

# VISUALIZATION OF THE BUSINESS REQUIREMENTS

## TABLEAU VISUALIZATIONS

### 1.How many accidents occurred in NYC, Austin and Chicago?

```
select count(*),s.`Source`
from FACT_ACCIDENTS a join DIM_Source s ON a.SK_Source=s.sk_source
group by a.SK_Source;
```

▶ Run
❏ Cancel
🔌 Disconnect
🔄 Change
Database: FinalProjectMVC ▼

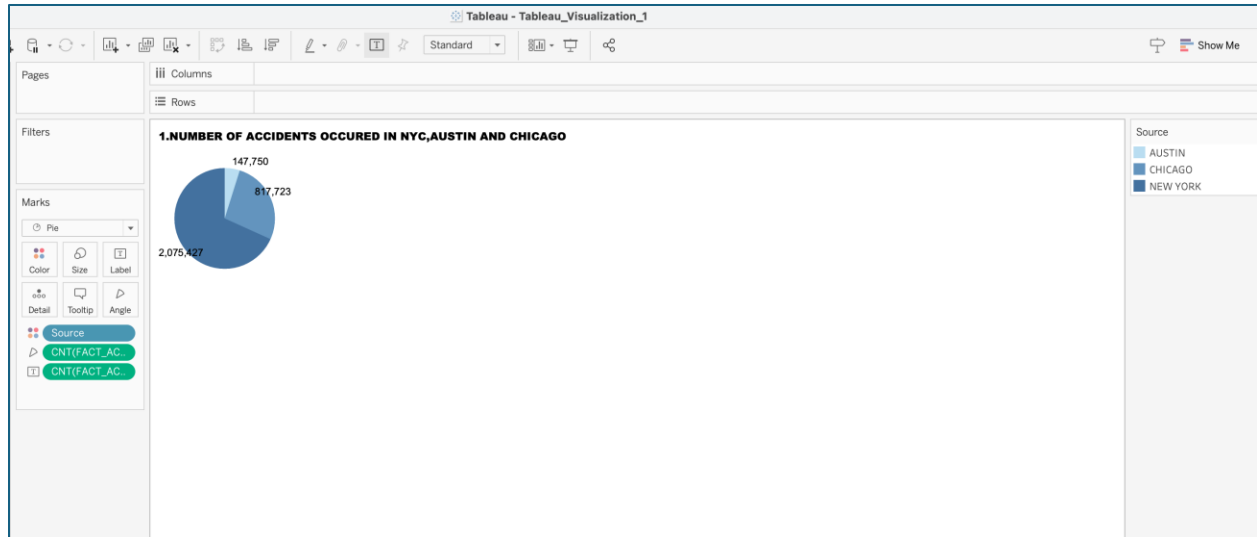
```

1  --1.How many accidents occurred in NYC, Austin and Chicago?
2  select count(*),s.`Source`
3  from FACT_ACCIDENTS a join DIM_Source s ON a.SK_Source=s.sk_source
4  group by a.SK_Source;

```

**Results**
**Messages**

	count(*) ▼	Source ▼
1	2075427	NEW YORK
2	817723	CHICAGO
3	147750	AUSTIN



## 2.Which areas in the 3 cities had the greatest number of accidents?

```

WITH RankedAccidents AS (
  SELECT
    a.sk_location,
    s.SOURCE,
    l.street_name,
    COUNT(*) AS maxAccidents,
    DENSE_RANK() OVER (
      PARTITION BY a.sk_source
      ORDER BY COUNT(*) DESC
    ) AS SourceRank
  FROM FACT_ACCIDENTS a
  JOIN DIM_Location l ON a.sk_location = l.sk_location
  JOIN DIM_Source s ON a.sk_source = s.sk_source
  GROUP BY a.sk_location, a.sk_source, l.street_name
)
SELECT
  ra.sk_location,
  ra.SOURCE,
  ra.street_name,
  ra.maxAccidents,
  ra.SourceRank
FROM RankedAccidents ra
WHERE ra.SourceRank <= 3
ORDER BY ra.SOURCE, ra.SourceRank;

```

SQLQuery\_1 - localh... (root) SQLQuery\_3.sql - localh... (root) SQLQuery\_2 - localh... (root)

Database: FinalProjectMVC

```

1 --2.Which areas in the 3 cities had the greatest number of accidents?
2 WITH RankedAccidents AS (
3   SELECT
4     sk_location

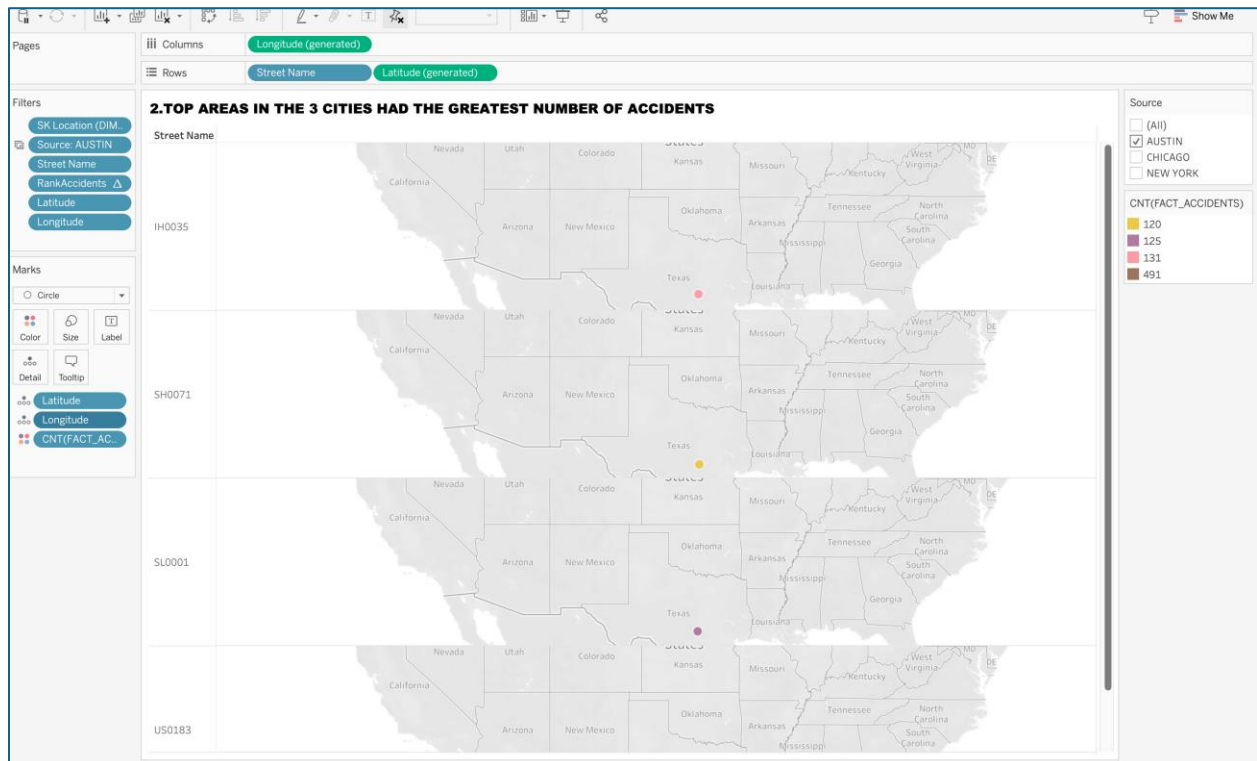
```

**Results** Messages

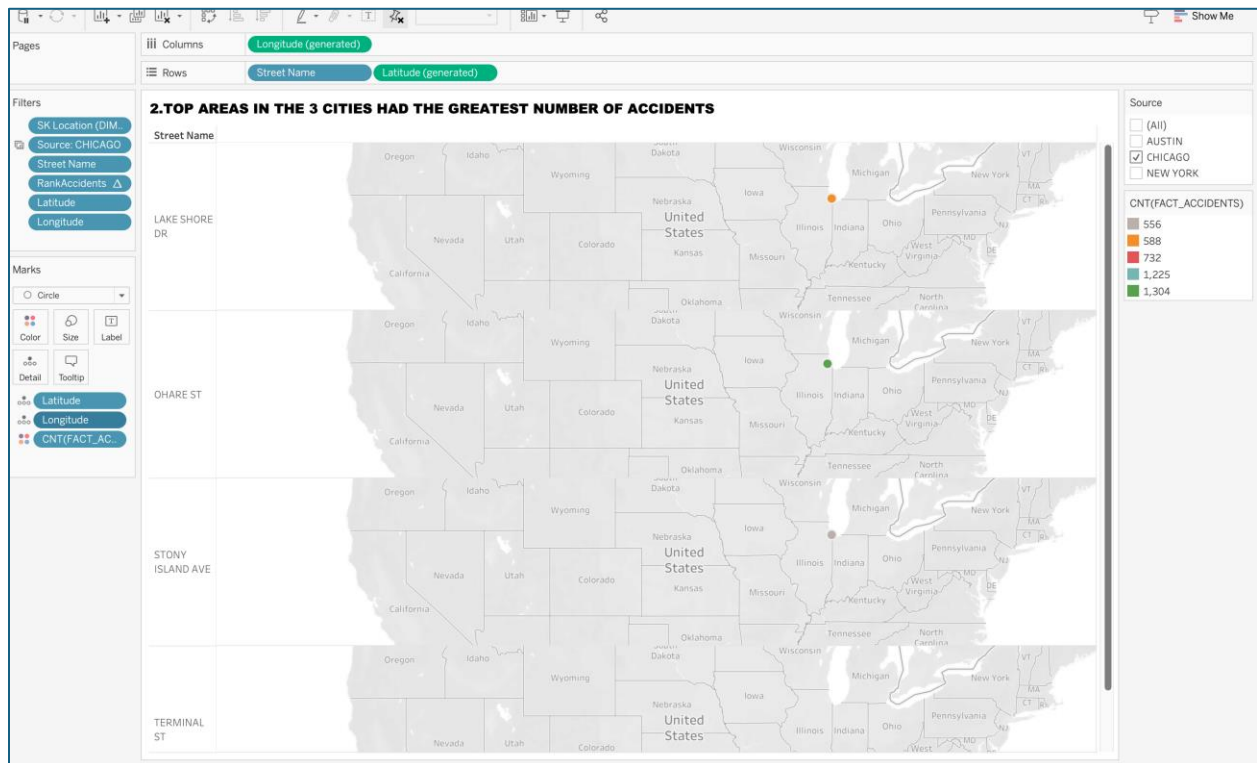
	sk_location	SOURCE	street_name	maxAccidents	SourceRank
1	104	AUSTIN	IH0035	491	1
2	1498	AUSTIN	IH0035	131	2
3	1153	AUSTIN	US0183	125	3
4	1164	AUSTIN	SL0001	125	3
5	4270	AUSTIN	SH0071	120	4
6	297	AUSTIN	SL0001	119	5
7	69432	CHICAGO	OHARE ST	1304	1
8	65672	CHICAGO	TERMINAL ST	1225	2
9	65669	CHICAGO	OHARE ST	732	3
10	73052	CHICAGO	LAKE SHORE DR	588	4
11	72262	CHICAGO	STONY ISLAND AVE	556	5
12	68497	NEW YORK	NA	56129	1
13	344519	NEW YORK	HORACE HARDING EXPRESSWAY	2665	2
14	342763	NEW YORK	FLATBUSH AVENUE	2081	3
15	342906	NEW YORK	VERRAZANO BRIDGE UPPER	1995	4
16	343514	NEW YORK	TRIBOROUGH BRIDGE	1863	5

Results grid

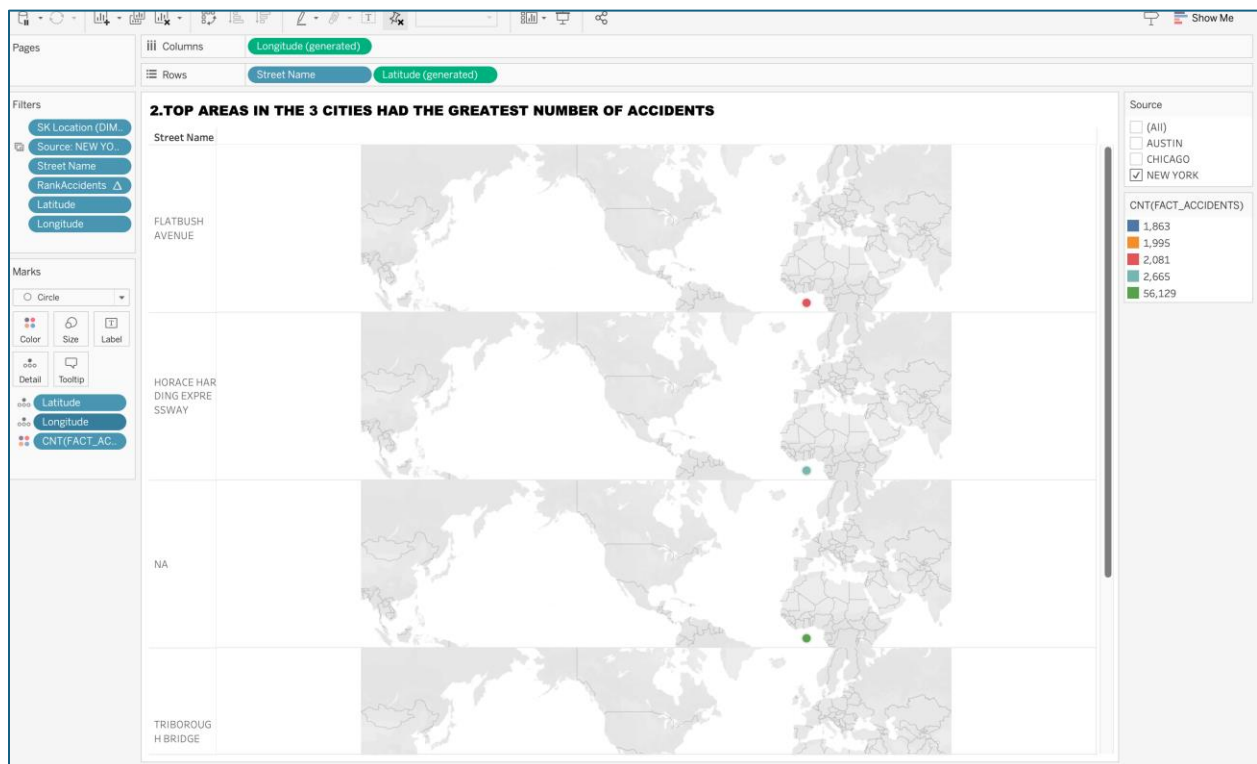
## Austin:



