



# **Create Hive-Managed Tables**

#### Command to create the Hive tables

### 1. Connecting to Hive instance & creating database:

create database cab rides; use cab\_rides;

```
[hadoop@ip-172-31-32-102 ~]$ hive
Logging initialized using configuration in file:/etc/hive/conf.dist/hive-log4j2.properties Async: false hive> create database cab_rides;
    > use cab_rides;
```

### 2. Creating tables in Hive

```
CREATE TABLE IF NOT EXISTS clickstream_data (
 customer_id INT,
 app_version STRING,
 os version STRING,
 lat DOUBLE,
 Ion DOUBLE,
 page_id STRING,
 button_id STRING,
 is_button_click BOOLEAN,
 is_page_view BOOLEAN,
 is_scroll_up BOOLEAN,
 is_scroll_down BOOLEAN,
 time_stamp TIMESTAMP
) ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','
tblproperties('skip.header.line.count' = '1');
```

//To load the file with comma as delimiter //To skip the header present in the file





```
> CREATE TABLE IF NOT EXISTS clickstream data (
       customer id INT,
       app_version STRING,
       os version STRING,
       lat DOUBLE,
       lon DOUBLE,
       page_id STRING,
       button id STRING,
       is_button_click BOOLEAN,
       is page view BOOLEAN,
      is scroll up BOOLEAN,
      is scroll down BOOLEAN,
     time stamp TIMESTAMP
   > ) ROW FORMAT DELIMITED
   > FIELDS TERMINATED BY ','
   > tblproperties('skip.header.line.count' = '1');
Time taken: 0.078 seconds
```

```
CREATE TABLE IF NOT EXISTS bookings_detail (
 booking_id STRING,
 customer_id INT,
 driver_id INT,
 customer_app_version STRING,
 customer_phone_os_version STRING,
 pickup_lat DOUBLE,
 pickup_lon DOUBLE,
 drop_lat DOUBLE,
 drop_lon DOUBLE,
 pickup_timestamp TIMESTAMP,
 drop timestamp TIMESTAMP,
 trip_fare DECIMAL(10, 2),
 tip_amount DECIMAL(10, 2),
 currency code STRING,
 cab_color STRING,
 cab_registration_no STRING,
 customer_rating_by_driver INT,
 rating_by_customer INT,
 passenger_count INT
) ROW FORMAT DELIMITED
FIELDS TERMINATED BY ',';
```

//To load the file with comma as delimiter





```
> CREATE TABLE IF NOT EXISTS bookings detail (
      booking id STRING,
      customer id INT,
     driver id INT,
      customer app version STRING,
     customer phone os version STRING,
     pickup lat DOUBLE,
      pickup lon DOUBLE,
      drop lat DOUBLE,
       drop lon DOUBLE,
       pickup_timestamp TIMESTAMP,
       drop_timestamp TIMESTAMP,
      trip_fare DECIMAL(10, 2),
      tip_amount DECIMAL(10, 2),
      currency_code STRING,
      cab color STRING,
     cab registration no STRING,
     customer rating by driver INT,
     rating by customer INT,
       passenger count INT
   > ) ROW FORMAT DELIMITED
     FIELDS TERMINATED BY ',';
ime taken: 0.331 seconds
hive>
```

```
CREATE TABLE IF NOT EXISTS datewise_total_bookings (
    pickup_date DATE,
    total_bookings INT
) ROW FORMAT DELIMITED
FIELDS TERMINATED BY ','

//To load the file with comma as delimiter
tblproperties('skip.header.line.count' = '1');

//To skip the header present in the file
```

3. Loading the Clickstream data into Hive tables using files in HDFS & validating the contents of the tables created

LOAD DATA INPATH '/user/root/clickstream/part-00000-92e9241c-50b9-47dc-a89a-038a0dd6a675-c000.csv' OVERWRITE INTO TABLE clickstream\_data;

Select \* from clickstream data limit 2;





### SELECT COUNT(DISTINCT(CUSTOMER\_ID)) FROM CLICKSTREAM\_DATA;

\*\* No of records ingested is having slight difference of 16 records with the validation documents due to live streaming data.

#### Clickstream Table Count

Please check the number of records in the clickstream table

```
Number of records - 2984
```

4. Loading the Bookings data into Hive tables using files in HDFS & validating the contents of the tables created

LOAD DATA INPATH '/user/root/bookings/part-m-00000' OVERWRITE INTO TABLE bookings\_detail;

select count(\*) from bookings\_detail;





```
hive>
| Shadoop@ip-172-31-32-102:~ hive | hive>
| Shadoop@ip-172-31-32-102:~ hive | hive>
| Shadoop@ip-172-31-31-32-102:~
```

\*\* No of records ingested is matching is matching with the validation documents

5. Loading the Date-wise total bookings data into Hive tables using files in HDFS & validating the contents of the tables created

LOAD DATA INPATH '/user/root/datewise\_bookings\_agg/part-\*.csv' OVERWRITE INTO TABLE datewise\_total\_bookings;

select count(\*) from datewise\_total\_bookings;

\*\* No of records ingested is matching is matching with the validation documents





## **Bookings Aggregates Table Count**

Please check the number of records in the bookings aggregates table

Number of records - 289