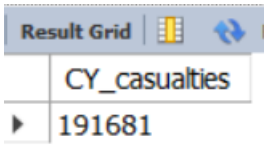
SQL QUERIES FOR ROAD ACCIDENT ANALYSIS

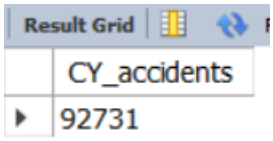
CY casualties

```
SELECT sum(number_of_casualties) as CY_casualties
FROM road_accident_data1
where year ="2022";
```



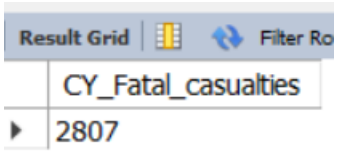
CY accidents

```
SELECT count(distinct Accident_Index) as CY_accidents
FROM road_accident_data1
where year ="2022";
```



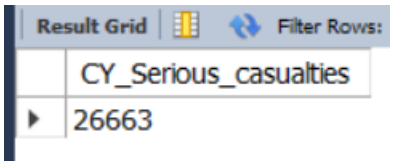
CY Fatal_casualties

```
SELECT sum(number_of_casualties) as CY_Fatal_casualties
FROM road_accident_data1
where accident_severity ='Fatal' and year ="2022";
```



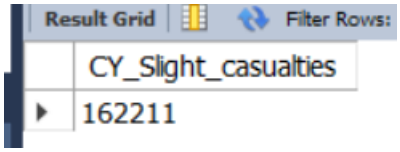
CY Serious_casualties

```
SELECT sum(number_of_casualties) as CY_Serious_casualties
FROM road_accident_data1
where accident_severity ='Serious' and year ="2022";
```



CY Slight_casualties

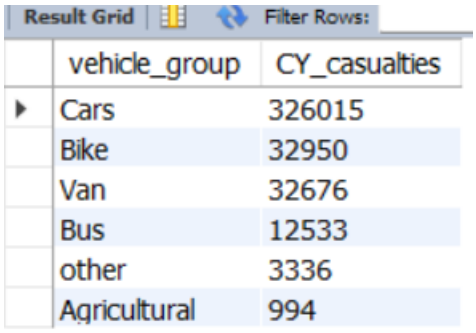
```
SELECT sum(number_of_casualties) as CY_Slight_casualties
FROM road_accident_data1
where accident_severity ='Slight' and year ="2022";
```



Grouping Vehicles and finding the no. of casualties

```
select
case
when vehicle_type in ('Agricultural vehicle') then 'Agricultural'
when vehicle_type in ('car','Taxi/Private hire car') then 'Cars'
when vehicle_type in ('Motorcycle over 500cc','Motorcycle over 125cc and up to 500cc','Motorcycle 50cc and under','Motorcycle 125cc and under') 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','Goods over 3.5t. and under 7.5t','Van / Goods 3.5 tonnes mgw or under') then 'Van'
else 'other'
```

```
End as vehicle_group,


sum(number_of_casualties) as CY_casualties

from road_accident_data1


Group by

case

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

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

when vehicle_type in ('Motorcycle over 500cc','Motorcycle over 125cc and up to
500cc','Motorcycle 50cc and under','Motorcycle 125cc and under') 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','Goods over 3.5t. and under
7.5t','Van / Goods 3.5 tonnes mgw or under') then 'Van'

else 'other'

end;
```



Result Grid | Filter Rows:

vehicle_group	CY_casualties
Cars	326015
Bike	32950
Van	32676
Bus	12533
other	3336
Agricultural	994

CY casualties by Monthly trend

```
select month, sum(number_of_casualties) as CY_casualties

from road_accident_data1

where year ='2022'

group by month;
```

month	CY_casualties
Jan	12832
Feb	14450
Mar	16239
Apr	15483
May	16518
Jun	16909
Jul	16905
Aug	16446
Sep	17132
Oct	17872
Nov	18033
Dec	12862

CY casualties by Road_type

```
select Road_type, sum(number_of_casualties) as CY_casualties
from road_accident_data1
where year ='2022'
group by Road_type;
```

Road_type	CY_casualties
Single carriageway	142243
Roundabout	12368
Dual carriageway	31465
One way street	3425
Slip road	2180

CY casualties by urban_or_rural_area

```
select urban_or_rural_area, sum(number_of_casualties) as CY_casualties
from road_accident_data1
where year ='2022'
group by urban_or_rural_area;
```

urban_or_rural_area	CY_casualties
Urban	118586
Rural	73095

CY casualties by light_conditions

```
select

case

when light_conditions in ('Daylight') then 'Day'

when light_conditions in ('Darkness - lights lit','Darkness - lights unlit','Darkness - no lighting','Darkness - lighting unknown') then 'Dark'

end as light_conditions,


sum(number_of_casualties) as CY_casualties

from road_accident_data1


Group by

case

when light_conditions in ('Daylight') then 'Day'

when light_conditions in ('Darkness - lights lit','Darkness - lights unlit','Darkness - no lighting','Darkness - lighting unknown') then 'Dark'

end;
```

light_conditions	CY_casualties
Day	298241
Dark	110263