## CHICAGO:



## New York:



### 3.How many accidents resulted in just injuries?

```
select count(*) as NumAccidents, s.SOURCE
from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source=s.sk_source
where a.injuries_total>0 and a.total_Killed<=0
group by a.sk_source
ORDER BY count(*) DESC;
```

```
select count(*) as NumAccidents from FACT_ACCIDENTS
where injuries_total>0 and total_Killed<=0;
```

Users > pradnyashinde > Documents > DADABI > Final\_Project > P1\_P2\_Team5 > SQLQuery\_3.sql

Run Cancel Disconnect Change Database: FinalProjectMVC

```

32
33 --3.How many accidents resulted in just injuries?--> overall
34 select count(*) as NumAccidents from FACT_ACCIDENTS
35 where injuries_total>0 and total_Killed<=0;
36
37 --3.How many accidents resulted in just injuries? --> by city
38 select count(*) as NumAccidents, s.SOURCE
39 from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source=s.sk_source
40 where a.injuries_total>0 and a.total_Killed<=0
41 group by a.sk_source
42 ORDER BY count(*) DESC;

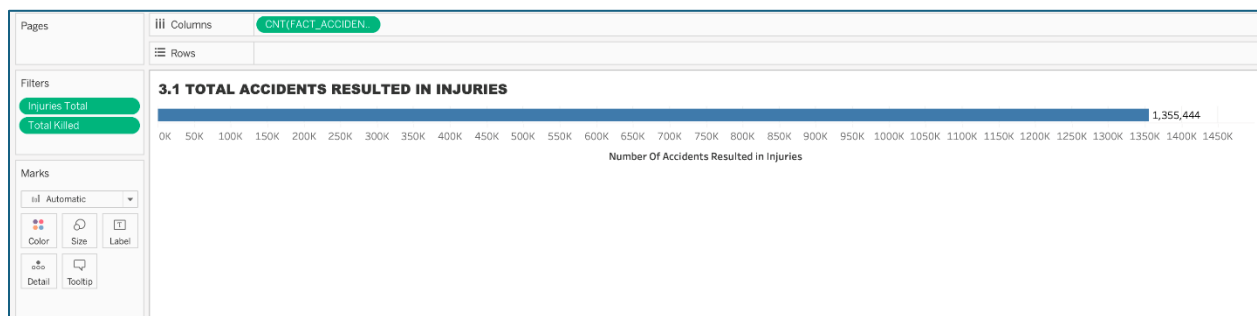
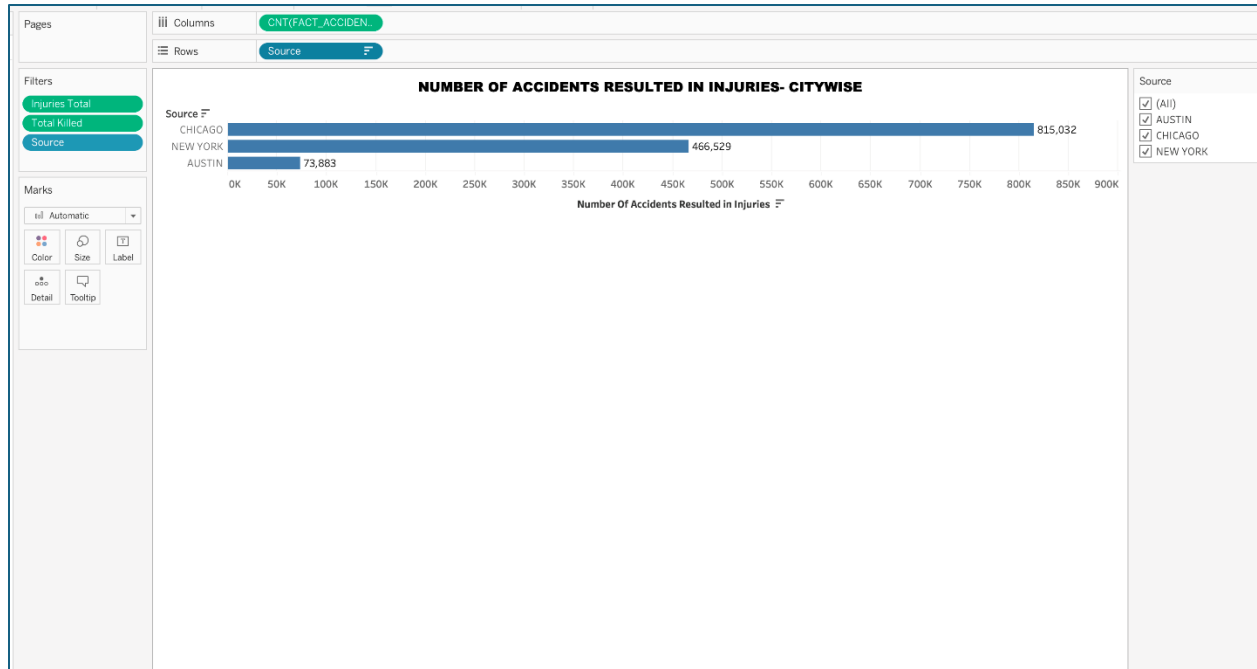
```

Results Messages

	NumAccidents
1	1355444

Results grid

	NumAccidents	SOURCE
1	815032	CHICAGO
2	466529	NEW YORK
3	73883	AUSTIN



#### 4. How often are pedestrians involved in accidents?

```
select count(*) as NumAccidents from FACT_ACCIDENTS
where is_pedestrian=1;
```

```
select count(*) as NumAccidents, s.SOURCE
from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source=s.sk_source
where a.is_pedestrian=1
group by a.sk_source;
```

Run Cancel Disconnect Change Database: FinalProjectMVC

```

1  --4.How often are pedestrians involved in accidents?
2  select count(*) as NumAccidents from FACT_ACCIDENTS
3  where is_pedestrian=1;
4
5  select count(*) as NumAccidents, s.SOURCE
6  from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source=s.sk_source
7  where a.is_pedestrian=1

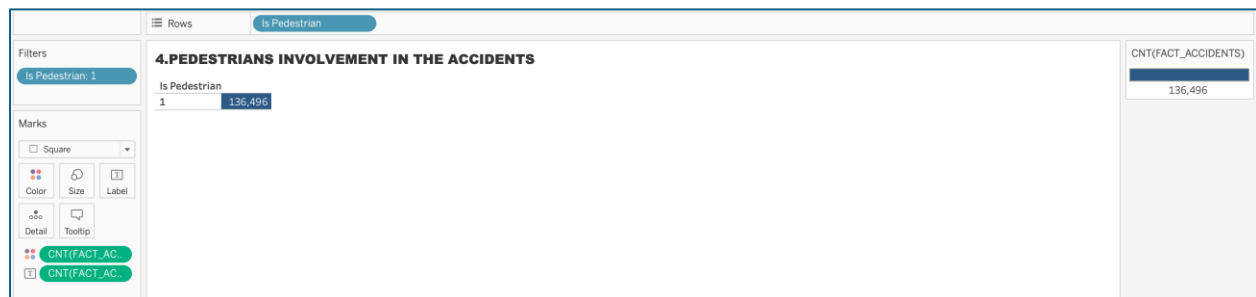
```

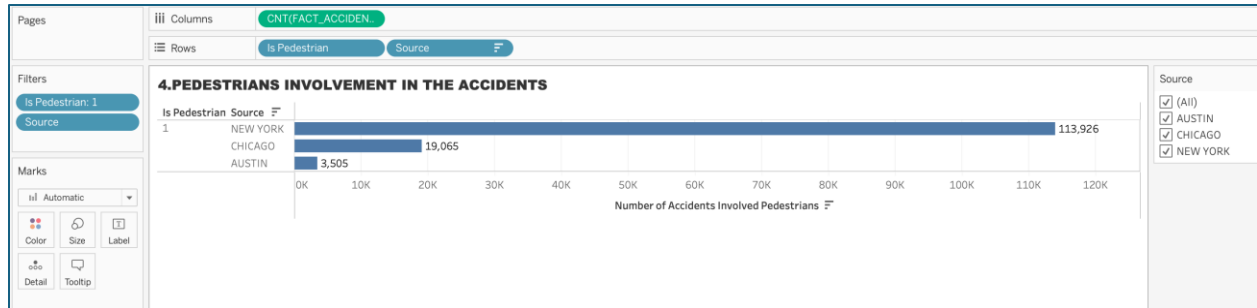
**Results** Messages

	NumAccidents
1	136496

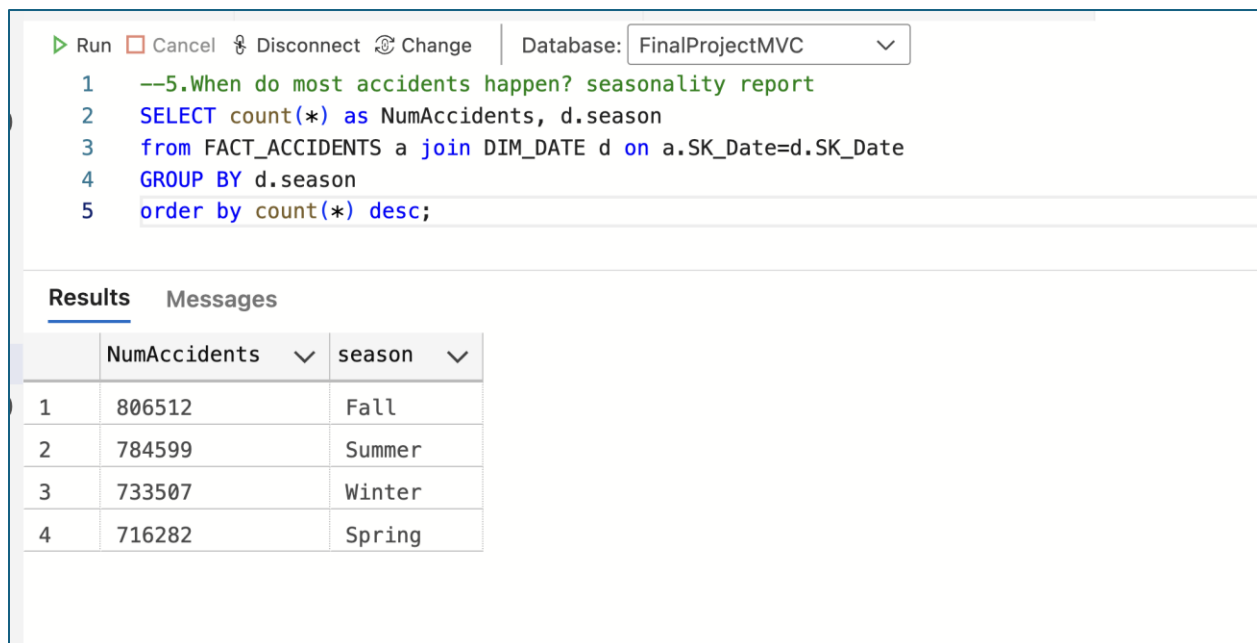
	NumAccidents	SOURCE
1	113926	NEW YORK
2	19065	CHICAGO
3	3505	AUSTIN



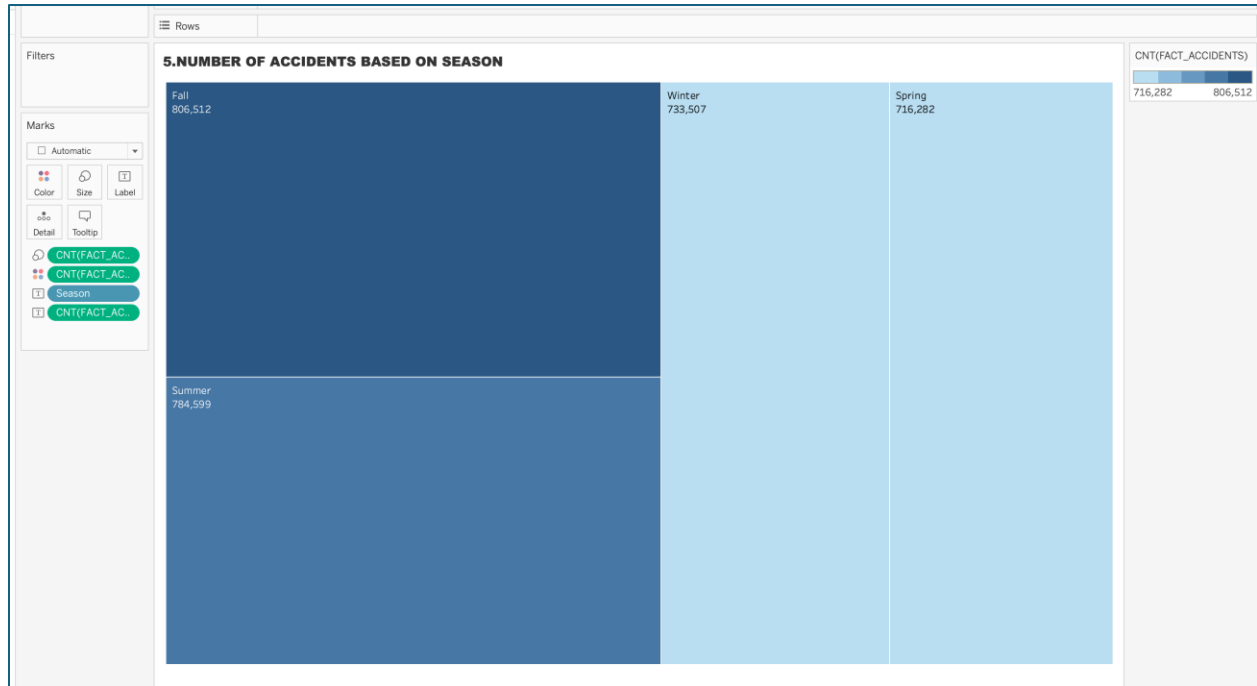


5. When do most accidents happen? seasonality report

```
SELECT count(*) as NumAccidents, d.season
from FACT_ACCIDENTS a join DIM_DATE d on a.SK_Date=d.SK_Date
GROUP BY d.season
order by count(*) desc;
```







