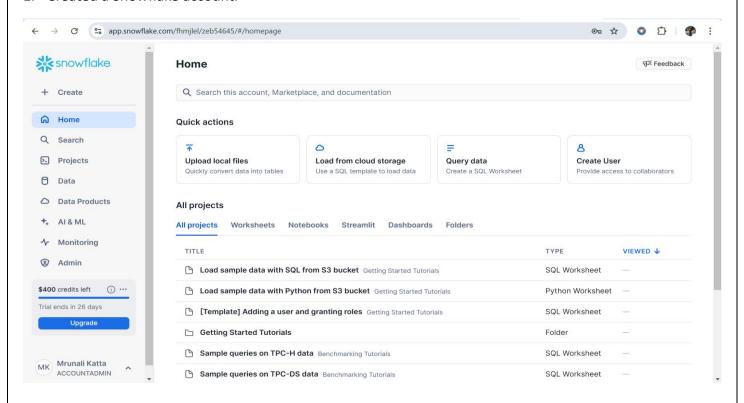
Name: Mrunali Katta

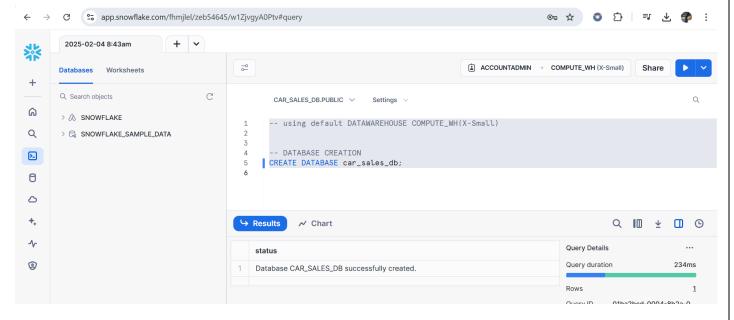
ID: 017516785

DATA 226 - HOMEWORK 1

1. Created a Snowflake account.

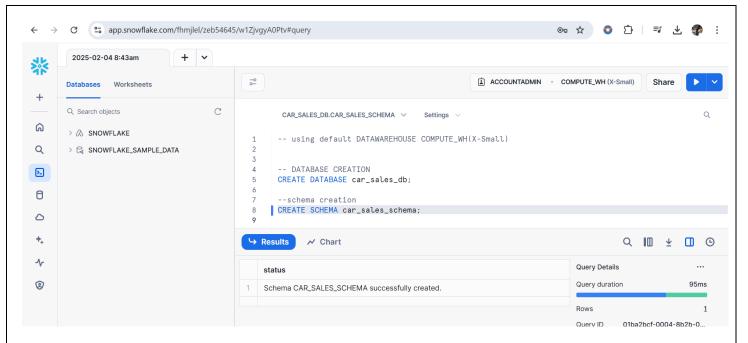


2. Created a Database 'car_sales_db', Schema 'car_sales_schema', Table 'car_sales_tbl' using the default warehouse "COMPUTE_WH" of size XSMALL.



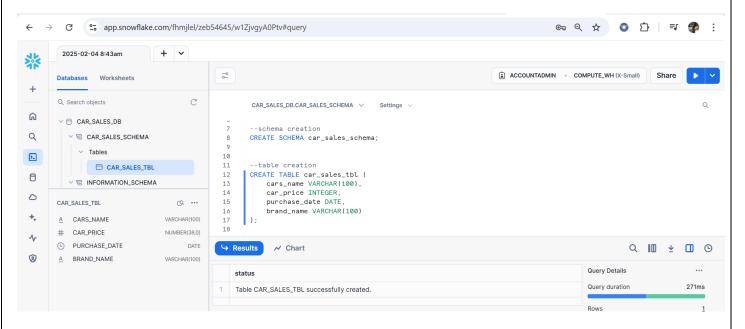
CODE:

CREATE DATABASE car_sales_db;



CODE:

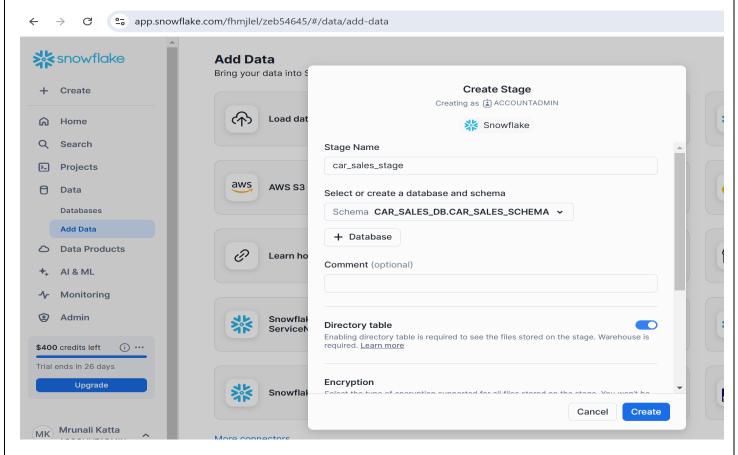
CREATE SCHEMA car_sales_schema;



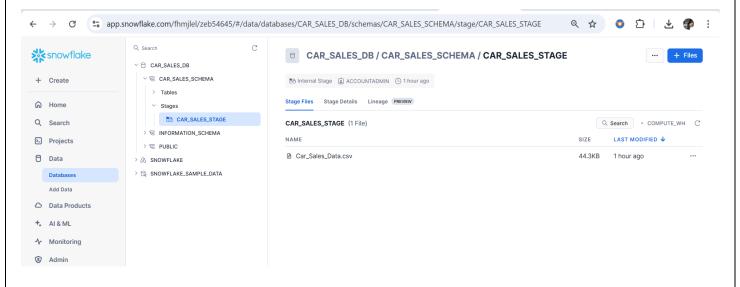
CODE:

```
CREATE TABLE car_sales_tbl (
    cars_name VARCHAR(100),
    car_price INTEGER,
    purchase_date DATE,
    brand_name VARCHAR(100)
);
```

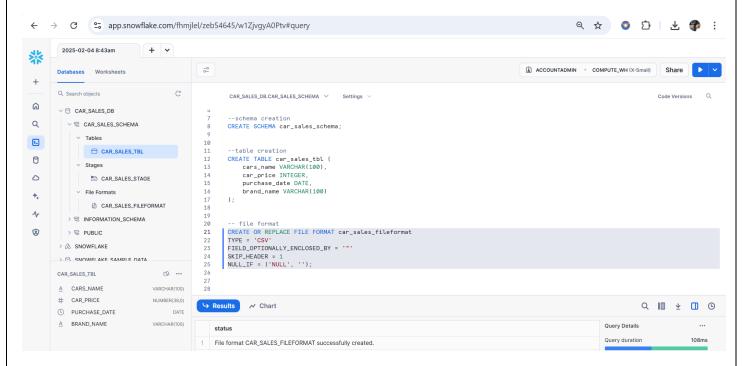
3. Stage creation Created a stage 'car_sales_stage' in Snowflake and load the csv.



Loaded the Car_Sales_Data.csv file into the earlier created stage 'car_sales_stage'



4. Created a file format called 'car_sales_format' and Loaded Data into the 'car_sales_tbl' table using COPY INTO query.



CODE:

CREATE OR REPLACE FILE FORMAT car_sales_fileformat

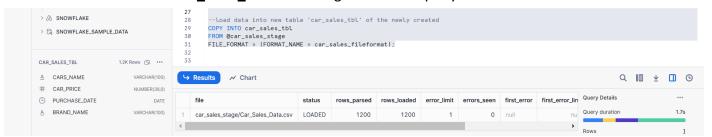
TYPE = 'CSV'

FIELD_OPTIONALLY_ENCLOSED_BY = ""

SKIP_HEADER = 1

NULL_IF = ('NULL', '');

Now loaded data into the 'car_sales_tbl' table using COPY INTO query



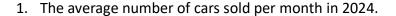
CODE:

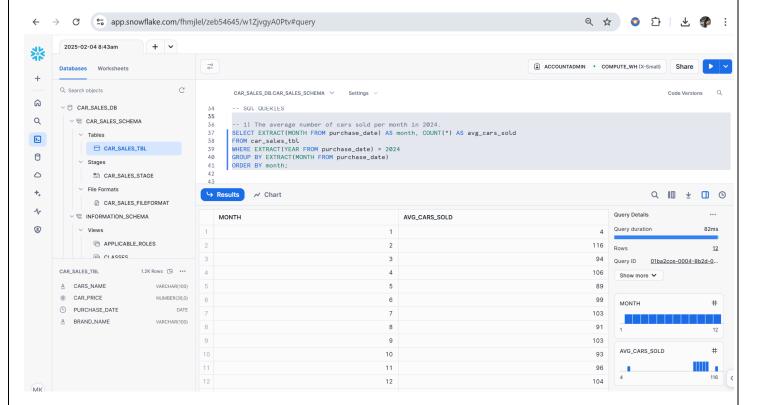
COPY INTO car sales tbl

FROM @car_sales_stage

FILE_FORMAT = (FORMAT_NAME = car_sales_fileformat);

5. Write an SQL queries for each that shows the following insights





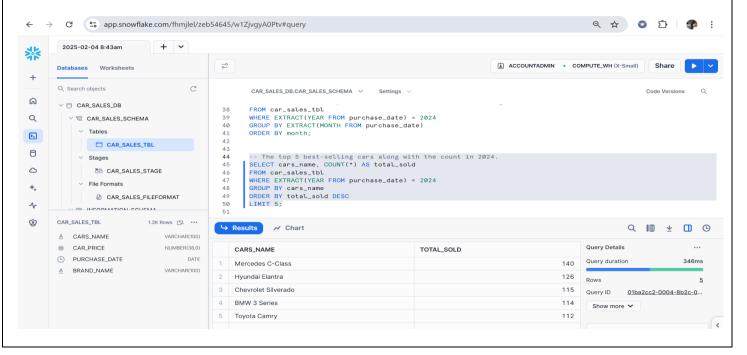
CODE:

SELECT EXTRACT(MONTH FROM purchase_date) AS month, COUNT(*) AS avg_cars_sold FROM car_sales_tbl
WHERE EXTRACT(YEAR FROM purchase_date) = 2024

GROUP BY EXTRACT(MONTH FROM purchase_date)

ORDER BY month;

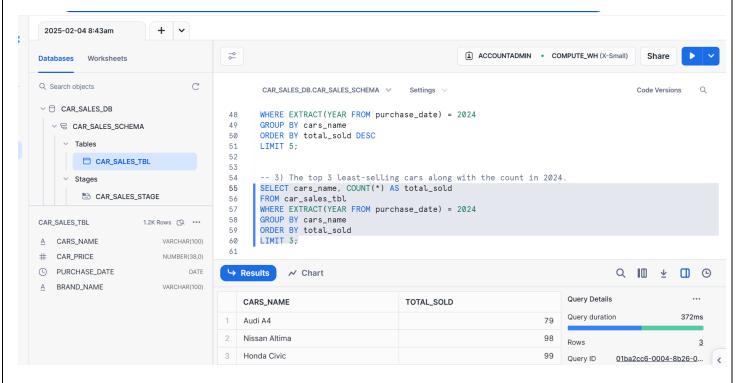
2) The top 5 best-selling cars along with the count in 2024.



CODE:

SELECT cars_name, COUNT(*) AS total_sold
FROM car_sales_tbl
WHERE EXTRACT(YEAR FROM purchase_date) = 2024
GROUP BY cars_name
ORDER BY total_sold DESC
LIMIT 5;

3) The top 3 least-selling cars along with the count in 2024.



CODE:

SELECT cars_name, COUNT(*) AS total_sold
FROM car_sales_tbl
WHERE EXTRACT(YEAR FROM purchase_date) = 2024
GROUP BY cars_name
ORDER BY total_sold
LIMIT 3;