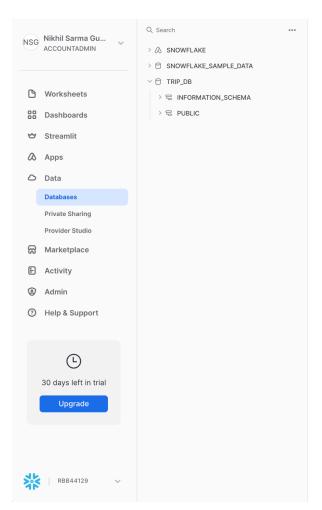
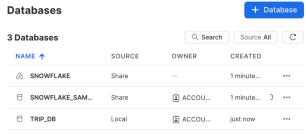
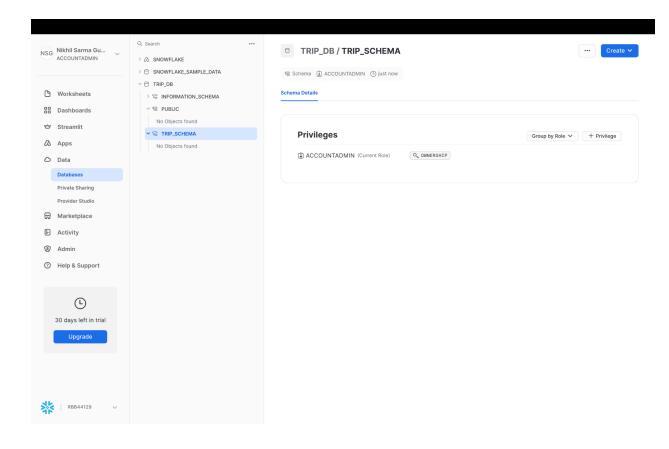
Homework 10

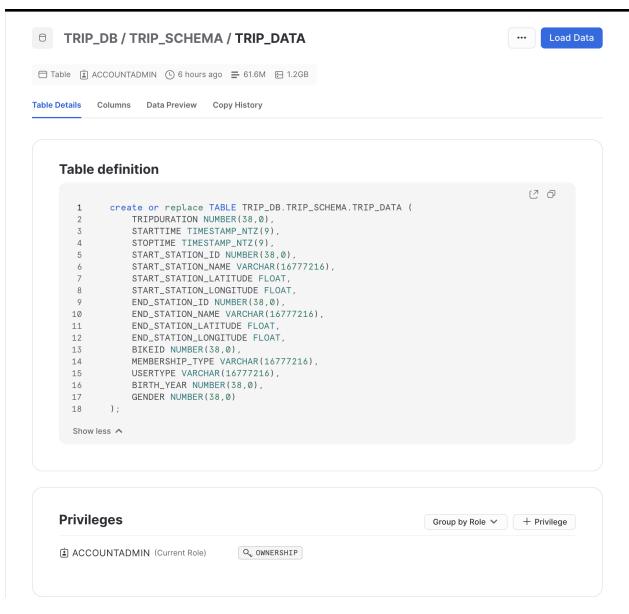
1. Create Database 'trip_db', Schema 'trip_schema' and Table 'trip_data' in Snowflake.

```
create or replace TABLE TRIP_DB.TRIP_SCHEMA.TRIP_DATA (
     TRIPDURATION NUMBER(38,0),
     STARTTIME TIMESTAMP NTZ(9),
     STOPTIME TIMESTAMP NTZ(9),
     START_STATION_ID NUMBER(38,0),
     START_STATION_NAME VARCHAR(16777216),
     START STATION LATITUDE FLOAT,
     START STATION LONGITUDE FLOAT,
     END STATION ID NUMBER(38,0),
     END STATION NAME VARCHAR(16777216),
     END_STATION_LATITUDE FLOAT,
     END_STATION_LONGITUDE FLOAT,
     BIKEID NUMBER(38,0),
     MEMBERSHIP TYPE VARCHAR(16777216),
     USERTYPE VARCHAR(16777216),
     BIRTH_YEAR NUMBER(38,0),
     GENDER NUMBER(38,0)
);
```