6. How many motorists are injured or killed in accidents?

```
select sum(motorist_killed_count + motorist_injury_count) as NumMotorist
from FACT_ACCIDENTS
```

```
where motorist_killed_count > 0 or motorist_injury_count > 0;
```

```
-- -> by city
```

```
select sum(a.motorist_killed_count + a.motorist_injury_count) as NumMotorist, s.SOURCE
from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source = s.sk_source
where a.motorist_killed_count > 0 or a.motorist_injury_count > 0
group by a.sk_source;
```

Run Cancel Disconnect Change Database: FinalProjectMVC

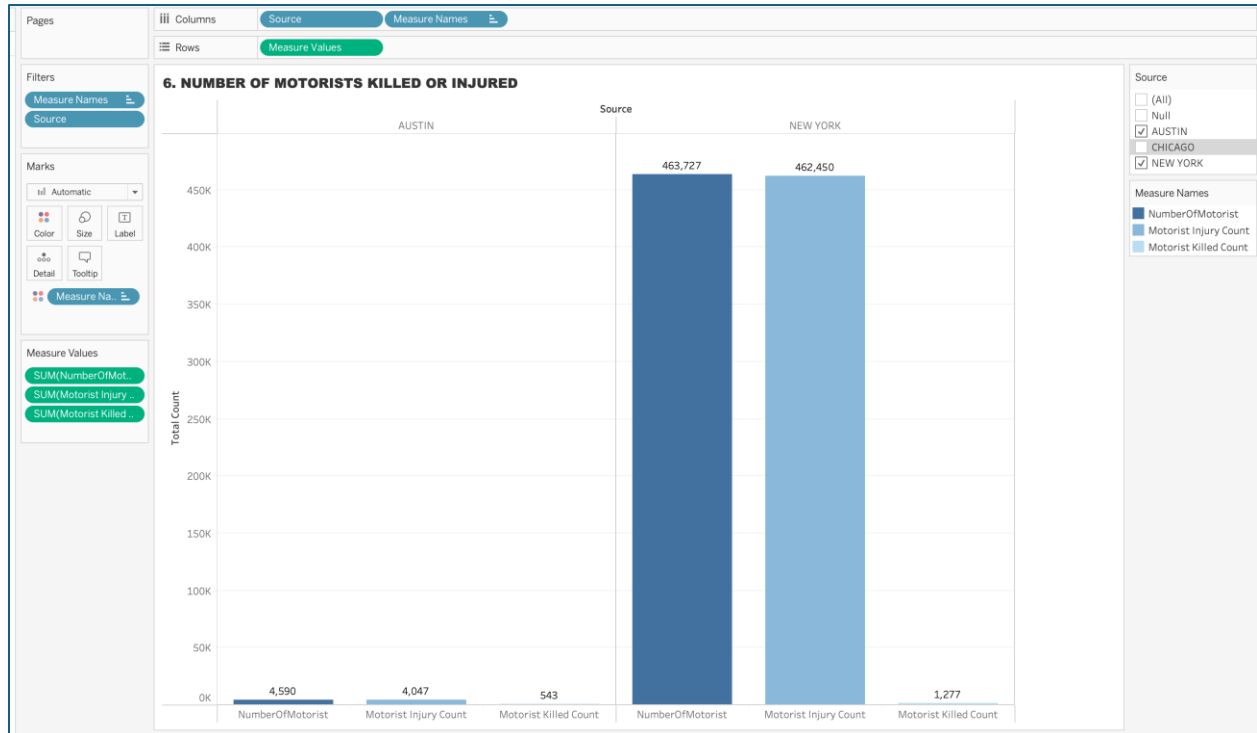
```
1  --6.How many motorists are injured or killed in accidents?
2  select sum(motorist_killed_count + motorist_injury_count) as NumMotorist
3  from FACT_ACCIDENTS
4  where motorist_killed_count >0 or motorist_injury_count> 0;
5  -- -> by city
6  select sum(a.motorist_killed_count + a.motorist_injury_count) as NumMotorist , s.SOURCE
7  from FACT_ACCIDENTS a join DIM_Source s on a.SK_Source=s.sk_source
8  where a.motorist_killed_count >0 or a.motorist_injury_count> 0
9  group by a.sk_source;
```

Results Messages

	NumMotorist	
1	468317	

	NumMotorist	SOURCE
1	463727	NEW YORK
2	4590	AUSTIN



7. Which top 5 areas in 3 cities have the most fatal number of accidents?

WITH RankedAccidents AS (

SELECT

a.sk\_location,

s.SOURCE,

l.street\_name,

SUM(a.total\_Killed) as totalKilled,

DENSE\_RANK() OVER (

PARTITION BY s.SOURCE

ORDER BY SUM(a.total\_Killed) DESC, COUNT(\*) DESC

) AS SourceRank

FROM FACT\_ACCIDENTS a

JOIN DIM\_Location l ON a.sk\_location = l.sk\_location

JOIN DIM\_Source s ON a.sk\_source = s.sk\_source

WHERE (l.latitude <> -1) and (l.longitude <> -1)

GROUP BY a.sk\_location, s.SOURCE, l.street\_name

)

SELECT

ra.sk\_location,

ra.SOURCE,

ra.street\_name,

ra.totalKilled,

ra.SourceRank

FROM RankedAccidents ra

WHERE ra.SourceRank <= 5  
ORDER BY ra.SOURCE, ra.totalKilled DESC, ra.SourceRank;

Run

Cancel

Disconnect

Change

Database:

FinalProjectMVC

1

WITH RankedAccidents AS (

2

SELECT

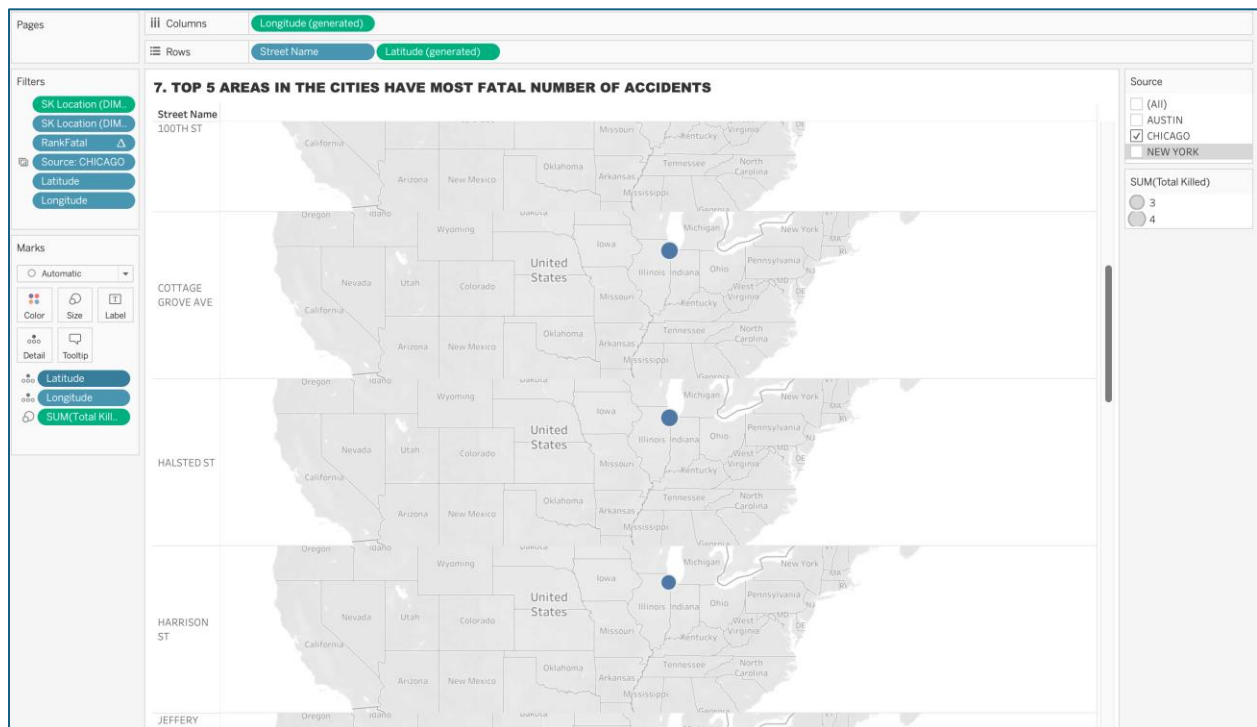
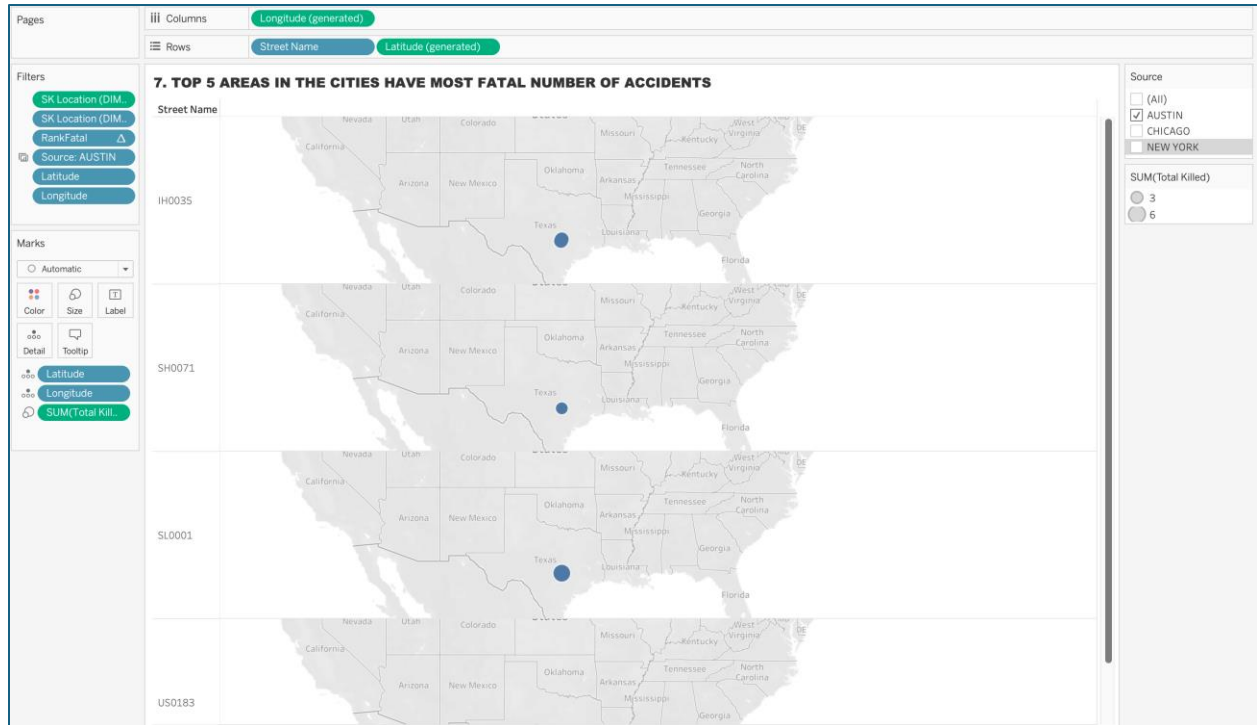
3

sk\_location

Results

Messages

	sk_location	SOURCE	street_name	totalKilled	SourceRank
1	15350	AUSTIN	SL0001	6	1
2	14959	AUSTIN	IH0035	4	2
3	62847	AUSTIN	IH0035	4	3
4	53522	AUSTIN	SH0071	3	4
5	13788	AUSTIN	IH0035	3	4
6	31849	AUSTIN	US0183	3	4
7	1321	AUSTIN	US0290	2	5
8	76329	CHICAGO	COTTAGE GROVE AVE	4	1
9	69218	CHICAGO	59TH ST	4	2
1...	96318	CHICAGO	HALSTED ST	4	3
1...	280186	CHICAGO	MADISON ST	4	4
1...	69432	CHICAGO	OHARE ST	3	5
1...	361273	NEW YORK	WEST STREET	8	1
1...	346445	NEW YORK	ROCKAWAY BOULEVA...	7	2
1...	390430	NEW YORK	94 AVENUE	5	3
1...	357266	NEW YORK	WOODHAVEN BOULEV...	4	4
1...	420929	NEW YORK	NORTHERN BOULEVA...	4	5



## 8. Time based analysis of accidents

Time of the day, day of the week, weekdays or weekends.

