Data Exploration Using SQL

Q What is the total number of completed trips?

SELECT COUNT(1) as "Total Trips" FROM trips_detail WHERE end ride = 1;

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	otp_entered					
>	983					

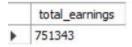
Q How many drivers are there?

SELECT COUNT(DISTINCT driverid) AS "Total Drivers" FROM trips;



Q What is the total driver's earnings during a day?

SELECT SUM(fare) AS total_earnings FROM trips;



Q What is the total number of searches that took place?

SELECT COUNT(*) Searches FROM trips_detail
WHERE searches = 1;



Q What is the total number of searches which got estimate?

SELECT SUM(searches_got_estimate) searches FROM trips_detail;



Q What is the total of searches for quotes?

SELECT SUM(searches for quotes) searches FROM trips detail;



Q What is the total number of searches that got quotes?

SELECT SUM(searches_got_quotes) searches FROM trips_detail;



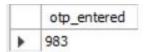
Q What is the number of times a cancellation was made by drivers?

SELECT (COUNT(tripid) - SUM(driver_not_cancelled)) driver_cancelled_trips FROM trips_detail;



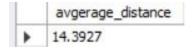
Q What is the number of times OTP entered?

SELECT SUM(otp_entered) AS otp_entered FROM trips_detail;



Q What is the average distance travelled per trip?

SELECT AVG(distance) AS avgerage distance FROM trips;



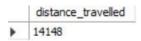
Q What is the average fare per trip?

SELECT AVG(fare) avg_fare FROM trips;



Q What is the total distance travelled during a day?

SELECT SUM(distance) distance travelled FROM trips;



Q Which is the most preferred payment method?

SELECT * FROM payment

WHERE id = (SELECT faremethod FROM trips

GROUP BY 1 ORDER BY COUNT(tripid) DESC

LIMIT 1);



Q Through which mode of payment, the highest fare was paid?

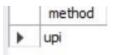
SELECT a.method , b.fare FROM payment a JOIN (SELECT * FROM trips WHERE fare = (SELECT MAX(fare) FROM trips)) b ON a.id = b.faremethod;



Q Through which method, total fare paid was highest in a day?

SELECT method FROM payment
WHERE id = (SELECT faremethod FROM trips

GROUP BY faremethod ORDER BY SUM(fare) DESC LIMIT 1);



Q Which two locations had most trips?

loc_from loc

	loc_from	loc_to
•	16	21
	35	5

Q Who are top 5 earning drivers?

```
SELECT driverid,rno FROM (
SELECT * ,DENSE_RANK() OVER(ORDER BY fare DESC ) rno
FROM( SELECT driverid, SUM(fare) fare FROM trips GROUP BY 1 ) a ) b
WHERE rno < 6;
```

	driverid	rno
•	12	1
	8	2
	21	3
	24	4
	30	5

Q For what duration had most of the trips occurred during a day?

```
SELECT duration

WHERE id = ( SELECT b.duration

FROM ( SELECT *,

DENSE_RANK() OVER(ORDER BY cnt DESC) rnk

FROM ( SELECT duration, COUNT(DISTINCT tripid) cnt

FROM trips GROUP BY 1 ) a

)

b WHERE rnk < 2 );
```

```
duration

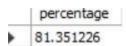
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Q Which driver and customer pair had most trips together?

	driverid	custid	cnt	rnk
•	17	96	4	1
	28	15	4	1

Q What is the conversion from search to estimate rate?

SELECT SUM(searches_got_estimate)*100.00/SUM(searches) AS percentage FROM trips_detail;



Q What is conversion from the estimate to search for quote rates?

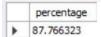
SELECT SUM(searches_for_quotes)*100.00/SUM(earches_got_estimate) AS percentage FROM trips_detail;

```
percentage

82.764505
```

Q What is the quote acceptance rate?

SELECT SUM(searches_got_quotes)*100.00/SUM(searches_for_quotes) AS percentage FROM trips_detail;



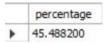
Q What is the booking cancellation rate?

SELECT SUM(driver_not_cancelled)*100.00/SUM(searches_got_quotes) AS percentage FROM trips_detail;

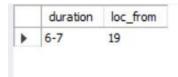


Q What is conversion rate?

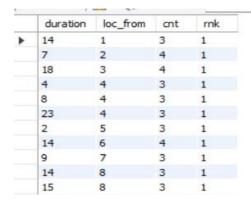
SELECT SUM(end ride)*100.00/SUM(searches) AS percentage FROM trips detail;



Q Which area got highest trips in a single duration?



Q Which duration got the highest number of trips in each of the location present?



```
Q Which area has highest aggregated fare prices compared to others?
SELECT * FROM
(SELECT *,
RANK() OVER(ORDER BY fare DESC) rnk
FROM (SELECT loc from, SUM(fare) fare
FROM trips GROUP BY 1) a
) b
WHERE rnk <2:
    loc_from fare
                   rnk
6
            30295
Q Which area has highest number of cancellations by drivers?
SELECT * FROM
(SELECT loc from,
(COUNT(1) - SUM(driver_not_cancelled)) AS driver_cancellation,
       DENSE RANK() OVER( ORDER BY (COUNT(1) - SUM(driver not cancelled)) DESC) rnk
FROM trips detail
GROUP BY 1) a
WHERE rnk < 2;
    loc from
               cancelled
                         rnk
              43
                         1
Q Which area got highest number of cancellations by customer?
SELECT * FROM (
SELECT loc from , (COUNT(1) - SUM(customer not cancelled)) customer cancellation ,
       dense rank() OVER( ORDER BY (count(1) - SUM(customer not cancelled)) DESC) rnk
FROM trips detail
GROUP BY 1) a
WHERE rnk < 2;
     loc_from customer_cancellation rnk
              40
Q Which duration got the highest fares?
WITH highest_fare AS (
      SELECT * FROM(
      SELECT * , RANK() OVER(ORDER BY fare DESC) rnk FROM
      (SELECT duration, SUM(fare) fare FROM trips GROUP BY 1) a) b
      WHERE rnk < 2)
SELECT d.duration, h.fare FROM highest fare h
JOIN duration d ON h.duration = d.id
      duration
                fare
```

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