

Step 4: Implementing in Snowflake

1. SQL Scripts for Schema Creation

Create Tables

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.CUSTOMER (  
2     CUSTOMERID VARCHAR(16777216) NOT NULL,  
3     CUSTOMERNAME VARCHAR(16777216),  
4     SEGMENT VARCHAR(16777216),  
5     primary key (CUSTOMERID)  
6 );
```

Show less ^

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.LOCATION (  
2     STATEID VARCHAR(16777216) NOT NULL,  
3     STATE VARCHAR(16777216),  
4     CITY VARCHAR(16777216),  
5     COUNTRY VARCHAR(16777216),  
6     POSTALCODE NUMBER(38,0),  
7     REGION VARCHAR(16777216),  
8     LATITUDE FLOAT,  
9     LONGITUDE FLOAT,  
10    primary key (STATEID)  
11 );
```

Show less ^

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.ORDERS (  
2     ORDERDATE DATE,  
3     SHIPDATE DATE,  
4     CUSTOMERID VARCHAR(16777216),  
5     PRODUCTID VARCHAR(16777216),  
6     STATEID VARCHAR(16777216),  
7     SALES FLOAT,  
8     PROFIT FLOAT,  
9     QUANTITY NUMBER(38,0),  
10    DISCOUNT FLOAT,  
11    ORDERID VARCHAR(16777216) NOT NULL,  
12    SHIPMODE VARCHAR(16777216),  
13    SHIPSTATUS VARCHAR(16777216),  
14    DAYSTOSHIPACTUAL NUMBER(38,0),  
15    DAYSTOSHIPSCHEDULED NUMBER(38,0),  
16    SHIPPINGDELAY NUMBER(38,0),  
17    SALESFORECAST FLOAT,  
18    ORDERPROFITABLE FLOAT,  
19    SALESPERCUSTOMER FLOAT,  
20    PROFITRATIO FLOAT,  
21    SALESABOVETARGET FLOAT,  
22    ORDERMONTH NUMBER(38,0),  
23    ORDERYEAR NUMBER(38,0),  
24    primary key (ORDERID),  
25    foreign key (CUSTOMERID) references SALES_DB.SALES_SCHEMA.CUSTOMER(CUSTOMERID),  
26    foreign key (PRODUCTID) references SALES_DB.SALES_SCHEMA.PRODUCT(PRODUCTID),  
27    foreign key (STATEID) references SALES_DB.SALES_SCHEMA.LOCATION(STATEID)  
28 );
```

Show less ^

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.PRODUCT (  
2     PRODUCTID VARCHAR(16777216) NOT NULL,  
3     PRODUCTNAME VARCHAR(16777216),  
4     CATEGORY VARCHAR(16777216),  
5     SUB_CATEGORY VARCHAR(16777216),  
6     primary key (PRODUCTID)  
7 );
```