Run Cancel Disconnect Change Database: FinalProjectMVC

```

1  --8.Time based analysis of accidents
2  -----Time of the day, day of the week, weekdays or weekends.
3  SELECT count(*) as NumAccidents,t.time_period
4  from FACT_ACCIDENTS a join DIM_TIME t on a.SK_Time=t.SK_Time
5  GROUP BY t.time_period

```

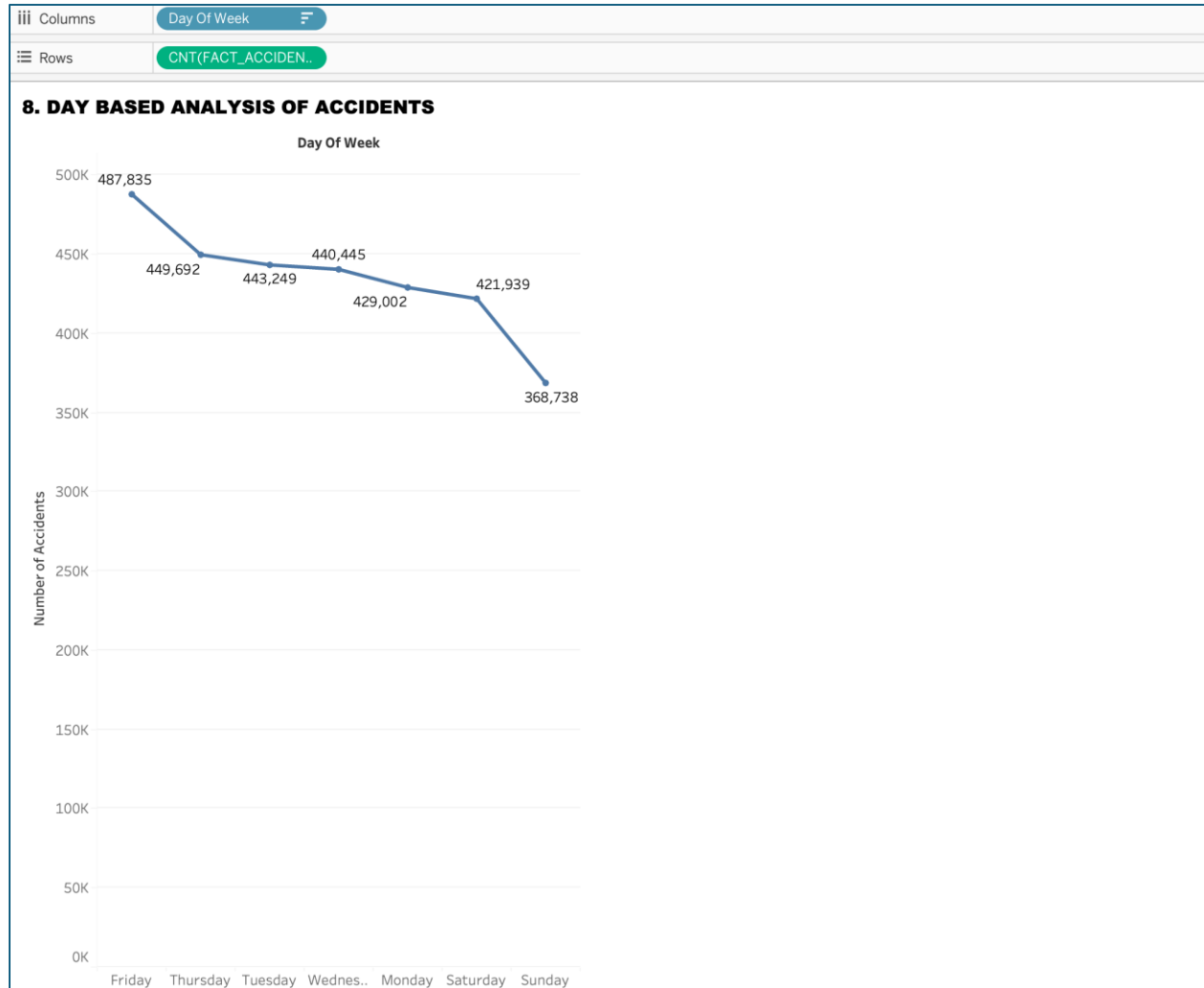
**Results** Messages

	NumAccidents	time_period
1	682211	Evening
2	624420	Afternoon
3	618354	Morning
4	346778	Early Afternoon
5	289473	Night
6	263852	Late Night
7	215812	Early Morning

Results grid

	NumAccidents	DayOfWeek
1	487835	Friday
2	449692	Thursday
3	443249	Tuesday
4	440445	Wednesday
5	429002	Monday
6	421939	Saturday
7	368738	Sunday









### 9. Fatality analysis - Are pedestrians killed more often than road users

Users > pradnyashinde > Documents > DADABI > Final\_Project > P1\_P2\_Team5 > SQLQuery\_3.sql

Run Cancel Disconnect Change Database: FinalProjectMVC

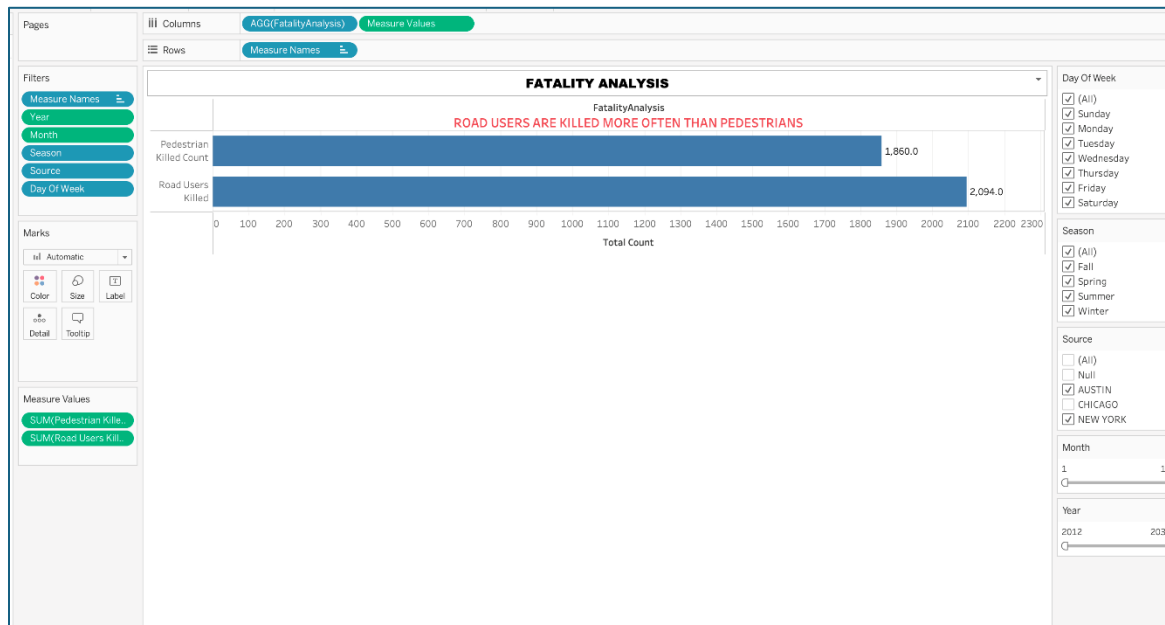
```

114
115 --9.Fatality analysis
116 -----Are pedestrians killed more often than road users?
117 SELECT
118     (SELECT SUM(PEDESTRIAN_KILLED_COUNT) FROM FACT_ACCIDENTS) AS TotalPedestrianFatalities,
119     (SELECT SUM(road_users_killed) FROM FACT_ACCIDENTS) AS TotalMotoristFatalities,
120     CASE
121         WHEN (SELECT SUM(PEDESTRIAN_KILLED_COUNT) FROM FACT_ACCIDENTS) >
122              (SELECT SUM(road_users_killed) FROM FACT_ACCIDENTS)
123         THEN 'Pedestrians killed more often'
124         WHEN (SELECT SUM(PEDESTRIAN_KILLED_COUNT) FROM FACT_ACCIDENTS) <
125              (SELECT SUM(road_users_killed) FROM FACT_ACCIDENTS)
126         THEN 'Road Users killed more often'
127         ELSE 'Pedestrians and Road Users killed equally often'
128     END AS FatalityComparison
129

```

Results Messages

	TotalPedestrianFatalities	TotalMotoristFatalities	FatalityComparison
1	1860	2094	Road Users killed more often



10. What are the most common factors involved in accidents?

SELECT count(\*) as

NumAccidents, c.contributing\_factor\_code, c.contributing\_factor\_description

from FACT\_CONTRIBUTION f join Dim\_Contribution c on

f.sk\_contribution=c.sk\_contribution

GROUP BY f.sk\_contribution

order by count(\*) desc

limit 10;

Run Cancel Disconnect Change Database: FinalProjectMVC

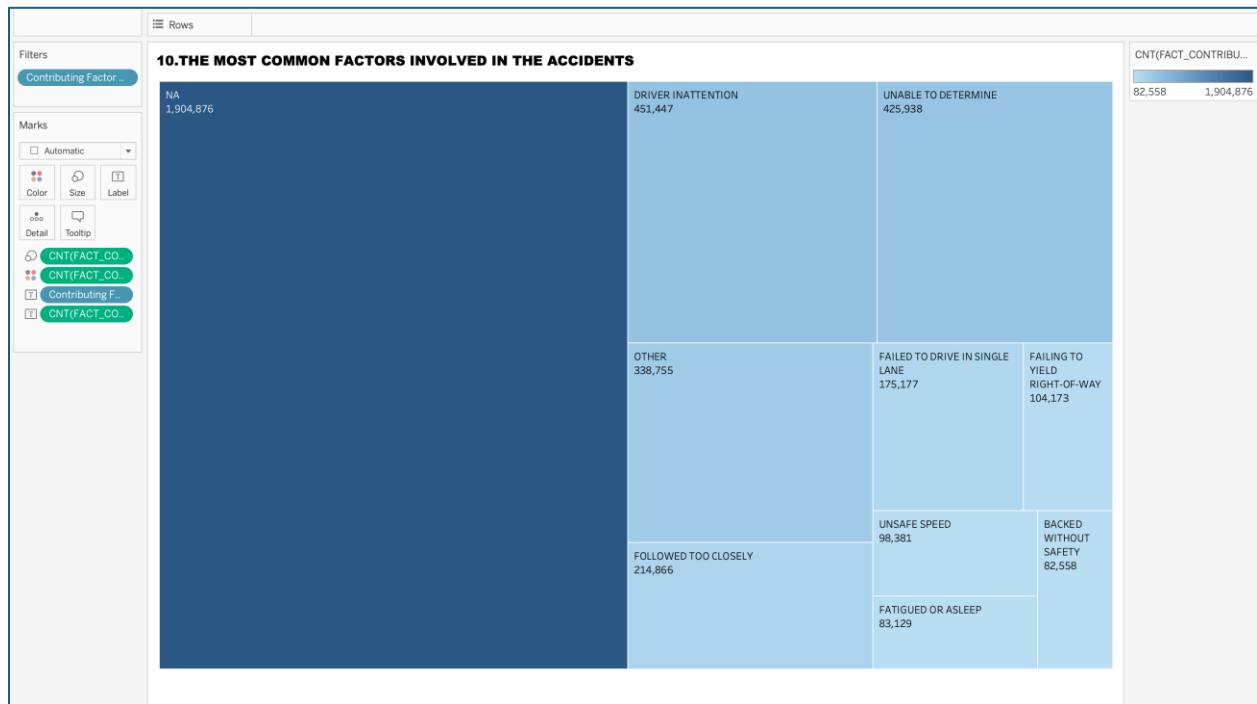
```

1  --10. What are the most common factors involved in accidents?
2  SELECT count(*) as NumAccidents, c.contributing_factor_code, c.contributing_factor_description
3  from FACT_CONTRIBUTION f join Dim_Contribution c on f.sk_contribution=c.sk_contribution
4  GROUP BY f.sk_contribution
5  order by count(*) desc
6  limit 10;

```

**Results** Messages

	NumAccidents	contributing_factor_code	contributing_factor_description
1	1904876	-1	NA
2	451447	20	DRIVER INATTENTION
3	425938	132	UNABLE TO DETERMINE
4	338755	101	OTHER
5	214866	44	FOLLOWED TOO CLOSELY
6	175177	23	FAILED TO DRIVE IN SINGLE LANE
7	104173	126	FAILING TO YIELD RIGHT-OF-WAY
8	98381	60	UNSAFE SPEED
9	83129	40	FATIGUED OR ASLEEP
10	82558	3	BACKED WITHOUT SAFETY



11. Store vehicle type/vehicles involved in accidents at its least grainality

```
SELECT count(*) as NumAccidents, v.VEHICLE_CODE, v.VEHICLE_TYPE
from FACT_VEHICLE f join DIM_Vehicle_Type v on
f.SK_VEHICLE_TYPE=v.SK_VEHICLE_TYPE
GROUP BY f.SK_VEHICLE_TYPE
order by count(*) desc
limit 10;
```

Run Cancel Disconnect Change Database: FinalProjectMVC

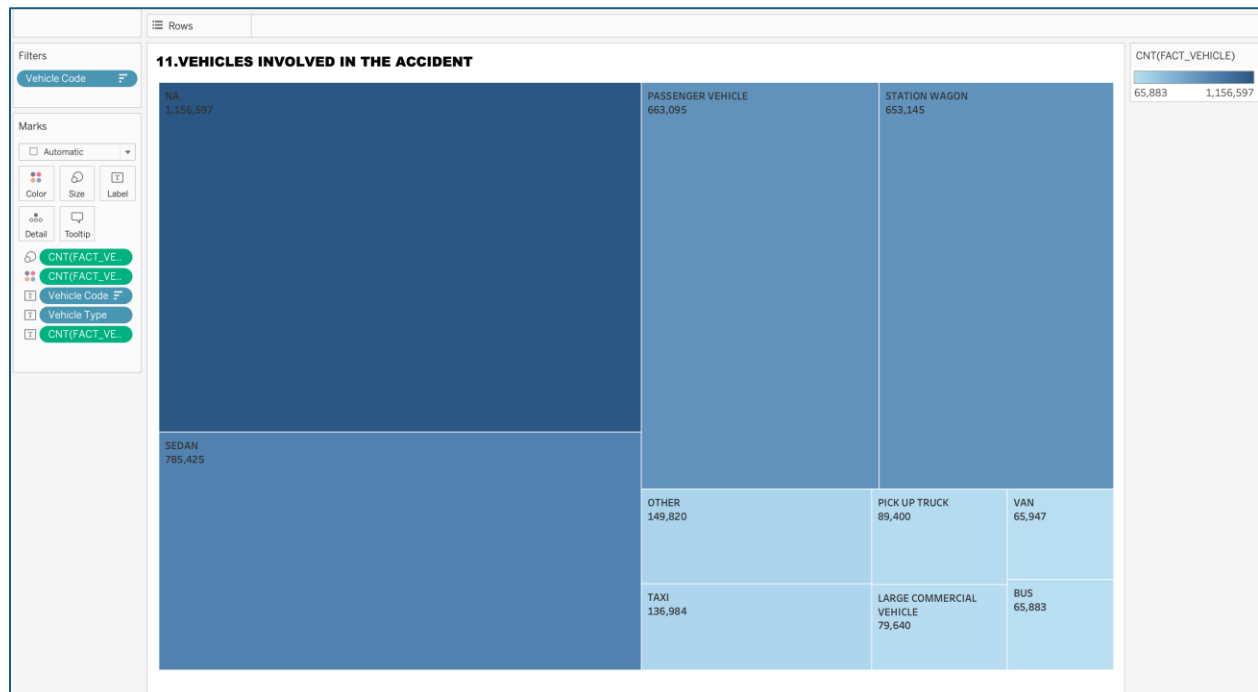
```

1  --11.Store vehicle type/vehicles involved in accidents at its least graunality
2  SELECT count(*) as NumAccidents,v.VEHICLE_CODE,v.VEHICLE_TYPE
3  from FACT_VEHICLE f join DIM_Vehicle_Type v on f.SK_VEHICLE_TYPE=v.SK_VEHICLE_TYPE
4  GROUP BY f.SK_VEHICLE_TYPE
5  order by count(*) desc
6  limit 10;

