

ROAD ACCIDENT REPORT SQL QUERIES

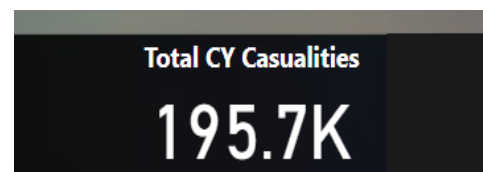
CY CASUALTIES

```
SQLQuery1.sql - D...GV316UT\acer (54))*  X Object Explorer
Select * from road_accident
Select sum(number_of_casualties) AS CY_Casualties
from road_accident
Where year (accident_date)='2022'
```

SQL QUERY OUTPUT

Results		Messages
CY_Casualties		
1	195737	

POWER BI OUTPUT



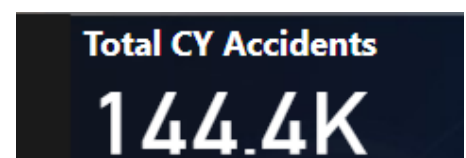
CY ACCIDENTS

```
SQLQuery1.sql - D...GV316UT\acer (54))*  X Object Explorer
Select * from road_accident
Select COUNT(DISTINCT accident_index) AS CY_Accidents
from road_accident
Where year (accident_date)='2022'
```

SQL QUERY OUTPUT

Results		Messages
CY_Accidents		
1	144419	

POWER BI OUTPUT



CY FATAL CASUALTIES

```
SQLQuery1.sql - D...GV316UT\acer (54))* X Object Explorer
Select * from road_accident
Select SUM(number_of_casualties) AS CY_Fatal_Casualties
from road_accident
Where year (accident_date)='2022' and accident_severity='Fatal'
```

SQL QUERY OUTPUT

Results		Messages
CY_Fatal_Casualties		
1	2855	

POWER BI OUTPUT

CY Fetal Casualties

2.9K

CY SERIOUS CASUALTIES

```
SQLQuery1.sql - D...GV316UT\acer (54))* X Object Explorer
Select * from road_accident
Select SUM(number_of_casualties) AS CY_Serious_Casualties
from road_accident
Where year (accident_date)='2022' and accident_severity='Serious'
```

SQL QUERY OUTPUT

Results		Messages
CY_Serious_Casualties		
1	27045	

POWER BI OUTPUT

CY Serious Casualties

27.0K

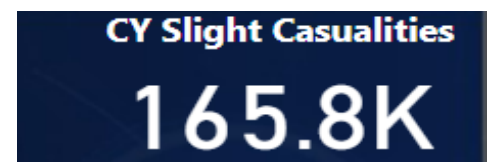
CY SLIGHT CASUALTIES

```
SQLQuery1.sql - D...GV316UT\acer (54))* X Object Explorer
Select * from road_accident
Select SUM(number_of_casualties) AS CY_Slight_Casualties
from road_accident
Where year (accident_date)='2022' and accident_severity='Slight'
```