Show less ^

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.TIME (  
2     DATE DATE NOT NULL,  
3     DAY NUMBER(38,0),  
4     MONTH NUMBER(38,0),  
5     YEAR NUMBER(38,0),  
6     QUARTER NUMBER(38,0),  
7     primary key (DATE)  
8 );
```

Show less ^

Create Stage

Q Search

SALES_DB

INFORMATION_SCHEMA

PUBLIC

SALES_SCHEMA

Tables

CUSTOMER

LOCATION

ORDERS

PRODUCT

SHIPMENT_STATUS_TRAINING

TIME

Stages

MY_CSV_STAGE

SNOWFLAKE

SNOWFLAKE_LEARNING_DB

SNOWFLAKE_SAMPLE_DATA

SALES_DB / SALES_SCHEMA / MY_CSV_STAGE

Internal Stage ACCOUNTADMIN 1 hour ago

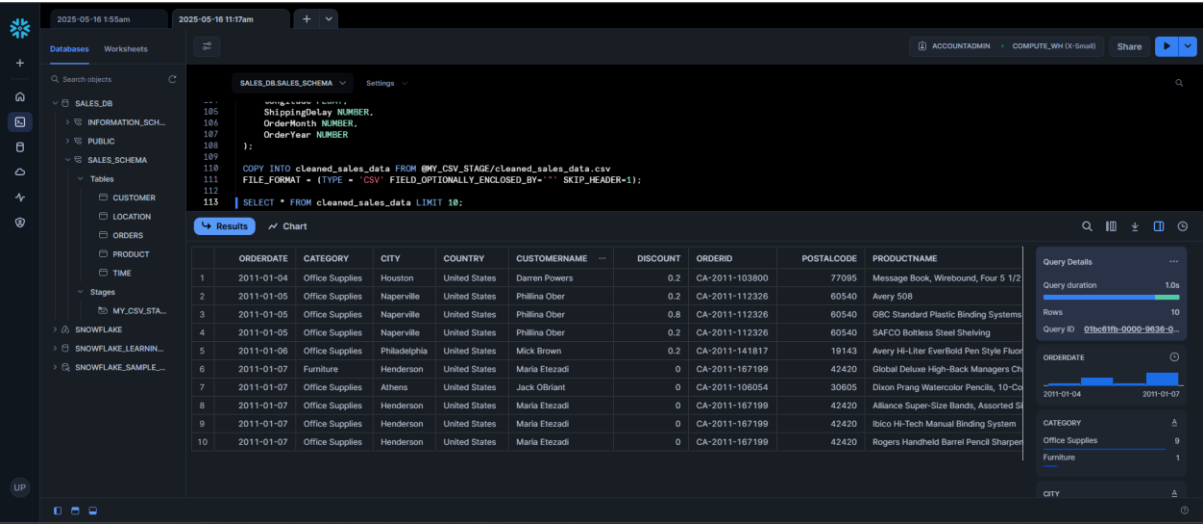
Stage FilesStage DetailsLineage

MY_CSV_STAGE (1 File)

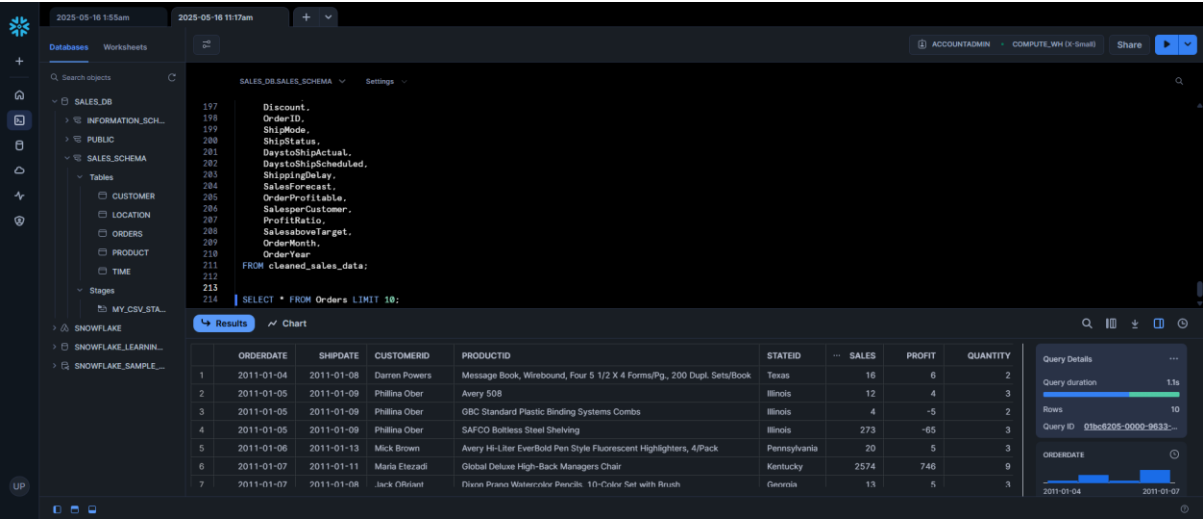
SearchCOMPUTE_WH

| NAME | SIZE | LAST MODIFIED | |
|------------------------|-------|----------------|--|
| cleaned_sales_data.csv | 2.5MB | 45 minutes ago | |

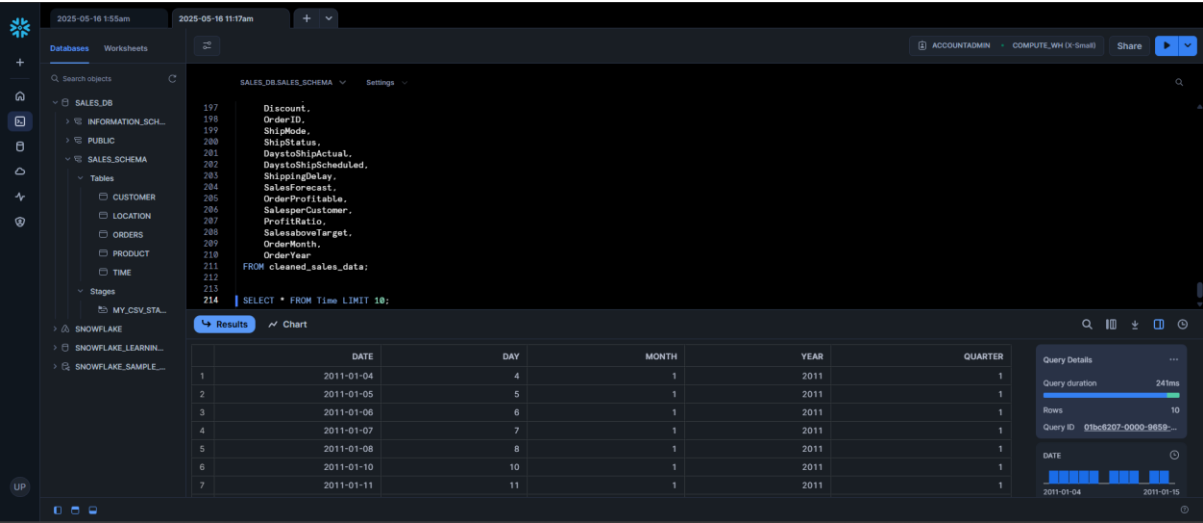
Screenshots or logs showing successful data load



Orders table



Time Table



Location Table

2025-05-16 1:55am2025-05-16 11:17am+▼

ACCOUNTADMINCOMPUTE_WH (X-Small)Share▶▼

Search objects

SALES_DB

INFORMATION_SCHEMA

PUBLIC

SALES_SCHEMA

CUSTOMER

LOCATION

ORDERS

PRODUCT

TIME

Stages

MY_CSV_STA...

SNOWFLAKE

SNOWFLAKE_LEARNI...

SNOWFLAKE_SAMPLE...

SALES_DB.SALES_SCHEMA

Settings

197Discount,

198OrderID,

199ShipMode,

200ShipStatus,

201DaystoShipActual,

202DaystoShipScheduled,

203ShippingDelay,

204SalesForecast,

205OrderProfitTable,

206SalesperCustomer,

207ProfitRatio,

208SalesaboveTarget,

209OrderMonth,

210OrderYear,

211FROM cleaned_sales_data;

212

213

214SELECT * FROM Location LIMIT 10;

ResultsChart

STATEIDSTATECITYCOUNTRYPOSTALCODEREGIONLATITUDELONGITUDE

1TexasTexasHoustonUnited States77095Central29.8941-95.6481

2IllinoisIllinoisNapervilleUnited States60540Central41.7662-88.141

3PennsylvaniaPennsylvaniaPhiladelphiaUnited States19143East39.9448-75.2288

4KentuckyKentuckyHendersonUnited States42420South37.8274-87.5632

5GeorgiaGeorgiaAthensUnited States30605South33.9321-83.3525

6CaliforniaCaliforniaLos AngelesUnited States90049West34.066-118.474

7TexasTexasHuntsvilleUnited States77340Central30.6448-95.5798

Query Details

Query duration230ms

Rows10

Query ID 01bc5207-0000-9659-...

STATEDID

100% filled

Product table

2025-05-16 1:55am2025-05-16 11:17am+▼

ACCOUNTADMINCOMPUTE_WH (X-Small)Share▶▼

Search objects

SALES_DB

INFORMATION_SCHEMA

PUBLIC

SALES_SCHEMA

CUSTOMER

