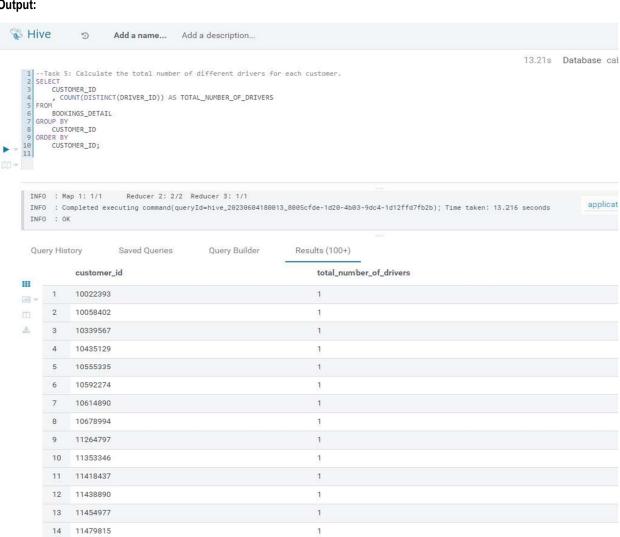
Queries

Task 5: Calculate the total number of different drivers for each customer.

Query:-

```
SELECT
       CUSTOMER ID
        COUNT(DISTINCT(DRIVER_ID))
       TOTAL_NUMBER_OF_DRIVERS
FROM
       BOOKINGS_DETAIL
GROUP BY
       CUSTOMER_ID
ORDER BY
       CUSTOMER_ID;
```



Note: Expected output is exactly matching with validation document.

Task 6: Calculate the total rides taken by each customer.

Query:-

```
SELECT

CUSTOMER_ID
, COUNT(BOOKING_ID) AS TOTAL_RIDES

FROM

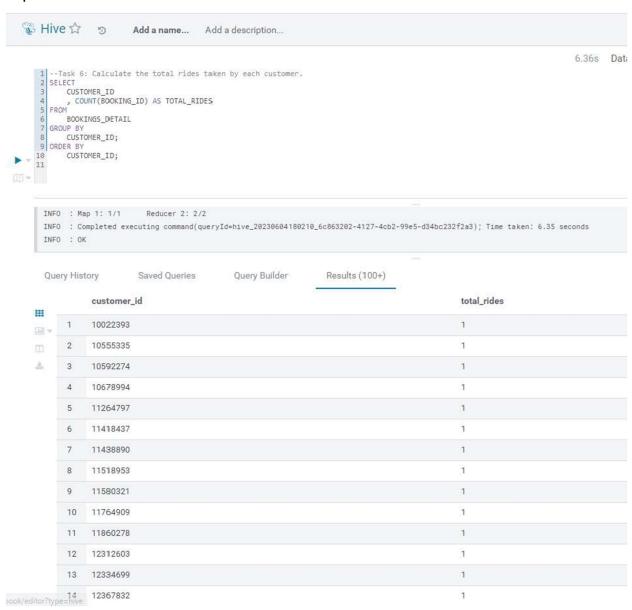
BOOKINGS_DETAIL

GROUP BY

CUSTOMER_ID;

ORDER BY

CUSTOMER_ID;
```



Note: Expected output is exactly matching with validation document.

Task 7: 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 bycustomer on the booking page**.

Query:-

SELECT

```
SUM(CASE WHEN PAGE_ID = 'e7bc5fb2-1231-11eb-adc1-0242ac120002' THEN 1 ELSE 0 END) AS TOTAL_PAGE_VISITS, SUM(CASE WHEN BUTTON_ID = 'fcba68aa-1231-11eb-adc1-0242ac120002' THEN 1 ELSE 0 END) AS TOTAL_BUTTON_PRESSED, ROUND(CAST(SUM(CASE WHEN BUTTON_ID = 'fcba68aa-1231-11eb-adc1-0242ac120002' THEN 1 ELSE 0 END) AS FLOAT) / CAST(SUM(CASE WHEN PAGE_ID = 'e7bc5fb2-1231-11eb-adc1-0242ac120002' THEN 1 ELSE 0 END) AS FLOAT), 4) AS CONVERSION_RATIO FROM CLICKSTREAM_DATA;
```

Output:-



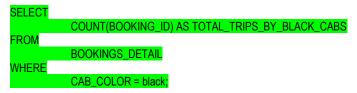
Validation:-

When you run the query to get the conversion ratio, you should get the conversion ratio as 0.9688.

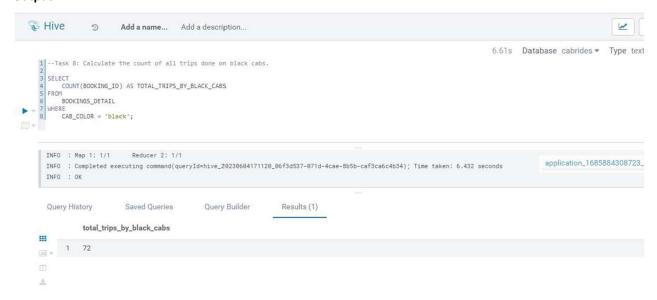
Note: Slightly difference in conversion ratio that is because ~16 event were captured from kafka stream.

Task 8: Calculate the count of all trips done on black cabs.

