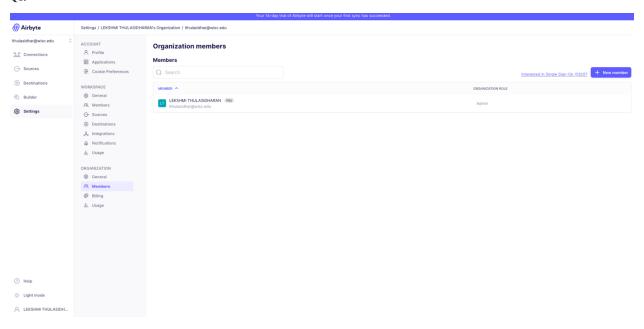
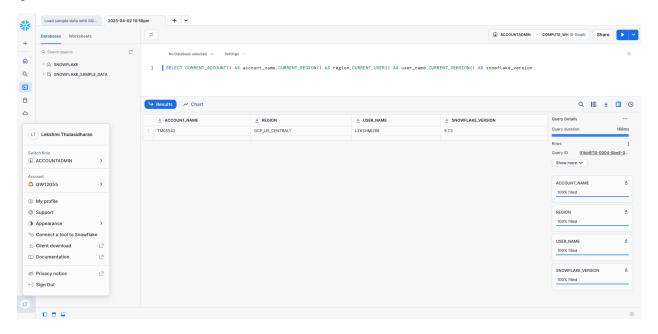
Section 1: Setup environment (15 points in total)

Q1.



Q2.



Q3. In p4.ipynb

Q4.

(1) Write a SQL query to switch to use accountadmin role.

```
use role accountadmin;
```

(2) Create a warehouse named P4_WAREHOUSE using xsmall as warehouse size.

```
begin;
create warehouse if not exists P4_WAREHOUSE
with
warehouse_size = xsmall
warehouse_type = standard
auto_suspend = 60
auto_resume = true
initially_suspended = true;
commit;
```

(3) Create two databases named SURVEY_DATABASE and STOCK_DB.

```
begin;
create database if not exists SURVEY_DATABASE;
create database if not exists STOCK_DB;
commit;
```

(4) Create a role named P4 ROLE.

```
begin;
create role if not exists P4_ROLE;
grant role P4_ROLE to role SYSADMIN;
commit:
```

(5) Grant usage on the warehouse P4_WAREHOUSE to the P4_ROLE.

```
begin;
grant USAGE
on warehouse P4_WAREHOUSE
to role P4_role;
commit;
```

 $(6) \quad \text{Grant the role P4_ROLE to your Snowflake user (username should be your Snowflake username)}.$

```
grant role P4_ROLE to user LEKSHMI288;
```

(7) Grant ownership of SURVEY_DATABASE and STOCK_DB to P4_ROLE.

```
begin;
grant OWNERSHIP
on database SURVEY_DATABASE
to role P4_ROLE;
grant OWNERSHIP
on database STOCK_DB
to role P4_ROLE;
commit;
```

(8) Switch to P4_ROLE.

commit;

```
use role P4_ROLE;
```

(9) Create a schema in SURVEY_DATABASE named SURVEY_SCHEMA.

```
begin;
use database SURVEY_DATABASE;
create schema if not exists SURVEY_SCHEMA;
commit;
```

(10) Create a schema in STOCK_DB named STOCK_SCHEMA
 begin;
 use database STOCK_DB;
 create schema if not exists STOCK_SCHEMA;

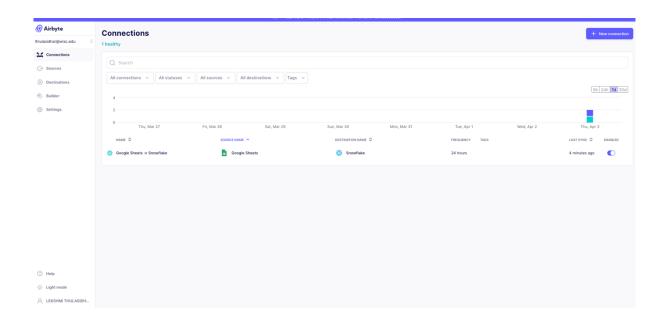
(11) Grant ownership of SURVEY_SCHEMA to P4_role

```
begin;
use database SURVEY_DATABASE;
grant ownership
on schema SURVEY_SCHEMA
to role P4_role;
commit;
```