```

**Results** Messages

	NumAccidents	VEHICLE_CODE	VEHICLE_TYPE
1	1156597	219	NA
2	785425	168	SEDAN
3	663095	144	PASSENGER VEHICLE
4	653145	184	STATION WAGON
5	149820	142	OTHER
6	136984	188	TAXI
7	89400	147	PICK UP TRUCK
8	79640	109	LARGE COMMERCIAL VEHICLE
9	65947	205	VAN
10	65883	33	BUS



12. Using Austin and NYC datasets, Create a visualization to show number of incidents that involved more than 2 vehicles. Show this data as a comparison between these 2 cities.

```
SELECT count(*) as NumAccidents,s.SOURCE
from FACT_VECHICLE v join FACT_ACCIDENTS a on
v.sk_fact_accidents=a.sk_fact_accidents
join DIM_Source s on a.SK_Source=s.sk_source
where v.units_involved>2
group by a.sk_source;

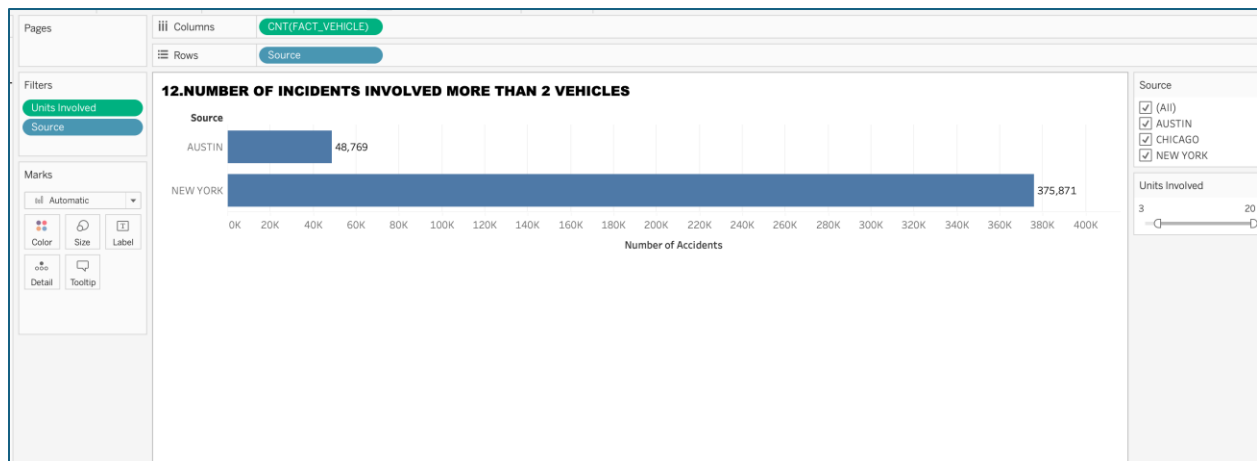
SELECT
count(*) as NumAccidents,
s.SOURCE
FROM FACT_ACCIDENTS a
JOIN FACT_VECHICLE v ON v.sk_fact_accidents = a.sk_fact_accidents
JOIN DIM_Source s ON a.SK_Source = s.sk_source
WHERE v.units_involved > 2
GROUP BY a.sk_source, s.SOURCE;
```

Run Cancel Disconnect Change Database: FinalProjectMVC

```
1 --12.Using Austin and NYC datasets, Create a visualization to show number of incidents that involved more than 2 vehicles.
2 SELECT count(*) as NumAccidents,s.SOURCE
3 from FACT_VECHICLE v join FACT_ACCIDENTS a on v.sk_fact_accidents=a.sk_fact_accidents
4 join DIM_Source s on a.SK_Source=s.sk_source
5 where v.units_involved>2
6 group by a.sk_source;
7
```

**Results** Messages

	NumAccidents	SOURCE
1	48769	AUSTIN
2	375871	NEW YORK



## POWER BI VISUALIZATIONS

1.

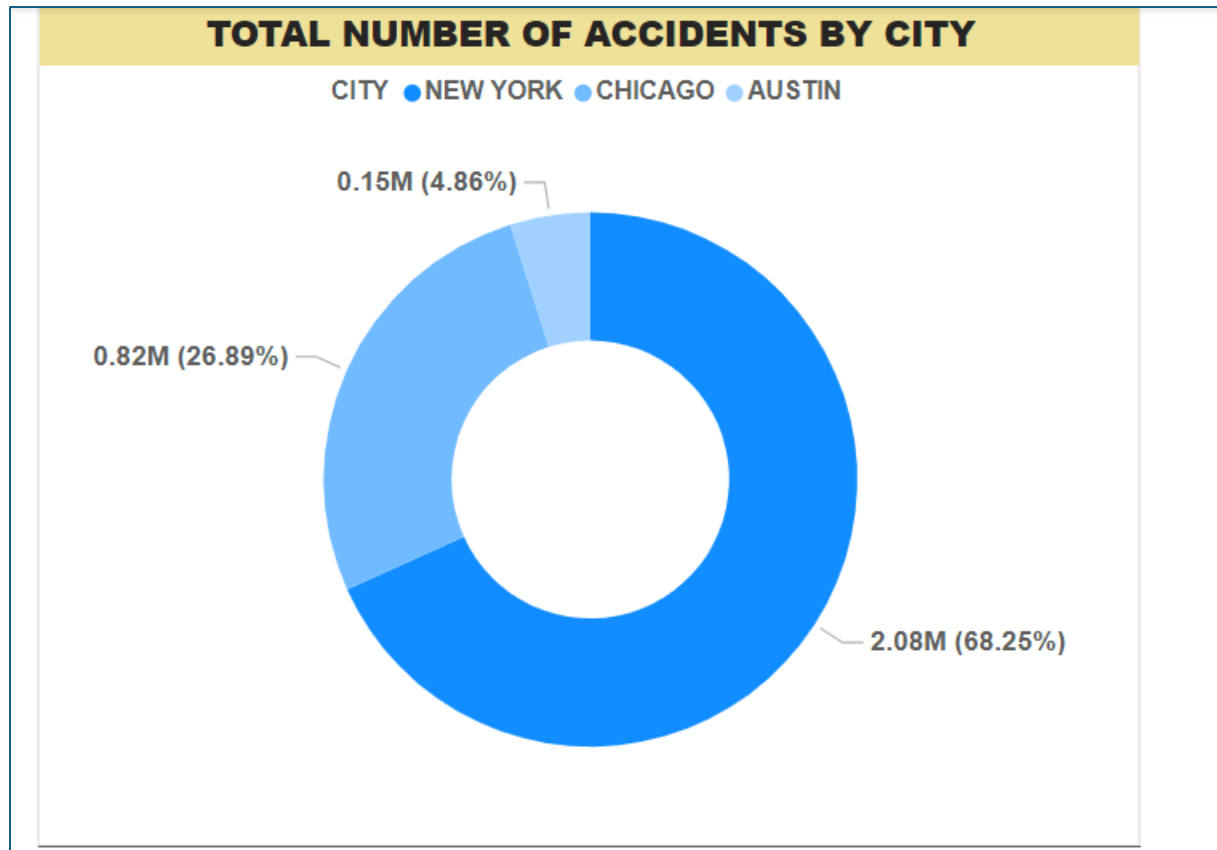
```
--Q1. How many accidents occurred in NYC, Austin and Chicago
```

```
SELECT D.SOURCE, COUNT(SK_FACT_ACCIDENTS) AS TOTAL_NO_OF_ACCIDENTS FROM FACT_ACCIDENTS F
JOIN
  DIM_Source D ON D.SK_Source=F.SK_Source
GROUP BY
  D.SOURCE
```

110 %

Results Messages

	SOURCE	TOTAL_NO_OF_ACCIDENTS
1	AUSTIN	147750
2	CHICAGO	817723
3	NEW YORK	2075427



2.

```

SELECT TOP 3
    a.sk_location,
    s.source,
    COUNT(*) AS maxAccidents,
    l.street_name
FROM FACT_ACCIDENTS a
JOIN DIM_Location l ON a.SK_Location = l.sk_location
JOIN DIM_Source s ON a.SK_Source = s.SK_Source
GROUP BY a.sk_location, s.source, l.street_name
ORDER BY COUNT(*) DESC;

```

110 %

Results Messages

	sk_location	source	maxAccidents	street_name
1	303441	NEW YORK	56129	NA
2	398506	NEW YORK	2665	HORACE HARDING EXPRESSWAY
3	399251	NEW YORK	2081	FLATBUSH AVENUE

TOP 3 AREAS WITH HIGHEST ACCIDENT COUNTS					
Count of Accidents	Latitude	Longitude	Street_Name	City	
56129	-1.00	-1.00	NA	NEW YORK	
2665	-1.00	-1.00	HORACE HARDING EXPRESSWAY	NEW YORK	
2081	-1.00	-1.00	FLATBUSH AVENUE	NEW YORK	
1	-1.00	-1.00	NA	CHICAGO	
60876					

--Q2. Which areas in the 3 cities had the greatest number of accidents

--top areas within each city

```
WITH RankedLocations AS (
    SELECT
        a.sk_location,
        s.source,
        l.street_name,
        l.latitude,
        l.longitude,
        COUNT(*) AS maxAccidents,
        RANK() OVER (PARTITION BY a.sk_source ORDER BY COUNT(*) DESC) AS Rank
    FROM FACT_ACCIDENTS a
    JOIN DIM_Location l ON a.SK_Location = l.sk_location
    JOIN DIM_Source s ON a.SK_Source = s.SK_Source
    WHERE l.latitude != -1 AND l.longitude != -1
    GROUP BY a.sk_source, s.source, a.sk_location, l.street_name, l.latitude, l.longitude
)
SELECT
    sk_location,
    source,
    street_name,
    latitude,
    longitude,
    maxAccidents
FROM RankedLocations
WHERE Rank <= 3
ORDER BY source, maxAccidents DESC;
```

110 %

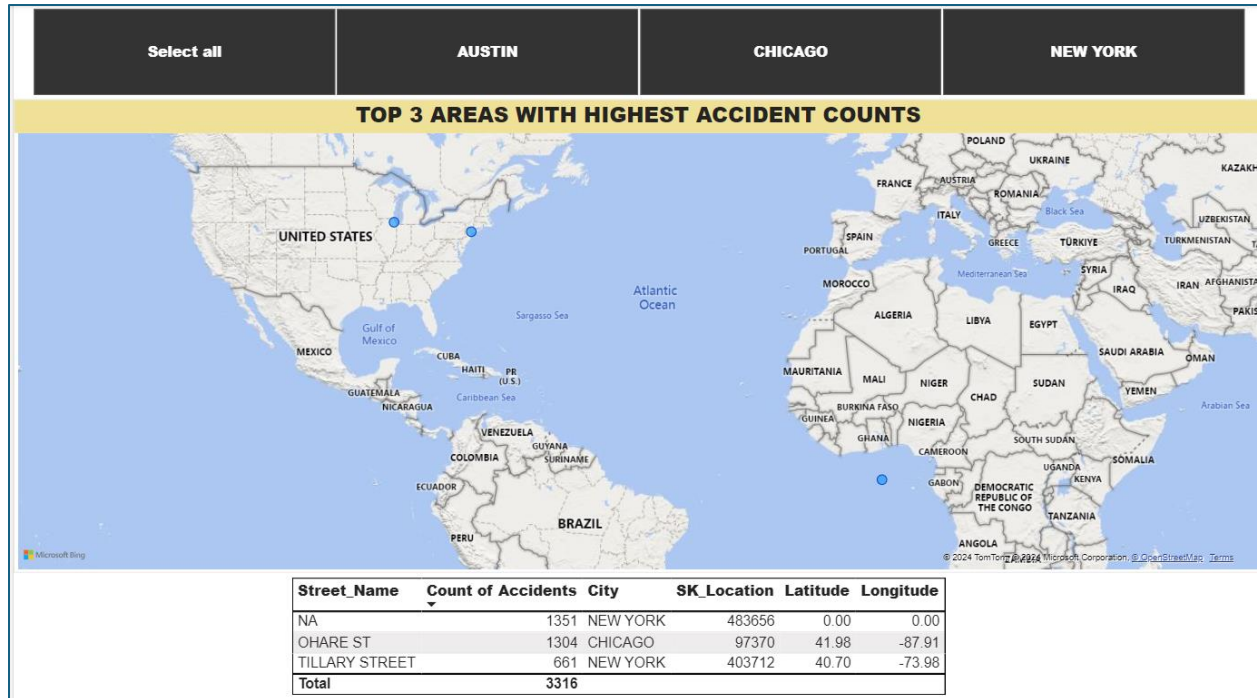
Results Messages

	sk_location	source	street_name	latitude	longitude	maxAccidents
1	1219	AUSTIN	SL0001	30.24915	-97.8053	111
2	4413	AUSTIN	SH0071	30.20236	-97.63786	107
3	2032	AUSTIN	US0183	30.32557	-97.67332	97
4	97370	CHICAGO	OHARE ST	41.9762	-87.90531	1304
5	98298	CHICAGO	LAKE SHORE DR	41.79142	-87.58015	578
6	100230	CHICAGO	STONY ISLAND AVE	41.75146	-87.58598	556
7	483656	NEW YORK	NA	0	0	1351
8	403712	NEW YORK	TILLARY STREET	40.69603	-73.98453	661
9	404099	NEW YORK	FLATBUSH AVENUE EXTENSION	40.69603	-73.98453	568