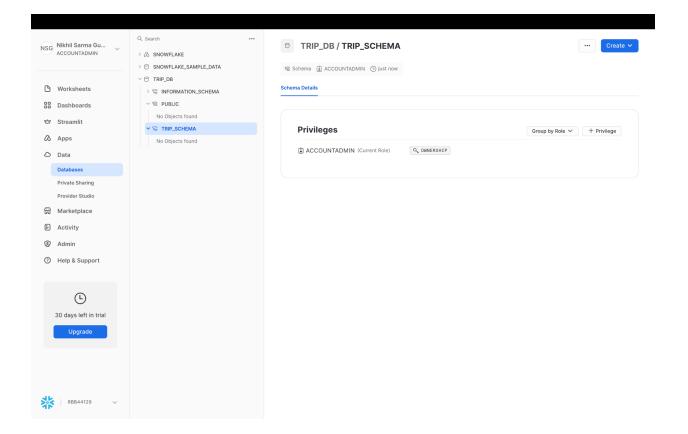




2. Create Stage 'trip_stage' in Snowflake.

CREATE STAGE trip_stage

URL = 's3://snowflake-workshop-lab/citibike-trips';



3. Create File Format 'trip_file_format' in the Snowflake.

CREATE FILE FORMAT trip_file_format

TYPE=CSV COMPRESSION = 'AUTO'

FIELD_DELIMITER =','

RECORD_DELIMITER = '\n'

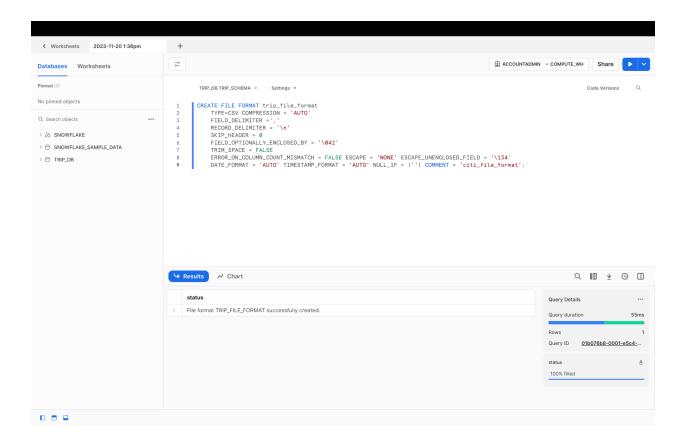
SKIP HEADER = 0

FIELD_OPTIONALLY_ENCLOSED_BY = '\042'

TRIM SPACE = FALSE

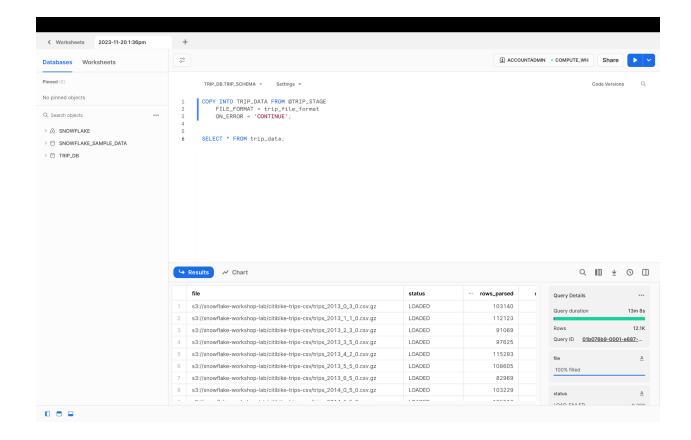
ERROR_ON_COLUMN_COUNT_MISMATCH = FALSE ESCAPE = 'NONE' ESCAPE_UNENCLOSED_FIELD = '\134'

DATE_FORMAT = 'AUTO' TIMESTAMP_FORMAT = 'AUTO' NULL_IF = (")
COMMENT = 'citi_file_format';



4. Load Data into the 'trip_data' table.

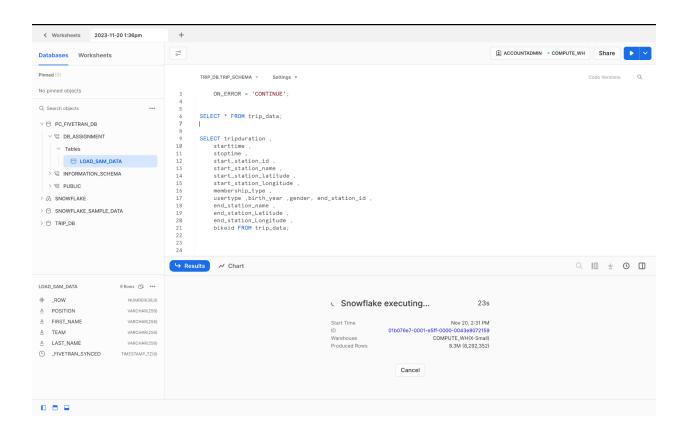
COPY INTO TRIP_DATA FROM @TRIP_STAGE FILE_FORMAT = trip_file_format ON_ERROR = 'CONTINUE';

