Uber SQL Query

I have used 2023_uber_raw data for the query.

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1. What are the total number of trips and total revenue generated by each vendor?

```
select
    count(*) as total_number_of_trip,
    sum(total_amount) as total_revenue
from
    uber_data
group by
    vendorid;
```

Output:

```
--Q.No.1 What are the total number of trips and total revenue generated by each vendor?
select
    count(*) as total_number_of_trip,
    sum(total_amount) as total_revenue
from
    uber_data
group by
    vendorid;
```

lts Chart

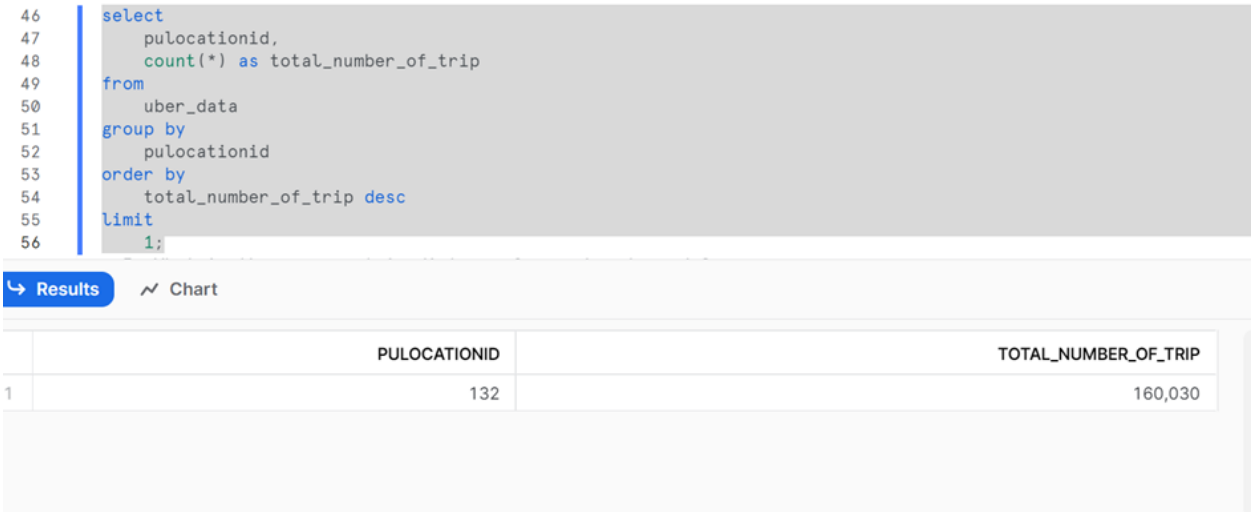
TOTAL_NUMBER_OF_TRIP	···	TOTAL_REVENUE
827,367		21,308,854.75
2,239,399		61,556,337.47

2. Which pickup location has the highest number of trips?

```
select
    pulocationid,
    count(*) as total_number_of_trip
from
```

```
    uber_data
group by
    pulocationid
order by
    total_number_of_trip desc
limit
    1;
```

Output:



```
select
    pulocationid,
    count(*) as total_number_of_trip
from
    uber_data
group by
    pulocationid
order by
    total_number_of_trip desc
limit
    1;
```

Results | Chart

	PULOCATIONID	TOTAL_NUMBER_OF_TRIP
1	132	160,030

3. What is the average trip distance for each rate code?

```
select
    avg(trip_distance) as avg_trip_distance
from
    uber_data
group by
    ratecodeid;
```

Output:

```
57  --3. What is the average trip distance for each rate code?
58  select
59      avg(trip_distance) as avg_trip_distance
60  from
61      uber_data
62  group by
63      ratecodeid;
64  --4. What is the total revenue and average tip amount of each amount type?
65  select
66      sum(total_amount) as total_revenue,
67      avg(tip_amount)
```

Results | Chart

	AVG_TRIP_DISTANCE
1	2.758417574
2	5.669170378
3	34.021255153
4	1.066666667

4. What is the total revenue and average tip amount of each amount type?

```
select
    sum(total_amount) as total_revenue,
    avg(tip_amount)
from
    uber_data
group by
    payment_type;
```

Output:

```
64  --4. What is the total revenue and average tip amount of each amount type?
65  select
66      sum(total_amount) as total_revenue,
67      avg(tip_amount)
68  from
69      uber_data
70  group by
71      payment_type;
72
73
```

Results | Chart

	TOTAL_REVENUE	...	AVG(TIP_AMOUNT)
1	68,240,616.86		4.170799453
2	85,023.35		0.05149022434
3	12,260,056.18		0.001675011884
4	189,364.69		0.02946901182

5. What is the total revenue and average fare amount for each day of the week?

```
select
    dayname(tpep_pickup_datetime) as day,
    sum(total_amount) as total_amount,
    avg(fare_amount) as fare_amount
from
    uber_data
group by
    day;
```