SQL QUERY OUTPUT

Results		Messages
CY_Slight_Casualties		
1	165837	

POWER BI OUTPUT



CASUALTIES BY VEHICLE TYPE

SQLQuery1.sql - D:\GV316UT\acer (92))* X Object Explorer

```
select * from road_accident
```

```
select
```

```
Case
```

```
when vehicle_type in ('Agricultural vehicle') then 'Agricultural'
```

```
when vehicle_type in ('Car', 'Taxi/Private hire car') then 'Car'
```

```
when vehicle_type in ('Motorcycle over 500cc', 'Motorcycle 125cc and under', 'Motorcycle 50cc and under', 'Motorcycle over 125cc and up to 500cc', 'fadal cycle') then 'Bike'
```

```
when vehicle_type in ('Bus or coach (17 or more pass seats)', 'Minibus (8 - 16 passenger seats)') then 'Bus'
```

```
when vehicle_type in ('Goods 7.5 tonnes mgw and over', 'Van / Goods 3.5 tonnes mgw or under', 'Goods over 3.5t. and under 7.5t') then 'Van'
```

```
else 'Other'
```

```
end AS vehicle_group,
```

```
SUM(number_of_casualties) as CY_Casualties
```

```
from road_accident
```

```
Where year(accident_date)='2022'
```

```
group by
```

```
Case
```

```
when vehicle_type in ('Agricultural vehicle') then 'Agricultural'
```

```
when vehicle_type in ('Car', 'Taxi/Private hire car') then 'Car'
```

```
when vehicle_type in ('Motorcycle over 500cc', 'Motorcycle 125cc and under', 'Motorcycle 50cc and under', 'Motorcycle over 125cc and up to 500cc', 'fadal cycle') then 'Bike'
```

```
when vehicle_type in ('Bus or coach (17 or more pass seats)', 'Minibus (8 - 16 passenger seats)') then 'Bus'
```

```
when vehicle_type in ('Goods 7.5 tonnes mgw and over', 'Van / Goods 3.5 tonnes mgw or under', 'Goods over 3.5t. and under 7.5t') then 'Van'
```

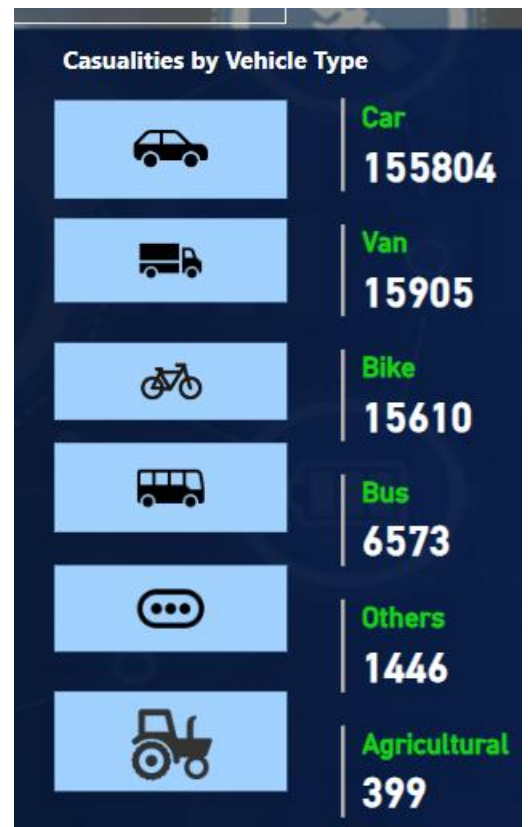
```
else 'Other'
```

```
end
```

SQL QUERY OUTPUT

Results Messages		
	vehicle_group	CY_Casualties
1	Bike	15579
2	Bus	6573
3	Car	155804
4	Agricultural	399
5	Van	15905
6	Other	1477

POWER BI OUTPUT



CY CASUALTIES VS PV CASUALTIES MONTHLY TREND

CY CASUALTIES

```
SQLQuery1.sql - D:\GV316UT\acer (92))* X Object Explorer
select * from road_accident
SELECT DATENAME(month, accident_date) AS month_name, sum(number_of_casualties) as CY_Casualties
from road_accident
where year(accident_date)='2022'
group by DATENAME(month, accident_date)
```

SQL QUERY OUTPUT

	month_name	CY_Casualties
1	February	14804
2	June	17230
3	August	16796
4	April	15767
5	May	16775
6	December	13200
7	January	13163
8	September	17500
9	October	18287
10	July	17201
11	November	18439
12	March	16575