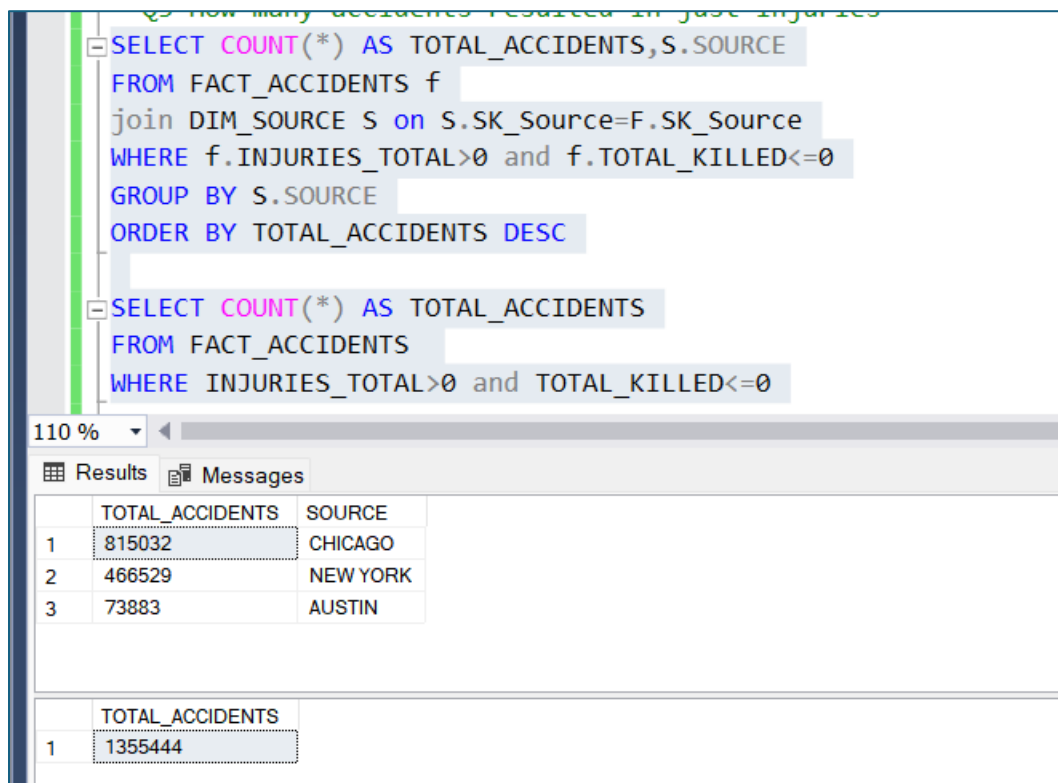
Query executed successfully.

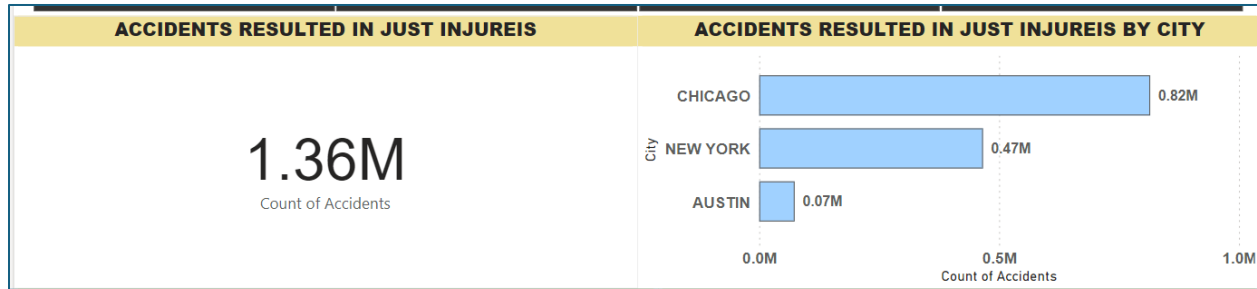
VAISHVEER (16.0 RTM)



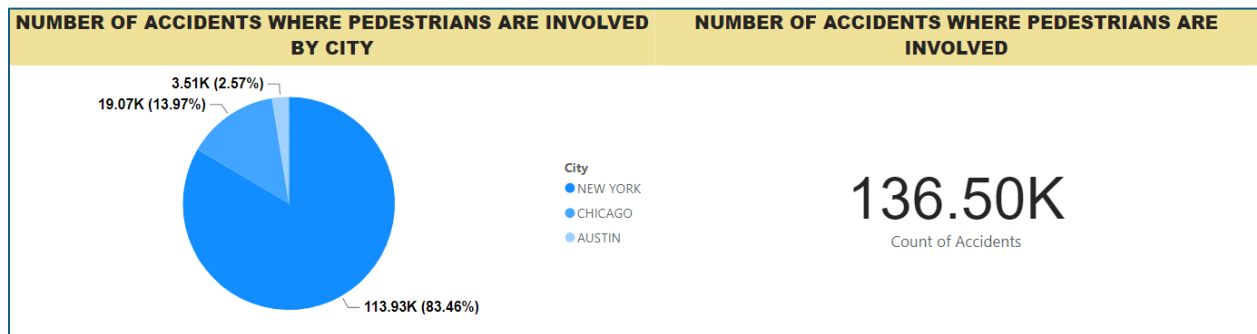
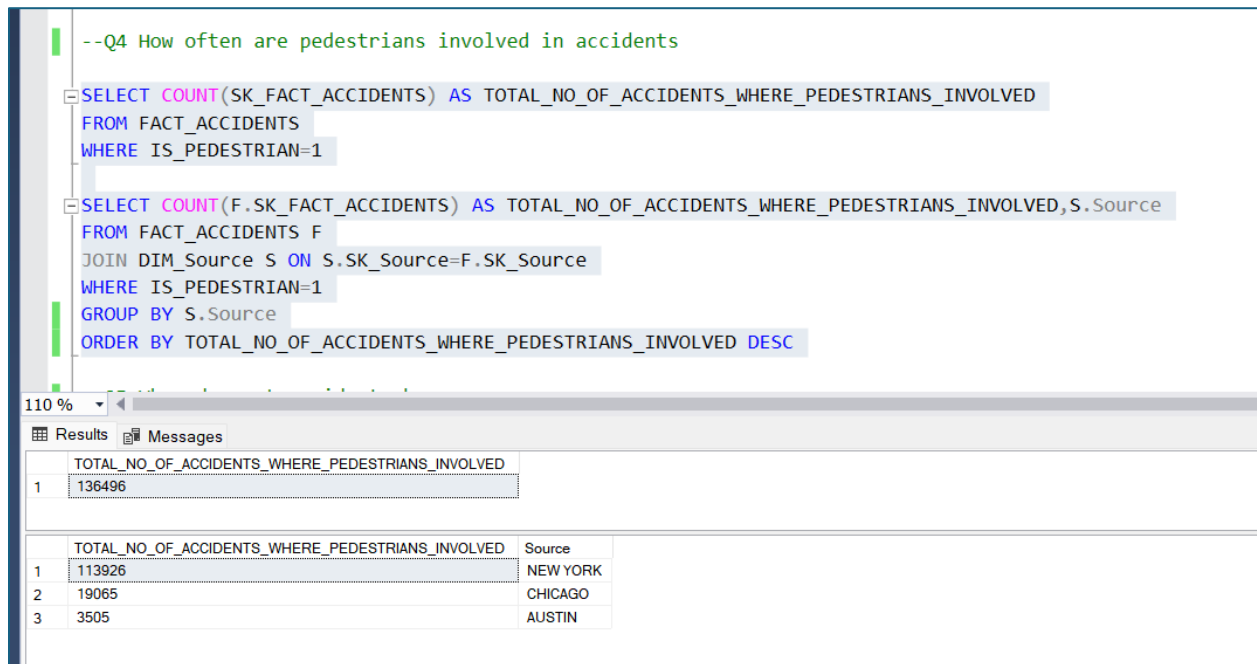


3.





4.



5.

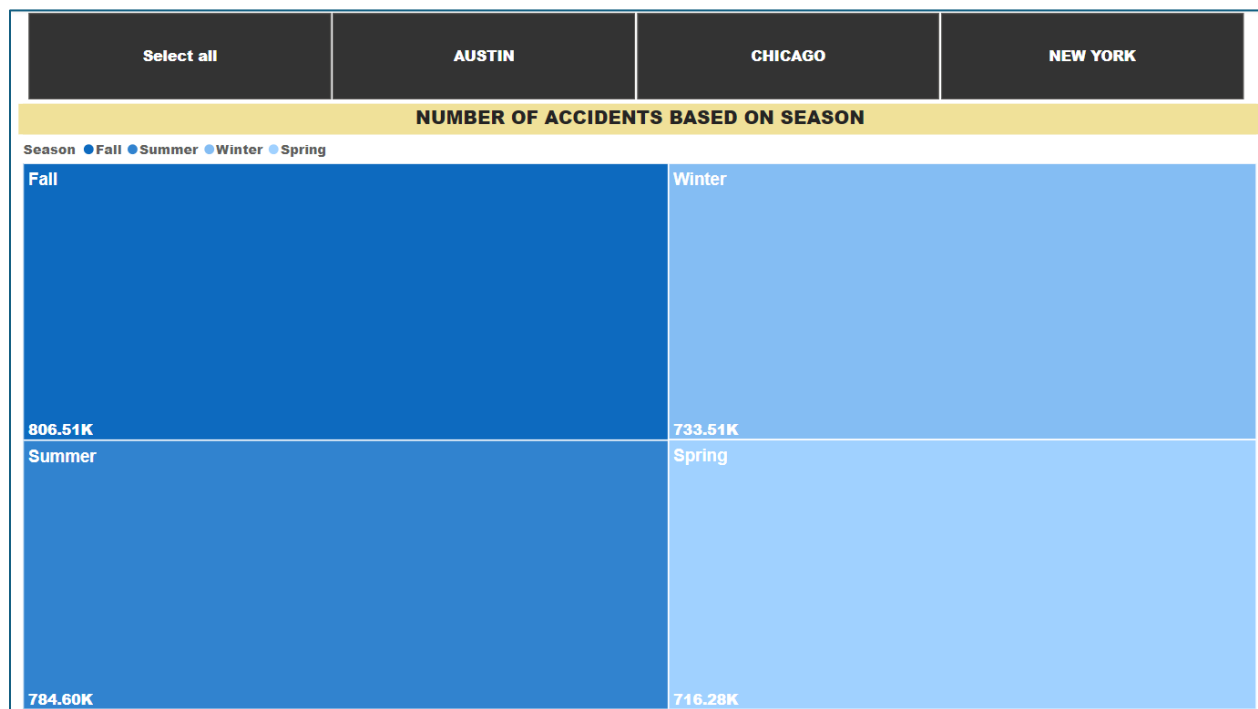
```
--Q5 When do most accidents happen
```

```
SELECT COUNT(F.SK_FACT_ACCIDENTS) AS TOTAL_NO_OF_ACCIDENTS,D.Season
FROM FACT_ACCIDENTS F
JOIN DIM_DATE D ON D.SK_Date=F.SK_Date
GROUP BY D.Season
ORDER BY TOTAL_NO_OF_ACCIDENTS DESC
```