LOCATION

ORDERS

PRODUCT

TIME

Stages

MY_CSV_STA...

SNOWFLAKE

SNOWFLAKE_LEARNI...

SNOWFLAKE_SAMPLE...

SALES_DB.SALES_SCHEMA

Settings

197Discount,

198OrderID,

199ShipMode,

200ShipStatus,

201DaystoShipActual,

202DaystoShipScheduled,

203ShippingDelay,

204SalesForecast,

205OrderProfitTable,

206SalesperCustomer,

207ProfitRatio,

208SalesaboveTarget,

209OrderMonth,

210OrderYear,

211FROM cleaned_sales_data;

212

213

214SELECT * FROM Product LIMIT 10;

ResultsChart

PRODUCTIDPRODUCTNAMECATEGORYSUB_CATEGORY

1Message Book, Wirebound, Four 5 1/2 X 4 Forms/Pg., 200 Dupt. Sets/BookOffice SuppliesPaper

2Avery 508Avery 508Office SuppliesLabels

3GBC Standard Plastic Binding Systems CombsGBC Standard Plastic Binding Systems CombsOffice SuppliesBinders

4SAFCO Boltless Steel ShelvingSAFCO Boltless Steel ShelvingOffice SuppliesStorage

5Avery Hi-Liter Everbold Pen Style Fluorescent Highlighters, 4/PackAvery Hi-Liter Everbold Pen Style Fluorescent Highlighters, 4/PackOffice SuppliesArt

6Global Deluxe High-Back Managers ChairGlobal Deluxe High-Back Managers ChairFurnitureChairs

7Dixon Prang Watercolor Pencils, 10-Color Set with BrushDixon Prang Watercolor Pencils, 10-Color Set with BrushOffice SuppliesArt

Query Details

Query duration229ms

Rows10

Query ID 01bc5208-0000-9662-...

PRODUCTID

100% filled

Customer Table

2025-05-16 1:55am2025-05-16 11:17am+▼

ACCOUNTADMINCOMPUTE_WH (X-Small)Share▶▼

Search objects

SALES_DB

INFORMATION_SCHEMA

PUBLIC

SALES_SCHEMA

CUSTOMER

LOCATION

ORDERS

PRODUCT

TIME

Stages

MY_CSV_STA...

SNOWFLAKE

SNOWFLAKE_LEARNI...

SNOWFLAKE_SAMPLE...

SALES_DB.SALES_SCHEMA

Settings

197Discount,

198OrderID,

199ShipMode,

200ShipStatus,

201DaystoShipActual,

202DaystoShipScheduled,

203ShippingDelay,

204SalesForecast,

205OrderProfitTable,

206SalesperCustomer,

207ProfitRatio,

208SalesaboveTarget,

209OrderMonth,

210OrderYear,

211FROM cleaned_sales_data;

212

213

214SELECT * FROM Customer LIMIT 10;

ResultsChart

CUSTOMERIDCUSTOMERNAMESEGMENT

1Darren PowersDarren PowersConsumer

2Phyllina OberPhyllina OberHome Office

3Mick BrownMick BrownConsumer

4Maria EtezadiMaria EtezadiHome Office

5Jack ObriantJack ObriantCorporate

6Lycoris SaundersLycoris SaundersConsumer

7Vivek SundaresamVivek SundaresamConsumer

Query Details

Query duration568ms

Rows10

Query ID 01bc5209-0000-9638-...

CUSTOMERID

100% filled

Create Shipment Status Training Table

Table definition

