG Rank (Average), Industry Percentile (35th), Insight (49.43/100), Momentum TTM (45.24/100), and Data Volume TTM (4207.0).

UNINSTALL: Drop the Database to uninstall the shared application

To uninstall the data application, simply drop the database. This step is optional.

The screenshot shows a Snowflake SQL editor interface. The top bar includes 'Installer Steps', user 'ACCOUNTADMIN', role 'COMPUTE_WH', and a 'Share' button. The main editor area contains a SQL script with the following steps:

```
8 -- STEP 2 : Go to DisruptivData Application to load your data into the data model
9 -- URL: snowflakeidm.disruptivdata.com
10
11 -- STEP 3 : Check loaded data from DisruptivData Application
12 SELECT * FROM EXF_IDM_V8.IDM_T_PORT_PORTFOLIO;
13
14 -- STEP 4 : Run ESG Stored Procedure from DisruptivData Application
15
16 -- STEP 5 : Open ESG Dashboard on DisruptivData Application
17
18 -- STEP 6 : Drop the Database to uninstall the shared application
19 DROP DATABASE EXF_IDM_V8;
```

The 'Results' tab is active, showing a single row with the status 'EXF_IDM_V8 successfully dropped.' The 'Query Details' panel on the right shows a query duration of 617ms and 1 row returned.

status
EXF_IDM_V8 successfully dropped.

Query Details:

- Query duration: 617ms
- Rows: 1
- status: 100% filled