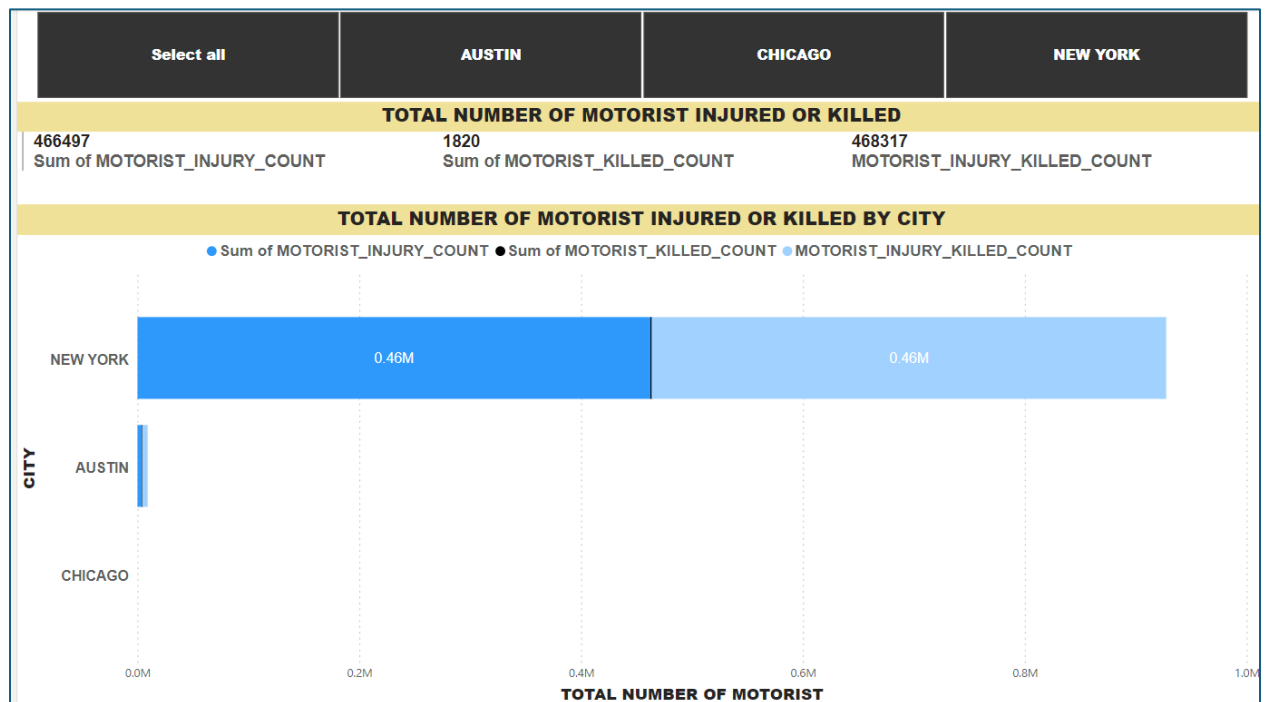
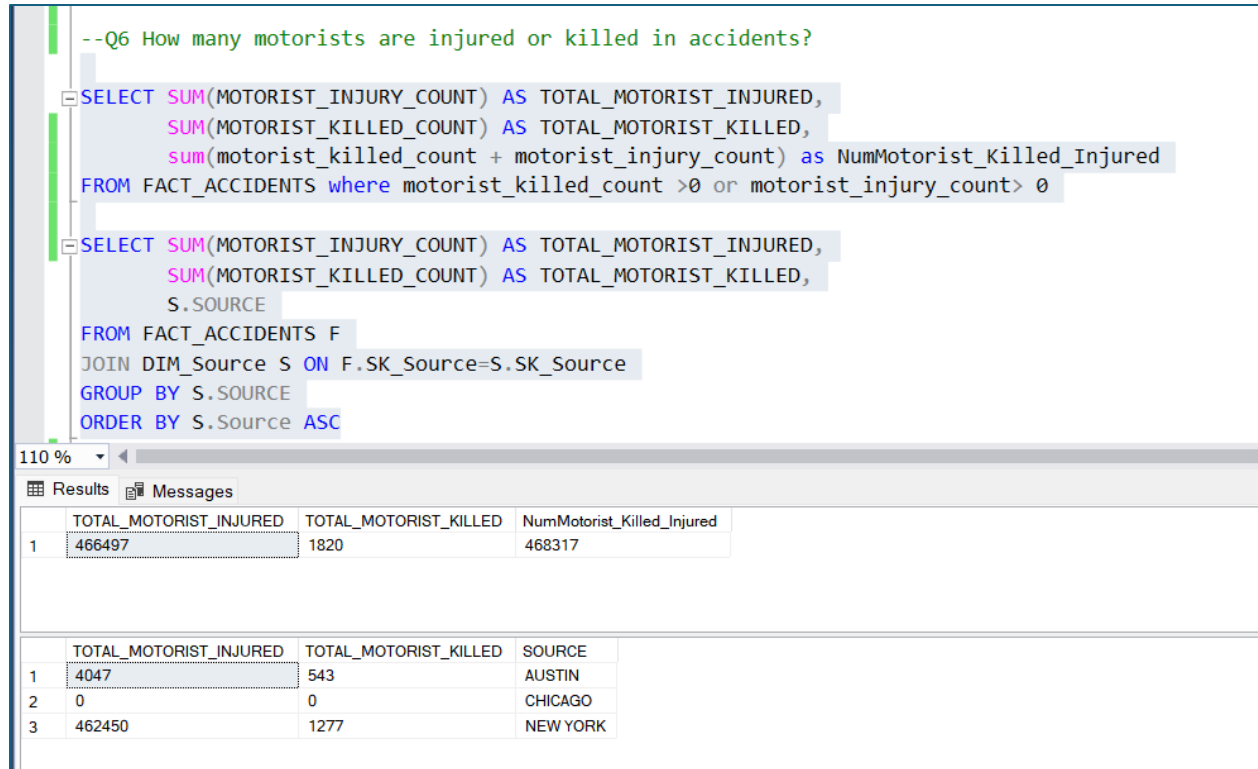
110 %

Results Messages

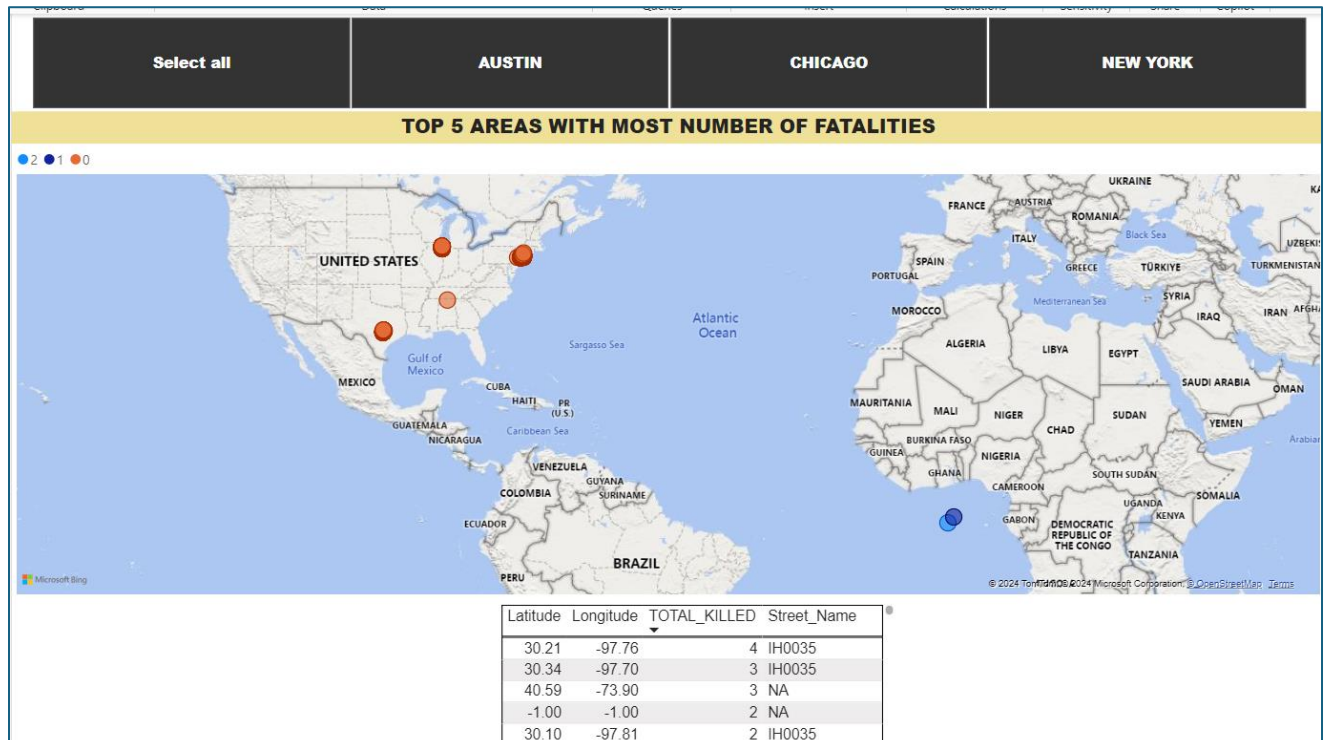
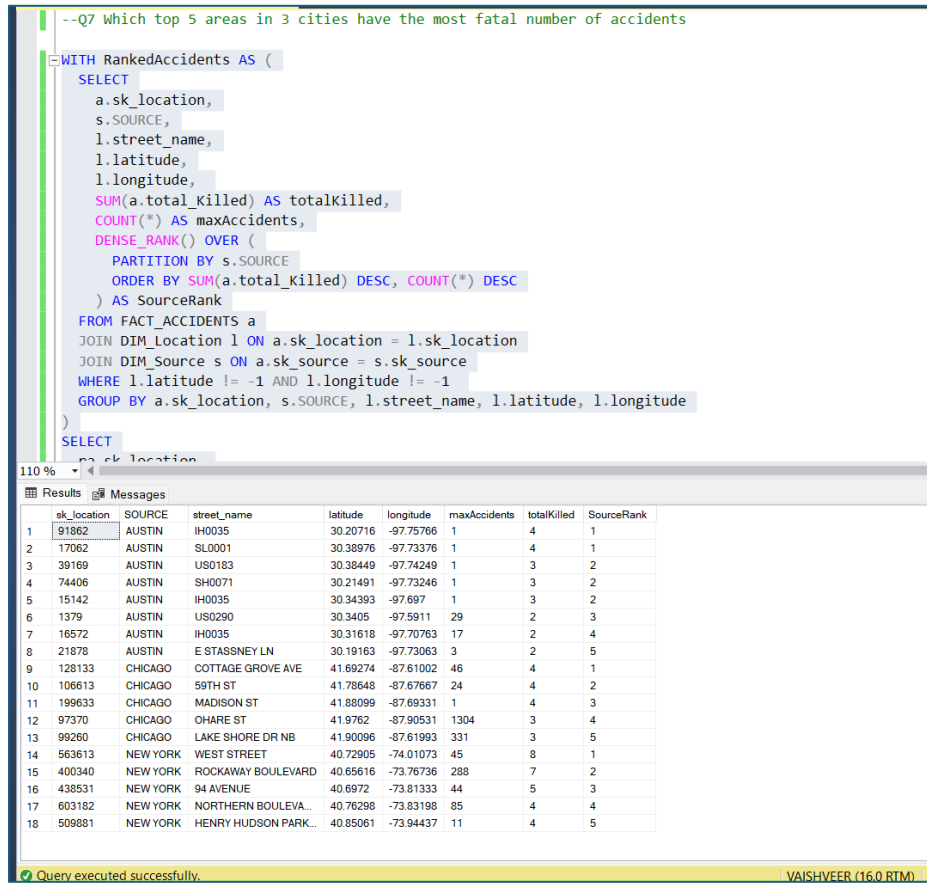
	TOTAL_NO_OF_ACCIDENTS	Season
1	806512	Fall
2	784599	Summer
3	733507	Winter
4	716282	Spring



6.



7.



8.

```
--Q8 Time based analysis of accidents: Time of the day, day of the week, weekdays or weekends.
SELECT count(*) as NumAccidents,t.time_period
from FACT_ACCIDENTS a
join DIM_TIME t on a.SK_Time=t.SK_Time
GROUP BY t.time_period;

SELECT count(*) as NumAccidents,d.Day_Of_The_Week
from FACT_ACCIDENTS a join DIM_DATE d on a.SK_Date=d.SK_Date
GROUP BY d.Day_Of_The_Week
ORDER BY count(*) desc;

SELECT count(*) as NumAccidents,d.WeekDays_weekends
from FACT_ACCIDENTS a join DIM_DATE d on a.SK_Date=d.SK_Date
GROUP BY d.WeekDays_weekends
ORDER BY count(*) desc;

SELECT count(*) as NumAccidents,T.Hour_24
from FACT_ACCIDENTS a join DIM_TIME T on a.SK_Time=T.SK_Time
GROUP BY T.Hour_24
ORDER BY count(*) desc;
```