```
1 create or replace TABLE SALES_DB.SALES_SCHEMA.SHIPMENT_STATUS_TRAINING (  
2   SHIPSTATUS VARCHAR(16777216),  
3   DAYSTOSHIPACTUAL NUMBER(38,0),  
4   DAYSTOSHIPSCHEDULED NUMBER(38,0),  
5   SHIPPINGDELAY NUMBER(38,0),  
6   SHIPMODE VARCHAR(16777216),  
7   REGION VARCHAR(16777216),  
8   QUANTITY NUMBER(38,0),  
9   DISCOUNT FLOAT,  
10  STATUSCATEGORY VARCHAR(7)  
11 );
```

Show less ^

Show Shipment Status Training Table

2025-05-16 11:17am

+

Database Workbooks

ACCOUNTADMIN COMPUTE_WH (X-Small) Share

SALES_DB.SALES_SCHEMA Settings

Code Versions

SALES_DB

INFORMATION_SCHEMA

PUBLIC

SALES_SCHEMA

Tables

CLEANED_SALES

CUSTOMER

LOCATION

ORDERS

PRODUCT

TIME

Stages

MY_CSV_STATUS

SNOWFLAKE

SNOWFLAKE_LEARNING

SNOWFLAKE_SAMPLE_TABLE

220 ShipStatus.

221 DaystoShipActual.

222 DaystoShipScheduled.

223 ShippingDelay.

224 ShipMode.

225 Region.

226 Quantity.

227 Discount.

228 -- Add other relevant features

229 CASE

230 WHEN ShippingDelay > 0 THEN 'Delayed'

231 WHEN ShippingDelay <= 0 THEN 'OnTime'

232 ELSE 'Unknown'

233 END AS StatusCategory

234 FROM Orders o

235 JOIN Location L ON o.StateID = L.StateID;

236

237 SELECT * FROM shipment_status_training LIMIT 10;

Results Chart

| SHIPSTATUS | DAYSTOSHIPACTUAL | DAYSTOSHIPSCHEDULED | SHIPPINGDELAY | SHIPMODE | REGION | QUANTITY | DISCOUNT | STATUSCATEGORY |
|-----------------|------------------|---------------------|---------------|----------------|---------|----------|----------|----------------|
| 1 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 2 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 3 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 4 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 5 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 6 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |
| 7 Shipped Early | 4 | 6 | -2 | Standard Class | Central | 2 | 0.2 | OnTime |

Query Details

Query duration 1.0s

Rows 10

Query ID 01bc5216-9000-9662...

SHIPSTATUS

Shipped Early 10