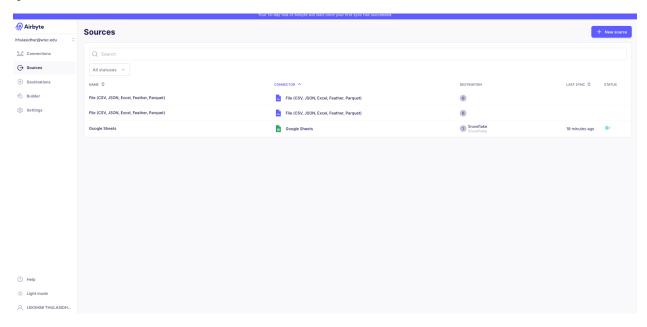
(12) Grant ownership of STOCK_SCHEMA to P4_role.

```
begin;
use database STOCK_DB;
grant ownership
on schema STOCK_SCHEMA
to role P4_role;
commit;
```

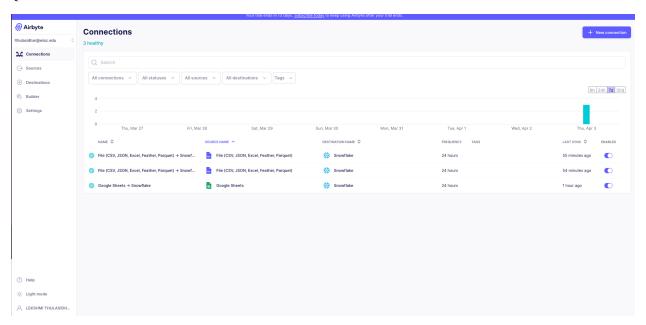
Q5.



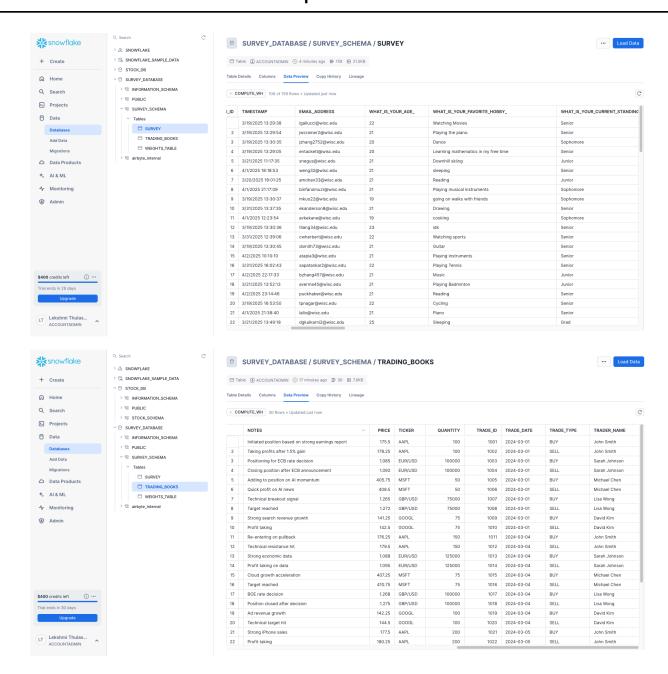
Q6.

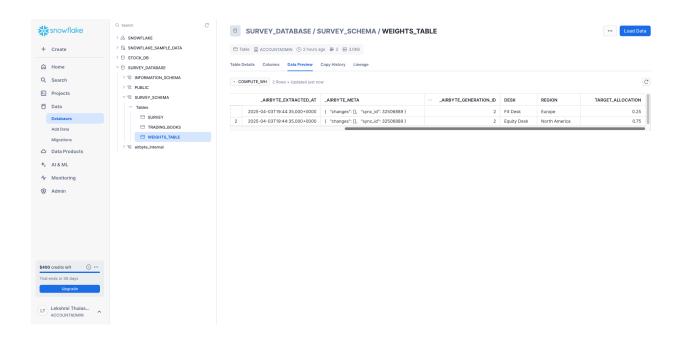


Q7.



Q8.





Q9.

