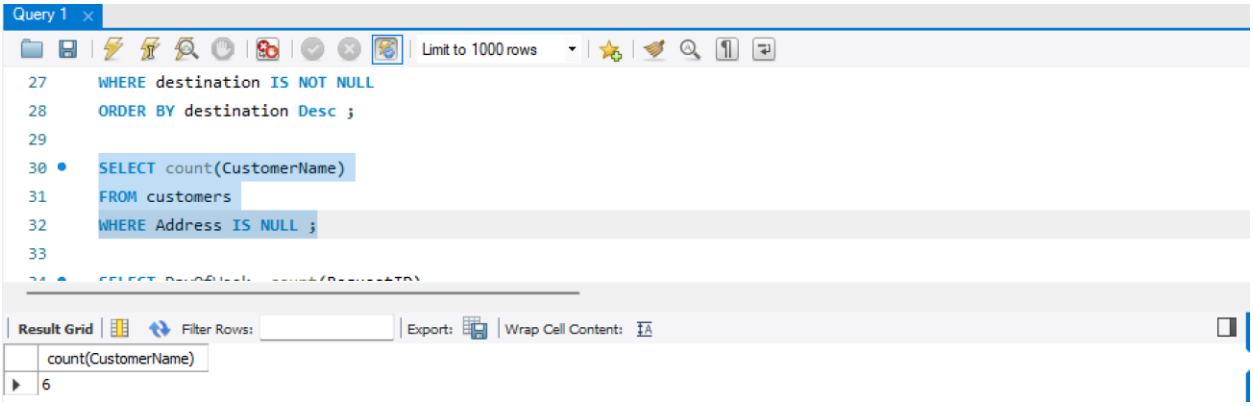
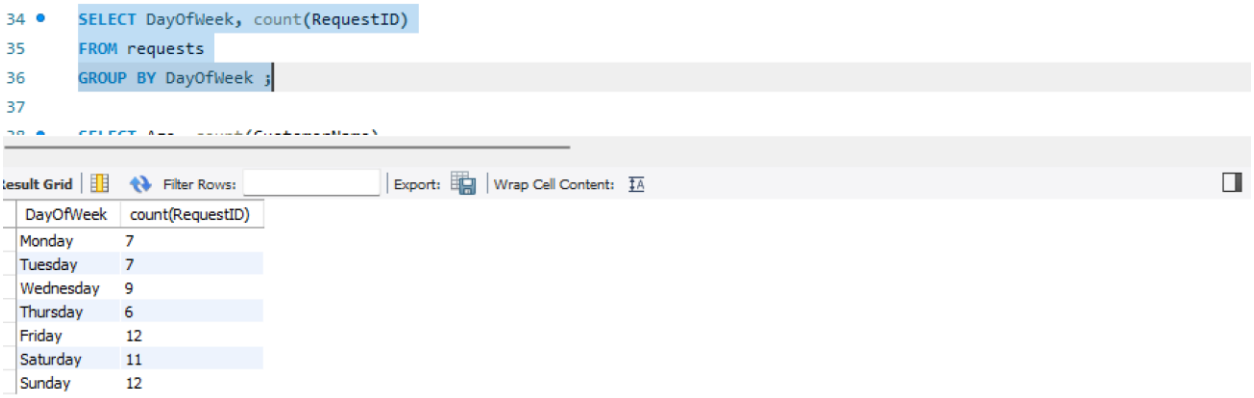
7. Develop one query that will help find how many customers do not have addresses.

A:



8. Calculate the number of requests for each day of the week

A:



9. Explain some of the previous results (in Question #8). Specifically, explain why there might be variation across days.

A:

As the data above illustrates, there are more requests on Friday, Saturday, and Sunday. Our inference is that after workdays, people finally have free time on Friday night and at the weekend. They might tend to go out and have some fun or travel to places that are further than places they are used to visiting, hence, the demand for Lyft would increase in those days.

10. For each age level of customers between 30 – 35, find the total number of past trips and minimum number of past trip for that age group. Also, include the number of customers in that age group. Sort the results by the age of customers. In other words, find the number of trips, etc, for 30-year-olds, 31-year-olds, … 35-year-olds.

A:

```
38 •  SELECT Age, sum(PastTrips), min(PastTrips), count(CustomerName)
39    FROM customers
40    WHERE Age >= 30 AND Age <= 35
41    Group BY Age
42    Order BY Age;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Age	sum(PastTrips)	min(PastTrips)	count(CustomerName)
30	1	1	2
31	1	1	1
34	14	7	2
35	12	1	4

11. For each driver of a white car, find all trips. Include the Destination and 2 other attributes in your results. Sort results in decreasing order of customer name

A:

```
44 •  SELECT CustomerName, Destination, Distance
45    FROM drivers INNER JOIN requests
46    ON drivers.DriverName = requests.DriverName
47    WHERE Color = 'White'
48    Order BY CustomerName DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerName	Destination	Distance
Todd Vaughn	NULL	NULL
Todd Vaughn	NULL	NULL
Saniyah Powell	Gardens	20
Rylee King	Grants Farm	20
Miranda Jennings	NULL	NULL
Miranda Jennings	Arch	21
Mariela Meyer	Stadium	4
Mariana Schwartz	Stadium	17
Lennon Hunt	WashU	23
Gemma Chavez	Grants Farm	9
Emerson Gilbert	NULL	NULL
Barrett Calderon	WashU	5
Athena Dennis	NULL	NULL

12. Find the name, gender, and address of customers that drove to the Stadium this past week.

A:

```
50 •  SELECT customers.CustomerName, Gender, Address
51    FROM customers INNER JOIN requests
52    ON customers.CustomerName = requests.CustomerName
53    WHERE Destination = 'Stadium'
54    GROUP BY customers.CustomerName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerName	Gender	Address
Lennon Hunt	M	St. Louis
Saniyah Powell	M	NULL
Mariana Schwartz	F	St. Louis
Mariela Meyer	F	Clayton
Rylee King	F	Chesterfield

13. List the number of requests for each customer. Sort the results in increasing order of number of requests. Note, include also customer address

A:

```
55 •  SELECT customers.CustomerName, count(RequestID) as request, address
56    FROM customers INNER JOIN requests
57    ON customers.CustomerName = requests.CustomerName
58    GROUP BY customers.CustomerName
59    Order BY count(RequestID);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerName	request	address
Athena Dennis	1	St. Louis
Dominic Bryan	1	Ballwin
Mya Nash	1	NULL
Emerson Gilbert	2	Florissant
Jesse Mckee	2	Florissant
Milton Wu	2	St. Louis
Gemma Chavez	3	St. Louis
Miranda Jennings	3	NULL
Tyrell Humphrey	3	Clayton
Barrett Calderon	4	NULL
Saniyah Powell	4	NULL
Mariana Schwartz	5	St. Louis
Rylee King	5	Chesterf...
Lennon Hunt	6	St. Louis
Mariela Meyer	6	Clayton
Todd Vaughn	6	St. Louis
Sidney Wheeler	10	Chesterf...

14. How much time did you spend on this assignment?

A:

About 1.5 hours