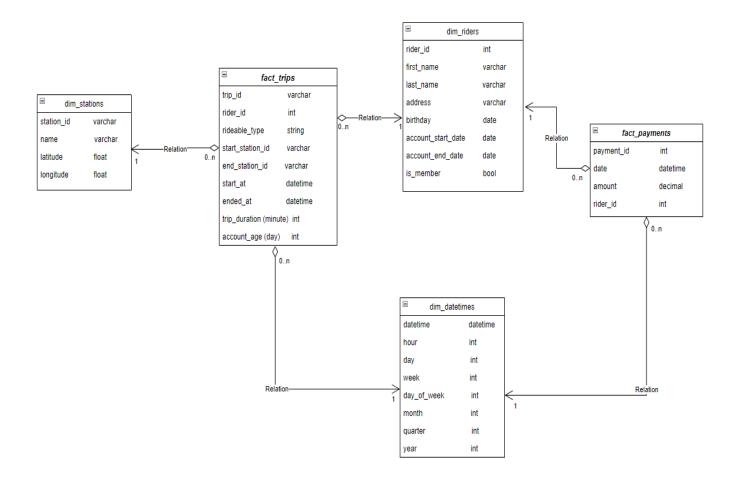
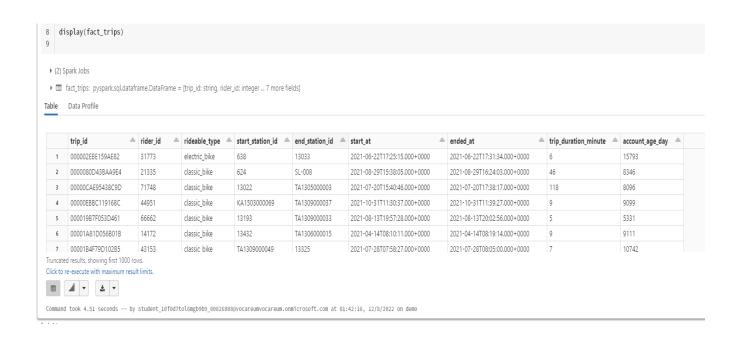
This is the Star Schema that I defined for this project:



I had 5 tables: 2 fact tables and 3 dimension tables (below is fields and data sample informations for these tables):

(See each page)

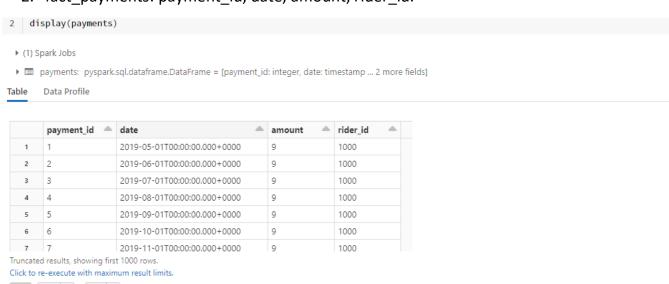
1. fact_trips: trip_id, rider_id, rideable_type, start_station_id, end_station_id, start_at, ended_at, trip_duration (minute), account_age (day).



2. fact_payments: payment_id, date, amount, rider_id.

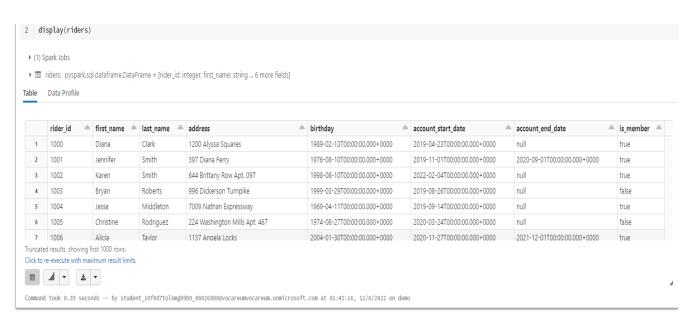
 \blacksquare

.all ▼

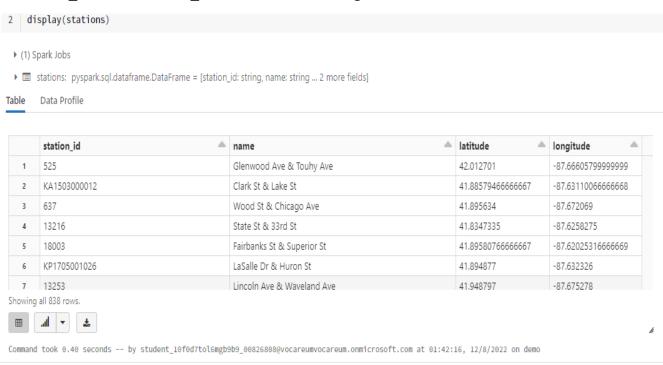


Command took 0.57 seconds -- by student_10f0d7tol6mgb9b9_00826808@vocareumvocareum.onmicrosoft.com at 01:42:16, 12/8/2022 on demo

3. dim_riders: rider_id, first_name, last_name, address, birthday, account_start_date, account_end_date, is_member.



4. dim_stations: station_id, name, latitude, longitude.



5. dim_datetimes: datetime, hour, day, week, weekday (day_of_week), month, quarter, year.

15 display(dim_datetimes)

- ▶ (4) Spark Jobs
- ▶ time_df: pyspark.sql.dataframe.DataFrame = [value: timestamp]
- ▶ 🔳 dim_datetimes: pyspark.sql.dataframe.DataFrame = [datetime: timestamp, hour: integer ... 6 more fields]

Table Data Profile

	datetime	hour	day	week 📤	day_of_week 📤	month $ riangle$	quarter $ riangle$	year 📤
1	2021-02-12T18:36:17.000+0000	18	12	6	6	2	1	2021
2	2021-02-27T10:35:38.000+0000	10	27	8	7	2	1	2021
3	2021-02-12T07:41:13.000+0000	7	12	6	6	2	1	2021
4	2021-02-27T14:33:11.000+0000	14	27	8	7	2	1	2021
5	2021-02-23T11:22:10.000+0000	11	23	8	3	2	1	2021
6	2021-02-11T11:42:52.000+0000	11	11	6	5	2	1	2021
7	2021-02-28T11:47:54.000+0000	11	28	8	1	2	1	2021

Truncated results, showing first 1000 rows.

Click to re-execute with maximum result limits.



Command took 1.97 minutes -- by student_10f0d7tol6mgb9b9_00826808@vocareumvocareum.onmicrosoft.com at 01:57:24, 12/8/2022 on demo

A