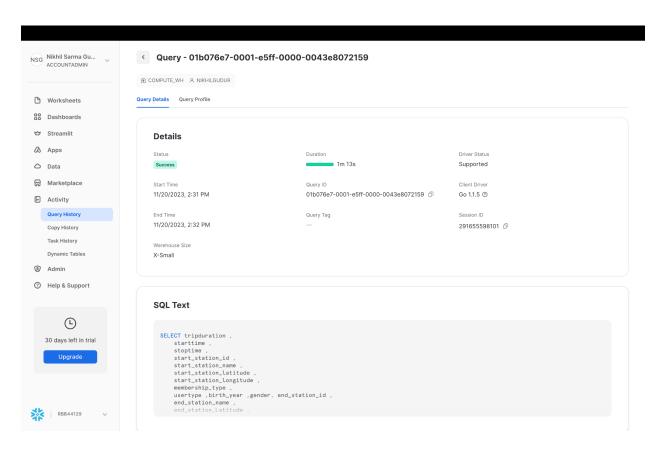


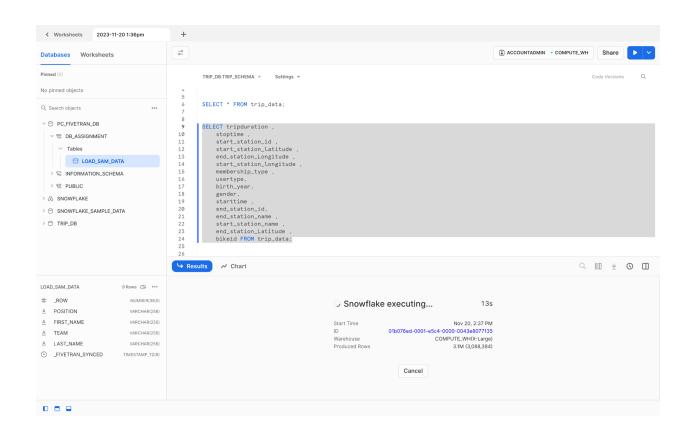
SELECT * FROM trip_data;

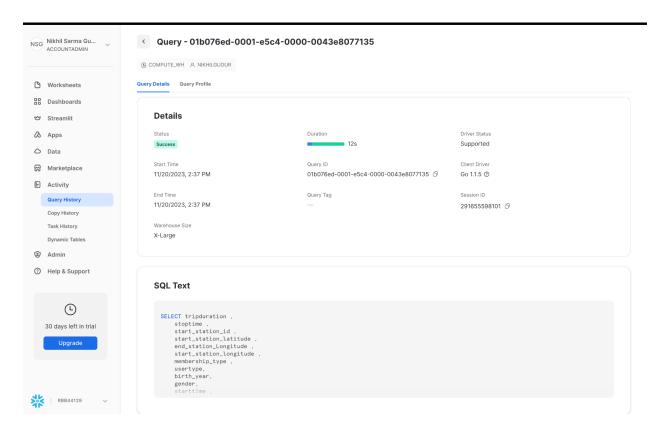
5. Analyze the performance of the node upon changing configurations from x-small to x-large in Snowflake.

