

/* **Questions** */

Q1: Total no of trips which are successfully completed?

```
select max(tripid) from trips;
select count(*) as total_trips from trips;
```

-- Alternate method

```
select count(*) as total_trips from trips_details
where end_ride =1;
```

Q2: Check any duplicate tripid are exist?

```
select tripid, count(tripid) as cnt from trips_details
group by tripid
having count(tripid);
```

Q3: Total no of drivers?

```
select count(distinct driverid) as Total_Drivers from trips;
```

Q4: Total no of earnings?

```
select sum(fare) from trips;
```

Q5: Total no of completed trips?

```
select count(end_ride) as completed_trips from trips_details
where end_ride = 1;
```

Q6: Total no of searches?

```
select count(searches) searches from trips_details
where searches = 1;
```

Q7: Total no of searches which got an estimate?

```
select count(searches_got_estimate) searches from trips_details
where searches = 1 and searches_got_estimate = 1;
```

Q8: Total searches_for_quotes? (means after seeing the estimation how many searches happened)

```
select count(searches_for_quotes) searches from trips_details
```

where searches = 1 and searches_got_estimate = 1 and searches_for_quotes =1;

Q9: Total searches_got_quotes?

select sum(searches_got_quotes) searches from trips_details;

Q10: Total numbers of trips which were not cancelled by customers?

select count(customer_not_cancelled) searches from trips_details
where customer_not_cancelled =1;

Q11: Total numbers of trips which were not cancelled by drivers?

select count(driver_not_cancelled) searches from trips_details
where driver_not_cancelled =1;

Q12: Total numbers of trips which were cancelled by drivers ?

select count(driver_not_cancelled) searches from trips_details
where driver_not_cancelled !=1;

-- Alternate method

select count(*) - sum(driver_not_cancelled) from trips_details;

Q13: Total number of OTP entered?

select count(otp_entered) from trips_details
where otp_entered = 1;

Q14: Total number of end rides?

select count(end_ride) from trips_details
where end_ride = 1;

Q15: Average distance for trips?

select cast(avg(distance) as int) from trips;

Q16: Average fare per trip?

select tripid , avg(fare) from trips
group by tripid

Q17: Average fare for trips?

```
select cast(avg(fare ) as int) from trips;
```

Q18: Total distance travelled ?

```
select sum(distance) from trips;
```

Q19: What is the most used payment method?

```
select p.method
from payment p
join (SELECT faremethod, COUNT(DISTINCT tripid)
FROM trips
GROUP BY faremethod
ORDER BY COUNT(DISTINCT tripid) DESC
limit 1) as t on t.faremethod = p.id;
```

Q20: Highest payment was made through which method ?

```
select p.method
from payment p
join ( select faremethod,max(fare) as ms from trips group by faremethod order by max(fare)
desc limit 1) as m on m.faremethod = p.id;
```

-- Alternate method

```
select p.method
from payment p
join (select faremethod, sum(fare) from trips
group by faremethod
order by sum(fare) desc limit 1)as m on m.faremethod = p.id;
```

Q21: Which two locations had the most trips (from location)?

```
select l.assembly1 from loc l
join
(select loc_from, count(loc_from) from trips
group by loc_from
order by count(loc_from) limit 2) as f on f.loc_from = l.id
```

Q22: Which two location had the most trips? (from location to location) (NESTED QUERIES)

```
select * from
(select *, dense_rank() over(order by tripidd desc) as denseRank
```

```

from (select loc_from,loc_to ,count(distinct tripid) as tripidd from trips
group by loc_from,loc_to
) as a ) as b
where denseRank = 1;

```

Q23: Top 5 earnings Drivers?

```

select * from (
select *, dense_rank() over(order by fare desc) as denseRank
from (select driverid, sum(fare) as fare from trips
group by driverid)as b ) as c
where denseRank <=5;

```

Q24: Which duration had more trips?

```

select *
from(select *, dense_rank() over( order by NoOftrips desc) as denseRank
from (select duration, count(duration) as NoOftrips from trips
group by duration ) as a) as b
where denseRank =1;

```

Q25: Which driver, customer pair had the most orders?

```

select *
from (select *, dense_rank() over(order by trip desc ) as denseRank
from (select driverid, custid, count(tripid) as trip from trips
group by driverid, custid) as a) as b
where denseRank = 1;

```

Q26a: Search to estimate rate?

```

select sum(searches_got_estimate)* 100/ sum(searches) from trips_details;

```

b: estimate to search for quote rates

```

select sum(searches_for_quotes)* 100/ sum(searches) from trips_details;

```

c: quote acceptance rate

```

select sum(searches_got_quotes)* 100/ sum(searches) from trips_details;

```

d:quote booking rate

```

select sum(customer_not_cancelled)* 100/ sum(searches) from trips_details;

```

e: booking cancellation rate

```
select 100 - (sum(customer_not_cancelled)* 100/ sum(searches)) from trips_details;
```

Q27: Which area got the highest trips in which duration(in each duration particularly)?

```
select *
from(
select *, dense_rank() over(partition by duration order by cnt desc) as denseRank
from(select duration,loc_from , count(loc_from) as cnt
from trips
group by duration, loc_from) as a) as b
where denseRank = 1;
```

Q28: Which area got the highest fares?

```
select * from
(select *, dense_rank() over( order by fare_sum desc) as denseRank
from
(select loc_from, sum(fare) as fare_sum from trips
group by loc_from) as a) as b
where denseRank =1;
```

Q29: Which duration got the highest trips and fares?

```
select * from
(select *, dense_rank() over( order by fare desc) as denseRank
from
(select duration, sum(fare) as fare
from trips
group by duration) as a) as b
where denseRank =1;
```

-- Alternate method

```
select * from
(select *, dense_rank() over( order by fare desc) as denseRank
from
(select duration, count(distinct tripid) as fare
from trips
group by duration) as a) as b
where denseRank =1;
```