

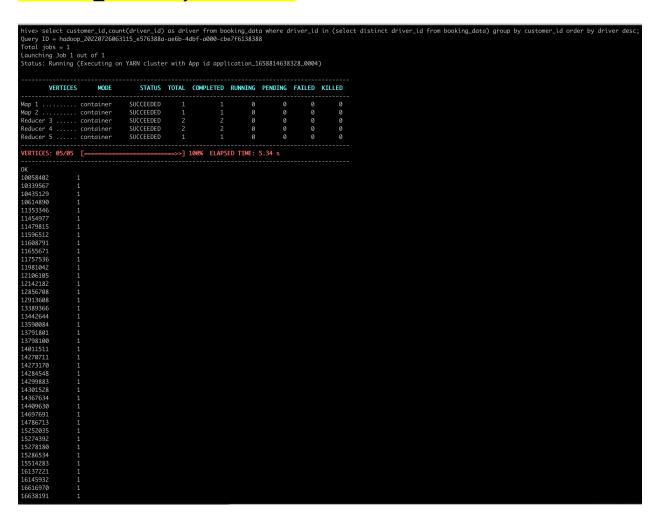


## Logic For Final Submission

<Explain the queries, list them and attach screenshots after successful execution of queries>

- 1. Calculate the total number of different drivers for each customer.
- → We have selected 2 columns customer\_id and count with driver\_id with where clause for unique driver\_id on booking\_data table and finally grouped based on customer\_id to get count for unique driver for each customer\_id.

select customer\_id,count(driver\_id) as driver from booking\_data where driver\_id in (select distinct driver\_id from booking\_data) group by customer\_id order by driver desc;



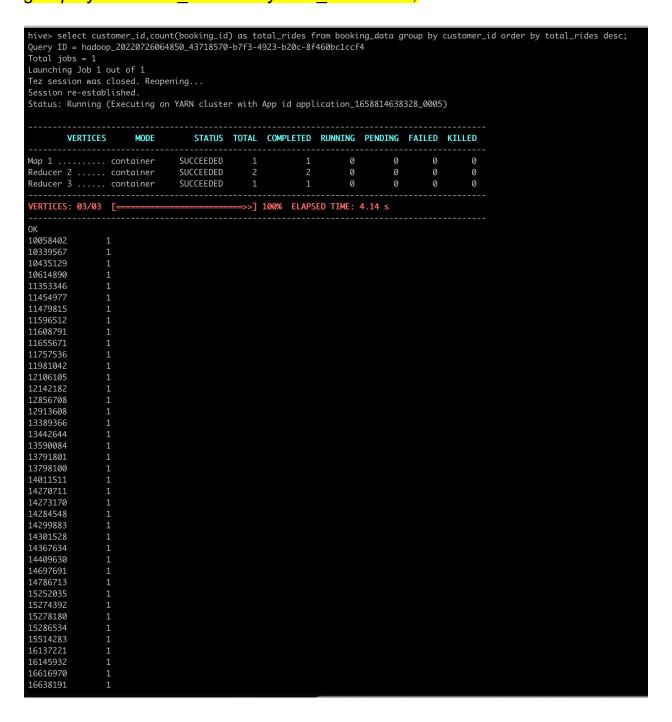




## 2. Calculate the total rides taken by each customer.

→ We have selected customer\_id and count with booking\_id to get total rides for each customer from booking\_data table and order the output in descending based on count of booking\_id.

select customer\_id,count(booking\_id) as total\_rides from booking\_data group by customer\_id order by total\_rides desc;





OR



3. Find the total visits made by each customer on the booking page and the total 'Book Now' button presses. This can show the conversion ratio.

→Here we are first finding the count of data with button\_id fcba68aa-1231-11eb-adc1-0242ac120002 from the clickstream\_data tablen which comes 999.

Next we are finding the count of data with page\_id e7bc5fb2-1231-11eb-adc1-0242ac120002 from the clickstream\_data table which comes 1014.