x-large performance is better than that of x-small

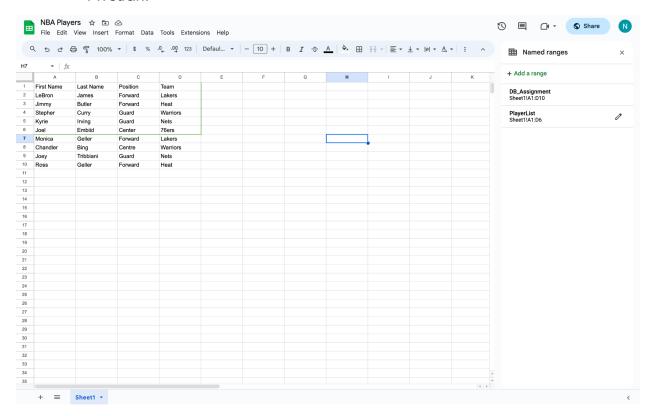




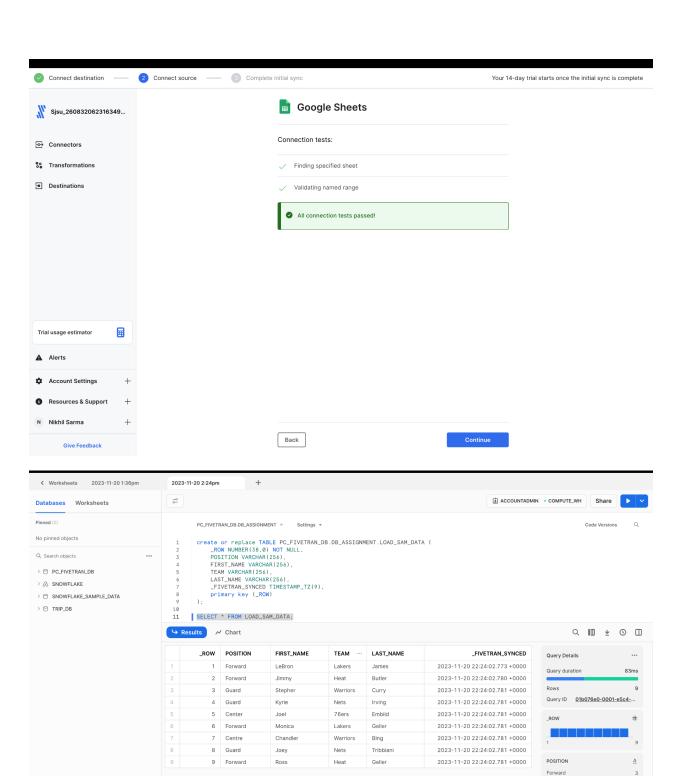




6. Create a copy of the Spreadsheet shared in the announcement, add a few more records, create a named range and load data into Snowflake with Fivetran.



7. Create the connector 'load_sam_data' and use it for the above-mentioned operation.



Guard

FIRST_NAME 100% filled 8. Initialize a DBT Repository, create a table sam_data with a few values (missing values too)

```
{{ config(materialized='table') }}
```

```
SELECT 1 as id, 'David' as name, NULL as age

UNION ALL

SELECT 2 as id, 'Rachel' as name, 49 as age

UNION ALL

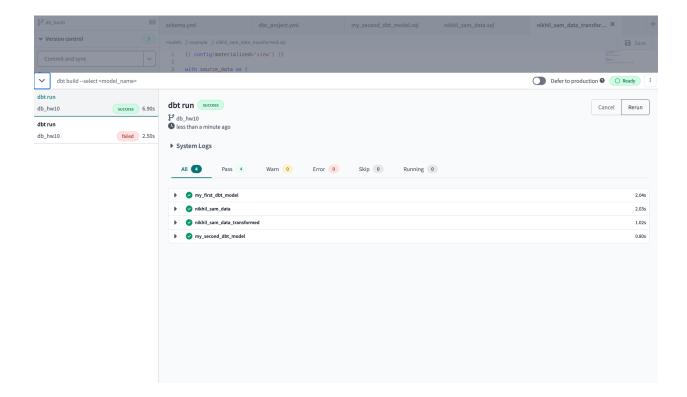
SELECT 3 as id, 'Chandler' as name, NULL as age

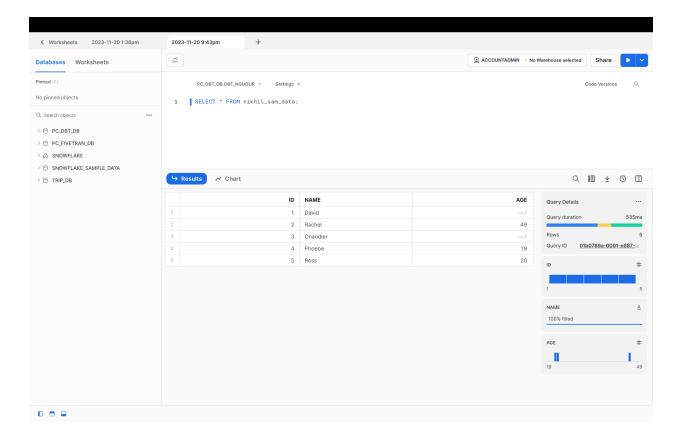
UNION ALL

SELECT 4 as id, 'Phoebe' as name, 19 as age

UNION ALL

SELECT 5 as id, 'Ross' as name, 20 as age
```





9. Apply transformation and remove null values and load data into Snowflake.

```
{{ config(materialized='view') }}
with source_data as (
select *
from {{ ref('nikhil_sam_data') }}
)
select *
from source_data
where age is not null
```

