



Logic Final Submission

Explanation of the queries for the given tasks.

Calculate the total number of different drivers for each customer.

Query

Explanation

In this query we selected 2 columns, customer_id and driver_id from the booking table and grouped this by customer_id. We used the COUNT() function for the driver_id column to count the number of rows returned with DISTINCT to select unique rows from the table booking_data. In this way we can get the details required in Task 5.

Screenshot showing query run

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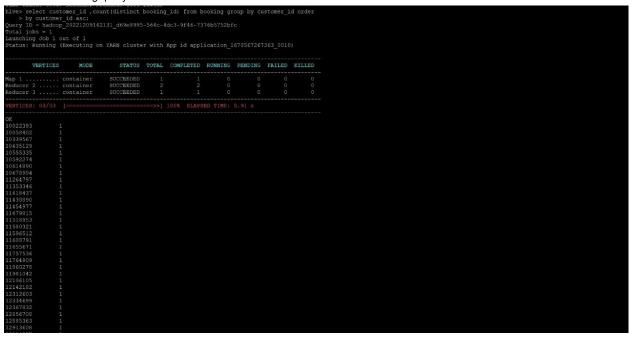
Calculate the total rides taken by each customer

Query

Explanation

In this task, we selected 2 columns, customer_id and booking_id from the booking table and grouped this by customer_id and ordered by customer_id in ascending order. We used the COUNT() function for the booking_id column to count the number of rows returned with DISTINCT to select unique rows from the table booking_data. In this way we can get the details required in task 6

Screenshot showing query run



 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.

The booking page id is 'e7bc5fb2-1231-11eb-adc1-0242ac120002'.

The Book Now button id is 'fcba68aa-1231-11eb-adc1-0242ac120002'. You also need to calculate the conversion ratio as part of this task. Conversion ratio can be





calculated as Total 'Book Now' Button Press/Total Visits made by customer on the booking page.

Explanation

In this task, first we use clickstream table, and we used SUM() function to sum up values where button_id = "fcba68aa-1231-11eb-adc1-0242ac120002" and is_button_click = 'Yes'. Once again, we used SUM() function to sum up values where page_id = "e7bc5fb2-1231-11eb- adc1-0242ac120002" and is_page_view = 'Yes' and Finally, we divide the first sum by the second sum to get the conversion ratio. In this way we can get the details required in task 7.

Screenshot showing query run

Calculate the count of all trips done on black cabs

Query





Explanation

In this task, we selected 2 columns, cab_color and driver_id from the booking table and we used the WHERE clause to filter the data where cab_color is 'black' and then we grouped this by cab_color. We used the COUNT() function for the driver_id column to count the number of rows returned with DISTINCT to select unique rows from the table booking. In this way we can get the details required in task 8.

Screenshot showing query run

• Calculate the total amount of tips given date wise to all drivers by customers.

Query

Explanation

In this task, we selected 2 columns, pickup_date and tip_amount from the booking table and then we ordered this by pickup_date in ascending order. We used the SUM() function for the tip_amount column to return the total amount of tips given. In this way we can get the details required in task 9.





Screenshot showing query run

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Note the process of t
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 Calculate the total count of all the bookings with ratings lower than 2 as given by customers in a particular month

Query

Explanation

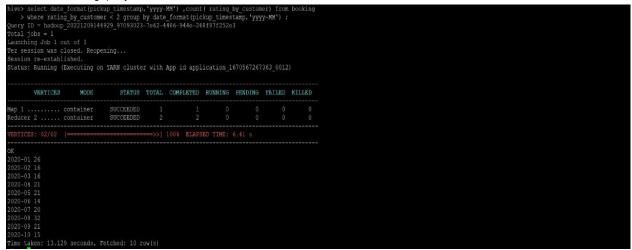
In this task, we selected 2 columns, pickup_timestamp and rating_by_customer from booking table and we used where clause to filter the data where rating_by_customer < 2 and then we grouped this by date_format(pickup_timestamp,'yyyy-mm'). We used DATE_FORMAT() function to extract the pickup date for pickup_timestamp column in





'yyyy-mm' format and COUNT() function for rating_by_customer column to count the number of rows returned. In this way we can get the details required in task 10

Screenshot showing query run



Calculate the count of total iOS users.

Query

Explanation

In this task, we selected 2 columns, os_version and customer_id from the clickstream_data table and we used the WHERE clause to filter the data where os_version is 'iOS' and then we grouped this by os_version. We used the COUNT() function for the customer_id column to count the number of rows returned with DISTINCT to select unique rows from the table clickstream. In this way we can get the details required in task 11

Screenshot showing query run





```
hive> select os version , count(distinct customer_id) from clickstream where os version in ('ios') group
    > by os version;
guery ID = hadoop 20221209145102_f303f167-a939-4e56-b0c7-c27cffb7348b
    Total jobs = 1
    Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1670567267363_0012)

VERTICES MODE STATUS TOTAL COMPLETED RUNNING PENDING FAILED KILLED

dap 1 ....... container SUCCEEDED 1 1 0 0 0 0
Reducer 2 .... container SUCCEEDED 2 2 0 0 0 0 0
VERTICES: 02/02 [==========>>] 100% ELAPSED TIME: 5.92 s

JK
iOS 1515
Fime taken: 6.644 seconds, Fetched: 1 row(s)
```