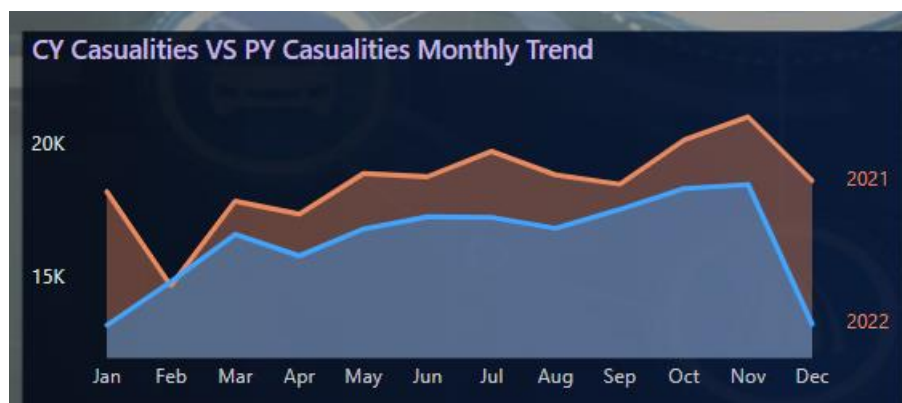
PY CASUALTIES

```
SQLQuery1.sql - D...GV316UT\acer (92))* X Object Explorer
--select * from road_accident
--SELECT DATENAME(month, accident_date) AS month_name,sum(number_of_casualties) as PY_Casualties
--from road_accident
--where year(accident_date)='2021'
--group by DATENAME(month, accident_date)
```

SQL QUERY OUTPUT

	month_name	PY_Casualties
1	February	14648
2	June	18728
3	August	18797
4	April	17335
5	May	18852
6	December	18576
7	January	18173
8	September	18456
9	October	20109
10	July	19682
11	November	20975
12	March	17815

POWER BI OUTPUT



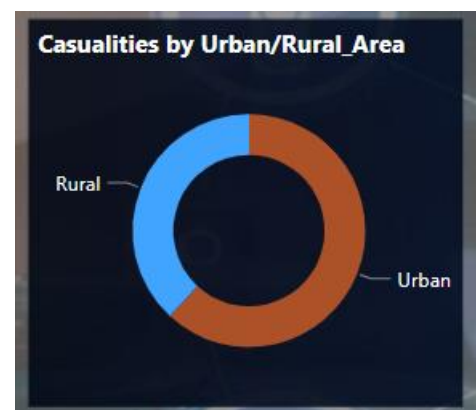
CASUALTIES BY URBAN AND RURAL AREA

```
SQLQuery1.sql - D:\GV316UT\acer (92))* X Object Explorer
select * from road_accident
SELECT urban_or_rural_area, cast(sum(number_of_casualties) as decimal (10,2))*100/
(select cast(sum(number_of_casualties) as decimal (10,2)) from road_accident where year(accident_date)= '2022') as PCT
from road_accident
where year(accident_date)='2021'
group by urban_or_rural_area
```

SQL QUERY OUTPUT

Results			Messages		
	urban_or_rural_area	PCT			
1	Urban	68.7723833511293			
2	Rural	44.7197004143314			

POWER BI OUTPUT



CASUALTIES BY LIGHT CONDITIONS

```
SQLQuery1.sql - D:\GV316UT\acer (92)) * X Object Explorer
select * from road_accident

SELECT
CASE
when light_conditions in ('Daylight') then 'Day'
when light_conditions in ('Darkness - lights lit','Darkness - lighting unknown','Darkness - no lighting' ) then 'Night'
end as Light_Conditions,
cast( cast(sum(number_of_casualties) as decimal (10,2)) *100 /
(select cast(sum(number_of_casualties) as decimal (10,2)) from road_accident where year(accident_date)= '2022') as decimal (10,2)) AS CY_Casualties_PCT
from road_accident
where year(accident_date)='2022'
group by
CASE
when light_conditions in ('Daylight') then 'Day'
when light_conditions in ('Darkness - lights lit','Darkness - lighting unknown','Darkness - no lighting' ) then 'Night'
end
```

SQL QUERY OUTPUT

100 %

	Light_Conditions	CY_Casualties_PCT
1	Day	73.84
2	Night	25.82
3	NULL	0.34

POWER BI OUTPUT

