### Snowflake: Data Load/download

### Schema creation for Base table: Trips

snowsql -a kd11570.ap-southeast-2 -u SRDAS -f

/home/soumya/Documents/gitfolder/CityBikeTravel\_ETL/biketrip\_ddl.sql

## Stage table Creation and Bulk Data load:

snowsql -a kd11570.ap-southeast-2 -u SRDAS -f

/home/soumya/Documents/gitfolder/CityBikeTravel ETL/staging.sql

```
Table STAGING successfully created.
1 Row(s) produced. Time Elapsed: 0.494s
2016.csv_c.gz(4.94MB): [#########] 100.00% Done (11.807s, 0.42MB/s).
                       | source_size | target_size | source_compression | target_compression | status | mes
 2016.csv | 2016.csv.gz | 40281861 | 5184079 | NONE
                                                                                                 | UPLOADED |
1 Row(s) produced. Time Elapsed: 22.509s
                 size | md5
                                                           | last_modified
 2016.csv.gz | 5184080 | 7ccdc3b3f65f9a0843dfbe833bd419f2 | Sat, 12 Dec 2020 19:42:01 GMT
1 Row(s) produced. Time Elapsed: 0.418s
 file | status | rows_parsed | rows_loaded | error_limit | errors_seen | first_error | first_error_line | first_error_column_name |
file
| 2016.csv.gz | LOADED | 40
                            408160 | 408160 |
                                                                              0 NULL
1 Row(s) produced. Time Elapsed: 3.261s
```

Row	DEPARTURE_TIME	RETURN_TIME	DEPARTURE_STA	DEPARTURE_STA	RETURN_STATIO	RETURN_STATIO	COVERED_DISTA	DURATION	YEAR_MONTH	YEAR_VALUE
1	2016-09-30T23:58:00	2016-10-01T00:02:00	A06	Viiskulma	A03	Kapteeninpui	561	236	2016-09	2016
2	2016-09-30T23:56:00	2016-09-30T23:59:00	A18	Ritarikatu	A12	Unioninkatu	641	165	2016-09	2016
3	2016-09-30T23:54:00	2016-10-01T00:15:00	A03	Kapteeninpui	B07	Brahen kenttä	4392	1236	2016-09	2016
4	2016-09-30T23:54:00	2016-09-30T23:59:00	A31	Eläinmuseo	A23	Rautatientori	673	273	2016-09	2016
5	2016-09-30T23:53:00	2016-10-01	A12	Unioninkatu	A03	Kapteeninpui	1257	397	2016-09	2016

Data view snowflake: staging table

# Data Integration: Moving data from staging to => final table (incremental load every year) snowsql -a kd11570.ap-southeast-2 -u SRDAS -f

/home/soumya/Documents/gitfolder/CityBikeTravel\_ETL/data\_integration.sql

# **Bulk loading => Staging for next year(2017)**

## Integrating 2017 data with 2016 in TRIPS table:

```
(base) soumya@soumya-Inspiron-5559:~$ snowsql -a kd11570.ap-southeast-2 -u SRDAS -f /home/soumya/Documents/gitf
older/CityBikeTravel_ETL/data_integration.sql
 railed to initialize log. No logging is enabled: [Errno 13] Permission denied: '/home/snowsql_rt.log_bootstrap'
Tailed to initialize log. No logging is enabled: [Errno 13] Permission denied: '/home/snowsql_rt.log'
Password:
* SnowSQL * v1.2.10
Type SQL statements or !help
  status
  Statement executed successfully.
  Row(s) produced. Time Elapsed: 0.412s
  status
  Statement executed successfully.
  Row(s) produced. Time Elapsed: 0.407s
  Statement executed successfully.
  Row(s) produced. Time Elapsed: 0.377s
  number of rows inserted
 2201552 Row(s) produced. Time Elapsed: 3.820s
Goodbye!
      3 select DISTINCT(YEAR_VALUE) from "CITYBIKES"."PUBLIC"."TRIPS";
 Results Data Preview

✓ Query ID SQL

                            352ms
                                                        2 rows
                                                                Сору
 Filter result...
        Row YEAR_VALUE
           1 2016
           2 2017
    3 select MAX(YEAR_VALUE) from "CITYBIKES"."PUBLIC"."TRIPS";
 Results Data Preview
                     510ms

✓ Query ID SQL

                                         1 rows
 Filter result...
                                          ♣ Copy
      Row MAX(YEAR_VALUE)
  1 2017
```

## Download LATEST year from the database as .csv file:

```
(base) soumya@soumya-Inspiron-5559:~$ snowsql -a kd11570.ap-southeast-2 -u SRDAS -f /home/soumya/Documents/gitfolder/CityBikeTravel_ETL/yearvalue_download.sql
 ailed to initialize log. No logging is enabled: [Errno 13] Permission denied: '/home/snowsql rt.log_bootstrap'
ailed to initialize log. No logging is enabled: [Errno 13] Permission denied: '/home/snowsql_rt.log'
Password:
* SnowSQL * v1.2.10
Type SQL statements or !help
  Statement executed successfully.
1 Row(s) produced. Time Elapsed: 0.415s
  Statement executed successfully.
1 Row(s) produced. Time Elapsed: 0.453s
  Statement executed successfully.
1 Row(s) produced. Time Elapsed: 0.681s
 rows_unloaded | input_bytes | output_bytes |
  1 | 5 | 25
               1 |
1 Row(s) produced. Time Elapsed: 0.754s
data_0_0_0.csv.gz(0.00MB): [#########] 100.00% Done (0.818s, 0.00MB/s).
                      | size | status
                                            | message |
data_0_0_0.csv.gz | 25 | DOWNLOADED |
1 Row(s) produced. Time Elapsed: 6.731s
Goodbye!
```

This value is used by the scrapper for downloading the latest zip file from the web.