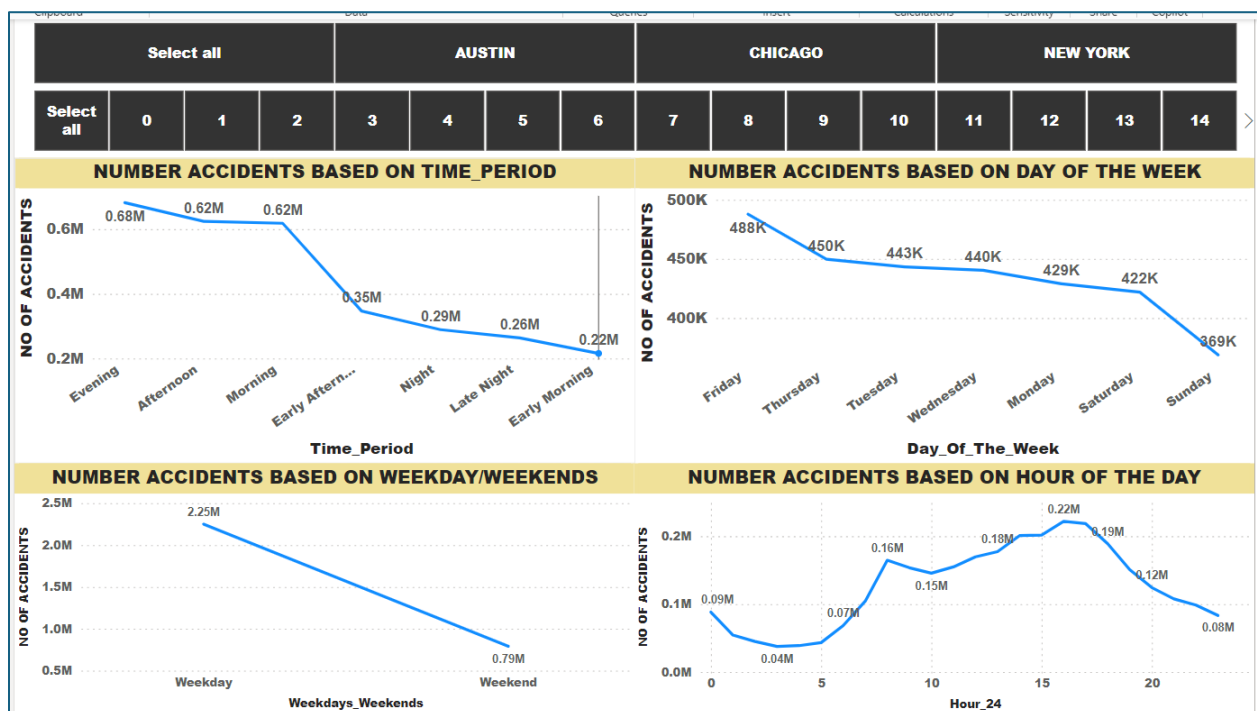
110 %

Results Messages

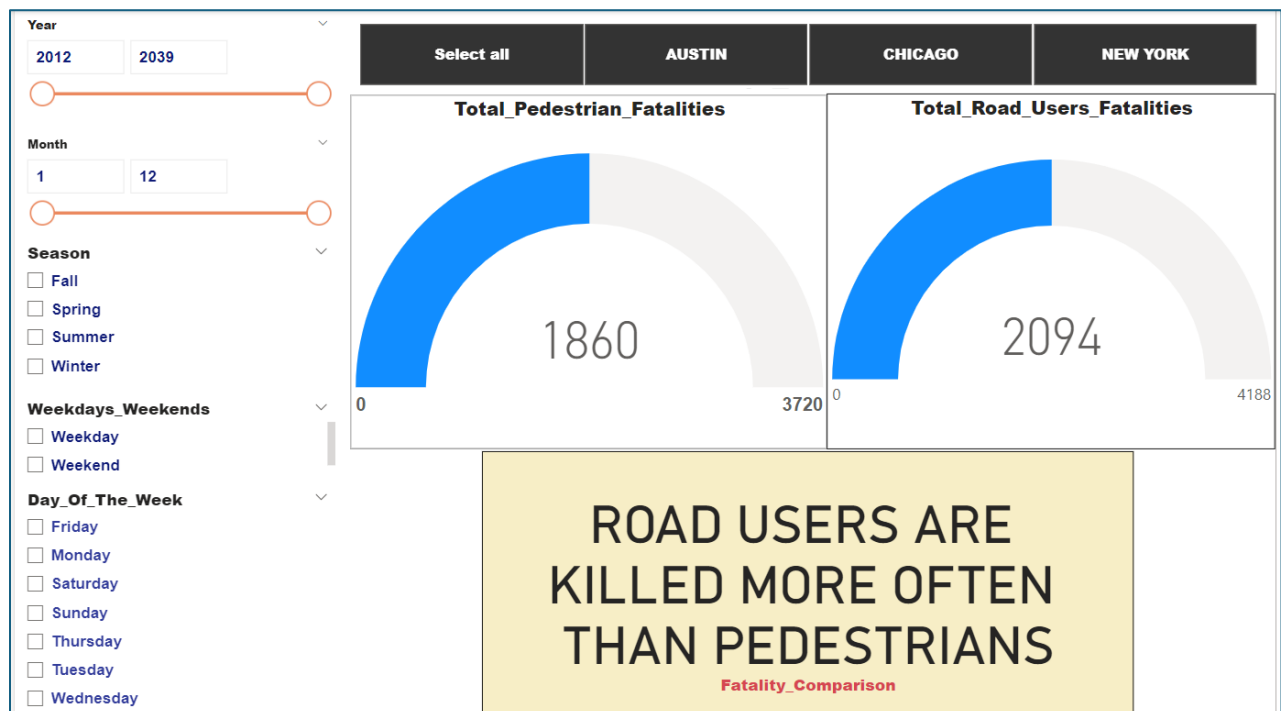
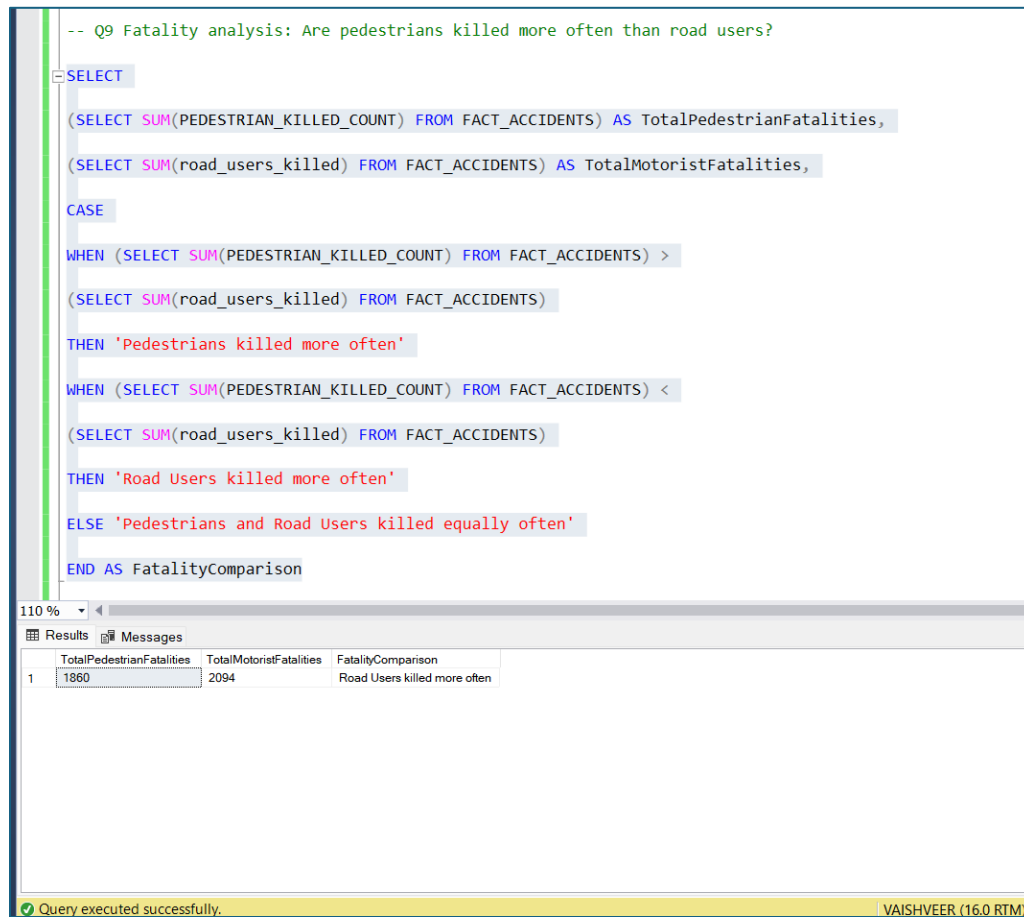
	NumAccidents	time_period
1	624420	Afternoon
2	346778	Early Afternoon
3	215812	Early Morning
4	682211	Evening
5	263852	Late Night
6	618354	Morning
7	289473	Night

	NumAccidents	Day_Of_The_Week
1	487835	Friday
2	449692	Thursday
3	443249	Tuesday
4	440445	Wednesday
5	429002	Monday
6	421939	Saturday
7	368738	Sunday

	NumAccidents	WeekDays_weekends
1	2250223	Weekday
2	790677	Weekend



9.



10.

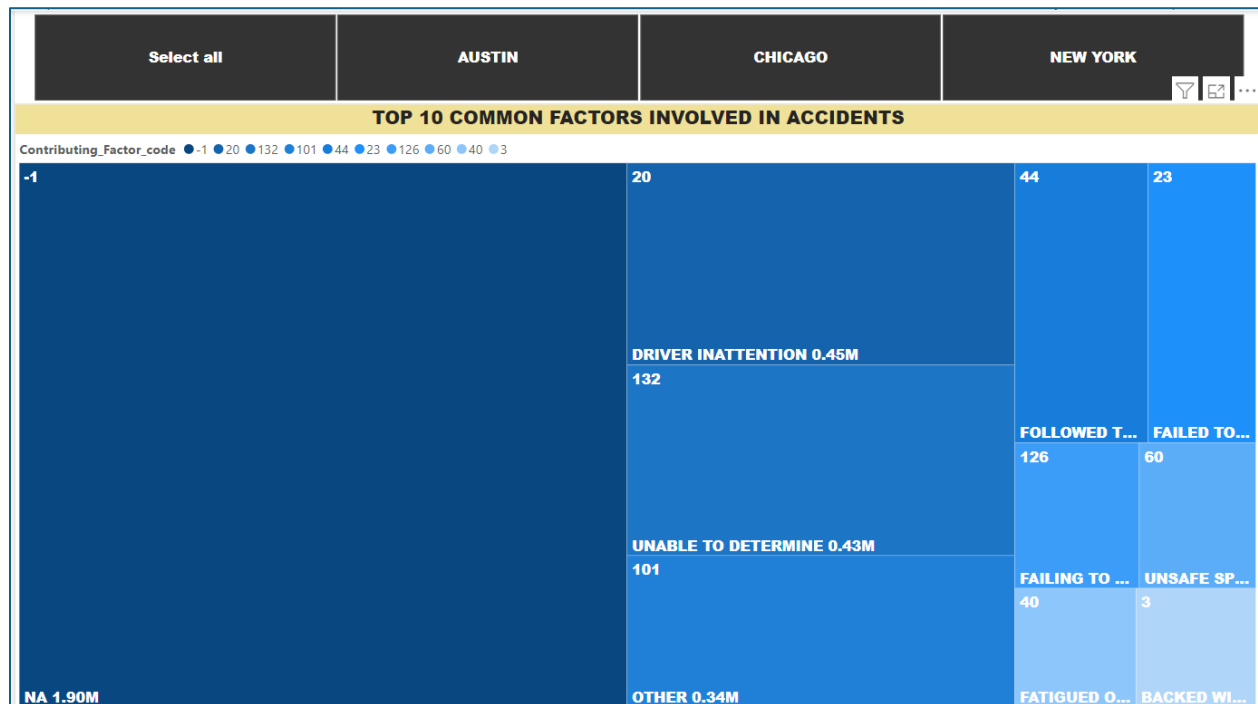
```
--Q10 most common factors involved in accidents
```

```
SELECT TOP 10 Contributing_Factor_code, Contributing_Factor_DESCRIPTION,
COUNT(fa.SK_FACT_ACCIDENTS) AS COUNT_OF_ACCIDENTS
FROM Dim_Contribution dc
join FACT_CONTRIBUTION fc on dc.SK_Contribution=fc.SK_Contribution
join FACT_ACCIDENTS fa on fa.SK_FACT_ACCIDENTS=fc.SK_FACT_ACCIDENTS
GROUP BY Contributing_Factor_code, Contributing_Factor_DESCRIPTION
ORDER BY COUNT_OF_ACCIDENTS DESC
```

110 %

Results Messages

	Contributing_Factor_code	Contributing_Factor_DESCRIPTION	COUNT_OF_ACCIDENTS
1	-1	NA	1904876
2	20	DRIVER INATTENTION	451447
3	132	UNABLE TO DETERMINE	425938
4	101	OTHER	338755
5	44	FOLLOWED TOO CLOSELY	214866
6	23	FAILED TO DRIVE IN SINGLE LANE	175177
7	126	FAILING TO YIELD RIGHT-OF-WAY	104173
8	60	UNSAFE SPEED	98381
9	40	FATIGUED OR ASLEEP	83129
10	3	BACKED WITHOUT SAFETY	82558





11.

--Q11 Store vehicle type/vehicles involved in accidents at its least graunality

```

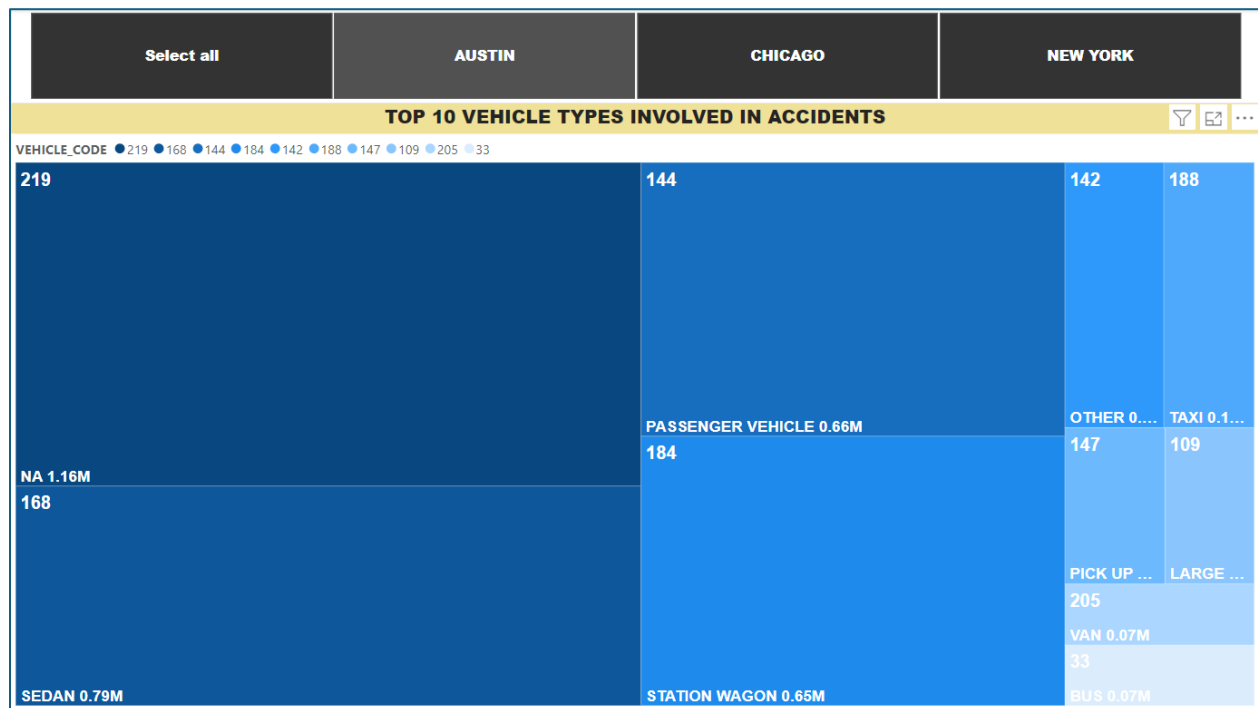
SELECT TOP 10 count(*) as NumAccidents,v.VEHICLE_CODE,v.Vehicle_Type
from FACT_VEHICLE f join DIM_Vehicle_Type v on f.SK_VEHICLE_TYPE=v.SK_VEHICLE_TYPE
GROUP BY v.VEHICLE_CODE,v.Vehicle_Type
order by count(*) desc

```

110 %

Results Messages

	NumAccidents	VEHICLE_CODE	Vehicle_Type
1	1156597	219	NA
2	785425	168	SEDAN
3	663095	144	PASSENGER VEHICLE
4	653145	184	STATION WAGON
5	149820	142	OTHER
6	136984	188	TAXI
7	89400	147	PICK UP TRUCK
8	79640	109	LARGE COMMERCIAL VEHICLE
9	65947	205	VAN
10	65883	33	BUS



12.

```
--12.Using Austin and NYC datasets, Create a visualization to show number of incidents that involved more than 2 vehicles. Show this data as a comp.  
  
SELECT count(*) as NumAccidents,s.SOURCE  
from FACT_ACCIDENTS a join FACT_VEHICLE v on v.sk_fact_accidents=a.sk_fact_accidents  
join DIM_Source s on a.SK_Source=s.sk_source  
where v.units_involved>2  
group by s.source;
```

110 %

Results Messages

	NumAccidents	SOURCE
1	48769	AUSTIN
2	375871	NEW YORK