Output:

```
74  --5. What is the total revenue and average fare amount for each day of the week?
75  select
76      dayname(tpep_pickup_datetime) as day,
77      sum(total_amount) as total_amount,
78      avg(fare_amount) as fare_amount
79  from
80      uber_data
81  group by
82      day;
83
```

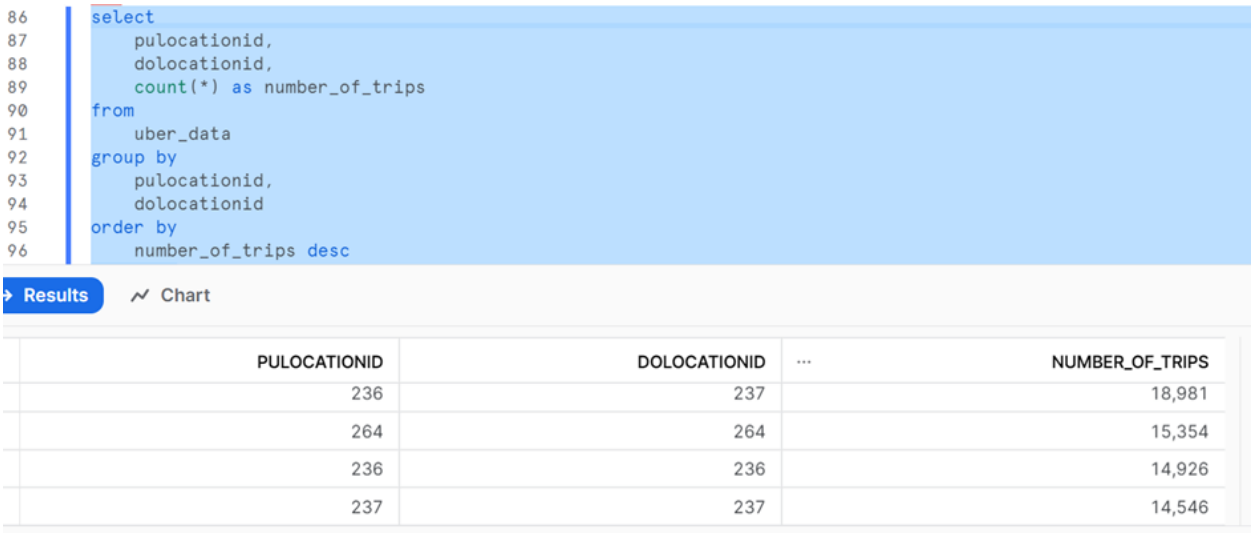
Results | Chart

	DAY	TOTAL_AMOUNT	FARE_AMOUNT
1	Tue	13,327,506.29	18.30155126
2	Wed	11,080,978.92	17.844233502
3	Sun	12,229,934.75	19.54829988
4	Thu	11,963,763.44	18.20707987

6. What are the top 5 pickup and drop-off locations based on number of trips?

```
select
    pulocationid,
    dolocationid,
    count(*) as number_of_trips
from
    uber_data
group by
    pulocationid,
    dolocationid
order by
    number_of_trips desc
Limit 5;
```

Output:



```
select
    pulocationid,
    dolocationid,
    count(*) as number_of_trips
from
    uber_data
group by
    pulocationid,
    dolocationid
order by
    number_of_trips desc
```

Results | Chart

PULOCATIONID	DOLOCATIONID	...	NUMBER_OF_TRIPS
236	237		18,981
264	264		15,354
236	236		14,926
237	237		14,546

7.Which day of the week has the highest average trip distance?

```
select
    dayname(tpep_pickup_datetime) as day,
    avg(trip_distance) as avg_trip_distance
from
    uber_data
group by
```

```
    day
order by
    avg_trip_distance desc
limit
    1;
```

Output:

```
100  select
101      dayname(tpep_pickup_datetime) as day,
102      avg(trip_distance) as avg_trip_distance
103  from
104      uber_data
105  group by
106      day
107  order by
108      avg_trip_distance desc
109  limit
110      1;
```

Results | Chart

DAY	...	AVG_TRIP_DISTANCE
Sun		4.509317102

8. What is the total revenue generated by each rate code for trips with more than two passengers?

```
select
    sum(total_amount) as total_revenew,
    count(*)
from
    uber_data
where
    passenger_count > 2
group by
    ratecodeid;
```

```sql
--8. What is the total revenue generated by each rate code for trips with more than 2 passengers?
select
    sum(total_amount) as total_revenew,
    count(*)
from
    uber_data
where
    passenger_count > 2
group by
    ratecodeid;
```

Results | Chart

	TOTAL_REVENEW	...	COUNT(*)
1	5,183,972.4		216,366
2	180,551.41		2,040
3	48,503.85		423
4	924,800.35		10,464