Task 1 select customer\_id, count(driver\_id) from bookings group by customer\_id limit 20;

```
select customer_id, count(driver_id) from bookings group by customer_id
    > limit 20;
Query ID = hadoop_20220615143228_cd3f9eb5-aa3c-430c-9e51-2b748529bac7
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_1655298450638_0003)
        VERTICES
                        MODE
                                     STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
                                  SUCCEEDED
Map 1 ..... container
                                  SUCCEEDED
10555335
10592274
10678994
11264797
11518953
11580321
Time taken: 9.194 seconds, Fetched: 20 row(s)
```

In this task, we use bookings table and we select 2 columns : customer\_id and driver\_id. We group by customer\_id and count the values in column driver\_id

# # task 2

select customer id, count(\*) from bookings group by customer id limit 20;

```
hive> select customer_id, count(*) from bookings group by customer_id limit 20;
Query ID = hadoop_20220615143808_c251879f-1877-4828-98bc-363e74105d1b
Total jobs = 1
Tez session was closed. Reopening...
Status: Running (Executing on YARN cluster with App id application 1655298450638 0004)
         VERTICES
                         MODE
                                       STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED
Map 1 ..... container
Reducer 2 ..... container
                                    SUCCEEDED
10555335
10592274
10678994
 1596512
11655671
11757536
Time taken: 9.268 seconds, Fetched: 20 row(s)
```

In this task, we also use bookings table and we also select customer\_id column, but this time, we count values in every row then group by customer\_id. So we will get each customer.

#### # task 3

select (sum(case when button\_id = "fcba68aa-1231-11eb-adc1-0242ac120002" and is\_button\_click = 'Yes' then 1 end) / sum(case when page\_id = "e7bc5fb2-1231-11eb-adc1-0242ac120002" and is page view = 'Yes' then 1 end)) as conversion ratio from clickstream;

```
hive> select (sum(case when button_id = "fcba68aa-1231-11eb-adc1-0242ac120002" and is_button_click = 'Yes' then 1 end) / sum(case when page_id = "e7bc5fb2-12 31-11eb-adc1-0242ac120002" and is_page_view = 'Yes' then 1 end)) / sconversion_ratio from clickstream;

Query ID = hadoop_20220615144044_0fea4406-e698-4d9e-af21-241efcblcf47

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1655298450638_0004)

VERTICES MODE STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED

Map 1 ....... container SUCCEEDED 1 1 0 0 0 0 0

Reducer 2 ..... container SUCCEEDED 1 1 0 0 0 0 0

VERTICES: 02/02 [----->] 100% ELAPSED TIME: 4.00 s

OK

ON_9688109161793372

Time taken: 4.563 seconds, Fetched: 1 row(s) hives |
```

In this task, first we use clicking\_stream table, and we sum up values where button\_id = "fcba68aa-1231-11eb-adc1-0242ac120002" and is\_button\_click = 'Yes' and save it. And then we sum up values where page\_id = "e7bc5fb2-1231-11eb-adc1-0242ac120002" amd is\_page\_view = 'Yes' and save it again. Finally, we divide the first sum by the second sum to get conversion ratio

# # task 4

select count(\*) from bookings where cab color = 'black';

In this task, we use bookings table and just count every row where cab\_color = 'black'

## # task 5

select date(pickup\_timestamp), sum(tip\_amount) from bookings group by date(pickup\_timestamp) limit 20;

In this task, we use bookings table again. Here, we select 2 columns pickup\_timestamp and tip\_amount. We sum tip\_amount and group by pickup\_timestamp to get total tip\_amount for each particular date.

## # task 6

select date\_format(pickup\_timestamp, 'YYYY-MM') as monthwise, count(\*) as total\_bookings from bookings where rating\_by\_customer < 2 group by date\_format(pickup\_timestamp, 'YYYY-MM') order by monthwise;

In this task, we also use bookings table. We use function date\_format with pickup\_timestamp column to retrieve the desired format 'YYYYMM' and name it as monthwise. Then we count each row of which rating\_by\_customer is less than 2. Then we group by the date\_format we created earlier and finally sort the query in ascending order.

# task 7
select count(\*) from clickstream where os\_version = 'iOS';

In this task, we use clicking\_stream table and we count every row where os\_version = 'iOS' to get the number of users who use iOS.