Ratio = 999/1014 = 0.985

select b.count(customer\_id)/a.count(customer\_id) from clickstream\_data as a join clickstream\_data as b on a.customer\_id=b.customer\_id where a.page\_id='e7bc5fb2-1231-11eb-adc1-0242ac120002';

(select count(\*) from clickstream\_data where button\_id='fcba68aa-1231-11eb-adc1-0242ac120002')/(select count(\*) from clickstream\_data where page\_id='e7bc5fb2-1231-11eb-adc1-0242ac120002');

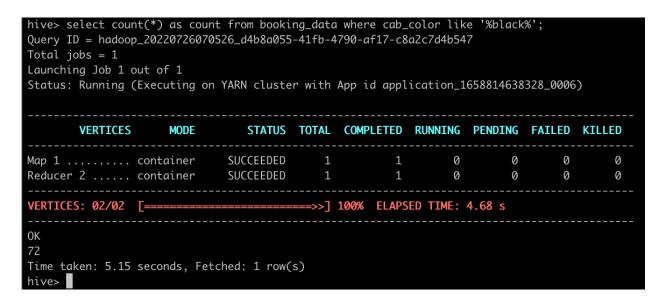
invex select count(*) from clickstream_data where page_id='e7bc5fb2-1231-11eb-adc1-0247 luery ID = hadoop_20220726191847_d8124466-e3ea-4785-a717-ecb8a30e4c0f otal jobs = 1 aunching Job 1 out of 1 litatus: Running (Executing on YARN cluster with App id application_1658859095286_0004)  VERTICES MODE STATUS TOTAL COMPLETED RUNNING PENDING FAILED For the selection of the selection	 KILLED  0 0
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- 4. Calculate the count of all trips done on black cabs.
- → Here we have simply counted all the data from booking\_data table with cab\_color black. Also used like instead of equals to match black irrespective of case.

select count(\*) as count from booking\_data where cab\_color like
'%black%';







- 5. Calculate the total amount of tips given date wise to all drivers by customers.
- → Here we have first extracted date from drop\_timestamp using to\_date function and summed tip\_amount from booking\_data table and grouped based on date obtained.

select to\_date(drop\_timestamp), sum(tip\_amount) as tips from booking\_data group by to date(drop timestamp);

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\label{local-problem} \mbox{hive-select to\_date(drop\_timestamp), sum(tip\_amount) as tips from booking\_data \ group by to\_date(drop\_timestamp);}
Query ID = hadoop_20220726071414_625684c1-6d66-4baf-a83b-2dcfb6da8f5b
Total jobs = 1
Launching Job 1 out of 1
Tez session was closed. Reopening...
Session re-established.
Status: Running (Executing on YARN cluster with App id application_1658814638328_0007)
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                      MODE
                                  STATUS TOTAL COMPLETED RUNNING PENDING FATLED KILLED
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                                                                                              0
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                                SUCCEEDED
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                                              >>] 100% ELAPSED TIME: 4.45 s
2020-01-03
2020-01-05
2020-01-09
2020-01-11
                241
2020-01-13
                205
2020-01-16
2020-01-17
                368
2020-01-18
                44
2020-01-20
                88
2020-01-25
                160
2020-01-26
2020-01-27
                356
2020-01-30
                250
2020-01-31
2020-02-02
                82
2020-02-04
                158
2020-02-07
2020-02-08
2020-02-09
                228
2020-02-11
                176
2020-02-12
                382
2020-02-14
                102
2020-02-16
                403
2020-02-17
2020-02-21
                263
2020-02-23
                157
2020-02-24
2020-02-25
                141
2020-02-29
                59
2020-03-01
                439
2020-03-05
                210
2020-03-10
                381
2020-03-19
2020-03-20
2020-03-22
2020-03-23
                154
2020-03-26
2020-03-27
                357
2020-03-30
                233
2020-04-04
                133
2020-04-05
                94
```





- 6. Calculate the total count of all the bookings with ratings lower than 2 as given by customers in a particular month.
- → Here we have parsed month and year and counted all data with rating\_by\_customer less than 2 and grouped by year and month.

select year(drop\_timestamp) as year,month(drop\_timestamp) as month,count(\*) from booking\_data where rating\_by\_customer<2 group by year,month;

- 7. Calculate the count of total iOS users.
- → In this query we have simply counted all the data with os\_version iOS from clickstream\_data. Here also we have used like instead of equal just to avoid any missing data due to case indifference.

select count(\*) as count from clickstream\_data where os\_version like
'%iOS%';