



Capstone Project - Validation Document

Note: Please note that records retrieved from the Kafka topic and related metrics given below can vary a bit.

Data Ingestion with Sqoop

Please check the number of records that are imported after the Sqoop Job

Number of records retrieved - 1000

Bookings Table Count

Please check the number of records in the bookings table

Number of records - 1000

Clickstream Table Count

Please check the number of records in the clickstream table

Number of records - 2984

Bookings Aggregates Table Count

Please check the number of records in the bookings aggregates table

Number of records - 289





Hive Queries

1. When you run the query to calculate the total number of different drivers for each customer, you would get an output as shown below:

```
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2020-11-17 12:23:06,034 Stage-1 map = 04, reduce = 04, Cumulative CPU 3.27 sec
2020-11-17 12:23:12,334 Stage-1 map = 1004, reduce = 1004, Cumulative CPU 7.69 sec
MapReduce Total cumulative CPU inter: 7 seconds 690 msec
Ended Job = job 160561516654 0005
MapReduce Jobs Faunched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.69 sec HDFS Read: 43007 HDFS Write: 11000 SUCCESS
Total MapReduce CPU Time Spent: 7 seconds 690 msec

OK
10022393 1
10058402 1
10053035 1
10639357 1
106393694 1
11264797 1
11353346 1
11434897 1
11438980 1
11438980 1
11438980 1
11436971 1
11580321 1
11580321 1
11580521 1
11685671 1
11757536 1
11763994 1
11860278 1
11860278 1
11860278 1
11860278 1
11860278 1
11860383 1
1224182 1
12334603 1
12334603 1
12334603 1
1236638 1
12384678 1
12385363 1
12385363 1
12885363 1
1298577 1
12986509 1
12885363 1
12986577 1
12986509 1
12986577 1
```

2. When you run the query to calculate the total rides taken by each customer, you would get an output as shown below:





- 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:





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

6. When you run the query to get the total count of all the bookings with ratings lower than 2 as given by customers in a particular month, you would get an output as shown below:





```
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
```

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