Query:-



Output:



Validation:

- 3. When you run the query to get the conversion ratio, you should get the conversion ratio as **0.9688**.
- 4. Count of all trips done on black cabs 72.
- 5. When you run the query to get the total amount of tips given date wise to all drivers by customers, you would get an output as shown below:

Note: Number of trips are exactly matching with validation document.

Task 9: Calculate the total amount of tips given date wise to all drivers by customers.

Query:-

SELECT

```
DATE(PICKUP_TIMESTAMP)
TRIP_DATE ,
ROUND(SUM(TIP_AMOUNT),0)
AS TOTAL TIP AMOUNT
```

FROM

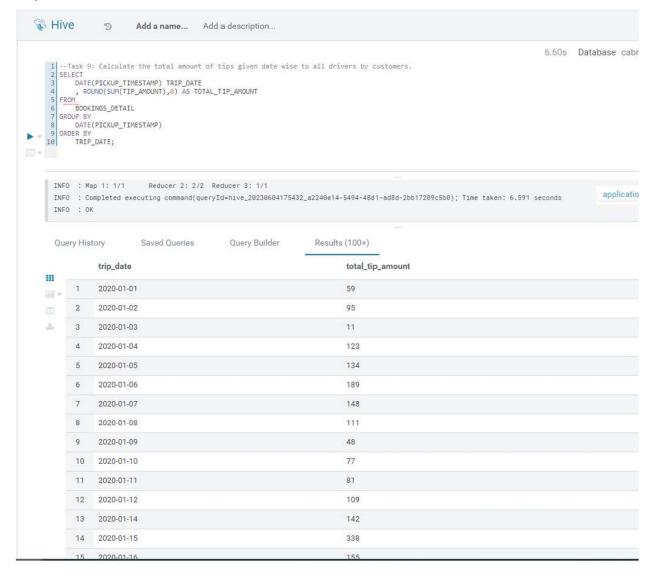
BOOKINGS DETAIL

GROUP BY

DATE(PICKUP_TIMESTAMP)

ORDER BY

TRIP DATE;



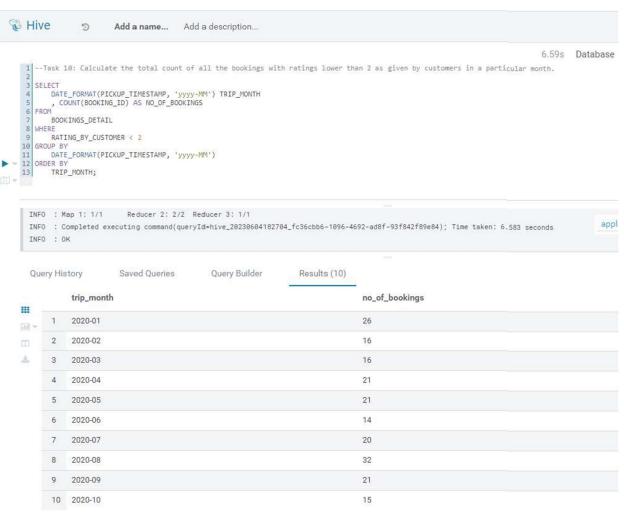
vandation.	
2020-01-01	59
2020-01-02	95
2020-01-03	11
2020-01-04	123
2020-01-05	134
2020-01-06	189
2020-01-07	148
2020-01-08	111
2020-01-09	48
2020-01-10	77
2020-01-11	81
2020-01-12	109
2020-01-14	142
2020-01-15	338
2020-01-16	155
2020-01-17	296
2020-01-18	240
2020-01-20	210
2020-01-21	5
2020-01-23	148
2020-01-24	472
2020-01-25	98
2020-01-26	209
2020-01-27	231
2020-01-28	567
2020-01-29	123
2020-01-30	112
2020-01-31	256
2020-02-01	317
2020-02-02	338
2020-02-03	191
2020-02-04	258
2020-02-05	212
2020-02-06	154
2020-02-07	91
2020-02-08	270

Note: Total amount of tips is exactly matching with validation document.

Task 10: Calculate the total count of all the bookings with ratings lower than 2 as given by customers in a particular month.

Query:-

```
SELECT
DATE_FORMAT(PICKUP_TIMESTAMP,
'yyyy-MM') TRIP_MONTH,
COUNT(BOOKING_ID) AS
NO_OF_BOOKINGS
FROM
BOOKINGS_DETAIL
WHERE RATING_BY_CUSTOMER < 2
GROUP BY
DATE_FORMAT(PICKUP_TIMESTAMP,
'yyyy-MM')
ORDER BY
TRIP_MONTH;
```



```
Total MapReduce CPU Time Spent: 7 seconds 970 msec
OK
2020-01 26
2020-02 16
2020-03 16
2020-04 21
2020-05 21
2020-06 14
2020-07 20
2020-08 32
2020-09 21
2020-10 15
```

Note: Count of bookings by month is exactly matching with validation document.

Task 11: Calculate the count of total iOS users.

Query:-

SELECT

COUNT(DISTINCT(CUSTOMER _ ID) AS TOTAL_IOS_USERS

FROM

CLICKSTREAM_DATA

WHERE

OS_VERSION = 'iOS';



7. You should get the count of all iOS users as 1503.

Note: 3004 event were captured from kafka stream where in validation documents its 2984 hence iOS user are slightly more in our analysis.