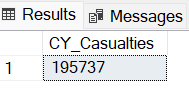
**ROAD ACCIDENT SQL REPORT**

**Current Year Casualties**

select SUM(number\_of\_casualties) as CY\_Casualties

from road\_accident

where YEAR(accident\_date) = '2022'

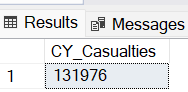


**Current Year Casualties for Dry conditions**

select SUM(number\_of\_casualties) as CY\_Casualties

from road\_accident

where YEAR(accident\_date) = '2022' and road\_surface\_conditions= 'dry'

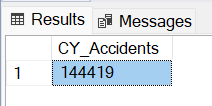


**Current Year Accidents**

select COUNT(Distinct accident\_index) as CY\_Accidents

from road\_accident

where YEAR(accident\_date) = '2022'

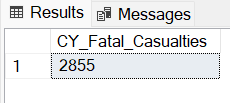


**Current Year Fatal Casualties**

select SUM(number\_of\_casualties) as CY\_Fatal\_Casualties

from road\_accident

where YEAR(accident\_date) = '2022' and accident\_severity= 'fatal'

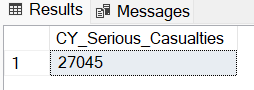


**Current Year Serious Casualties**

select SUM(number\_of\_casualties) as CY\_Serious\_Casualties

from road\_accident

where YEAR(accident\_date) = '2022' and accident\_severity= 'serious'

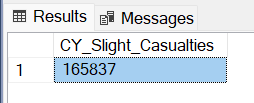


**Current Year Slight Casualties**

select SUM(number\_of\_casualties) as CY\_Slight\_Casualties

from road\_accident

where YEAR(accident\_date) = '2022' and accident\_severity= 'slight'

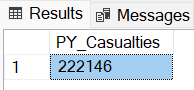


**Previous Year Casualties**

select SUM(number\_of\_casualties) as PY\_Casualties

from road\_accident

where YEAR(accident\_date) = '2021'

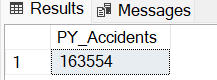


**Previous Year Accidents**

select COUNT(Distinct accident\_index) as PY\_Accidents

from road\_accident

where YEAR(accident\_date) = '2021'

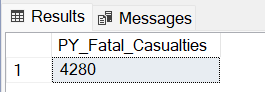


**Previous Year Fatal Casualties**

select SUM(number\_of\_casualties) as PY\_Fatal\_Casualties

from road\_accident

where YEAR(accident\_date) = '2021' and accident\_severity= 'fatal'

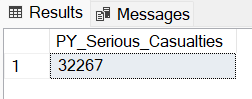


**Previous Year Serious Casualties**

select SUM(number\_of\_casualties) as PY\_Serious\_Casualties

from road\_accident

where YEAR(accident\_date) = '2021' and accident\_severity= 'serious'

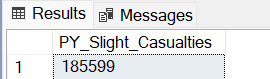
****

**Previous Year Slight Casualties**

select SUM(number\_of\_casualties) as PY\_Slight\_Casualties

from road\_accident

where YEAR(accident\_date) = '2021' and accident\_severity= 'slight'



**The Number of CY Casualties by Accident Severity as a percentage**

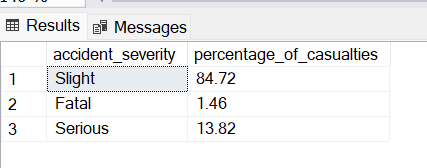
select accident\_severity,Cast( Cast (SUM(number\_of\_casualties) AS decimal(10,2))\* 100/(select Cast (SUM(number\_of\_casualties) AS decimal(10,2)) From road\_accident

where YEAR(accident\_date)='2022' ) As decimal(10,2)) As percentage\_of\_casualties

From road\_accident

where YEAR(accident\_date)='2022'

group by accident\_severity



**YoY Growth on Casualties**

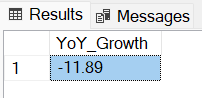
select Distinct Cast (((select Cast(SUM(number\_of\_casualties) AS decimal(10,2)) from road\_accident

where YEAR(accident\_date) = '2022') - (select Cast(SUM(number\_of\_casualties) AS decimal(10,2)) from road\_accident

where YEAR(accident\_date) = '2021')) \* 100 / (select Cast(SUM(number\_of\_casualties) AS decimal(10,2)) from road\_accident

where YEAR(accident\_date) = '2021') AS decimal(10,2)) As YoY\_Growth

from road\_accident



Similarly for fatal , slight Casualties YoY Growth can be calculated just using the WHERE clause.

**The Number of CY Casualties by Vehicle Type**

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 125cc and under','Motorcycle 50cc and under','Motorcycle over 125cc and up to 500cc','Motorcycle over 500cc','Pedal 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','Goods over 3.5t. and under 7.5t','Van / Goods 3.5 tonnes mgw or under') THEN 'Van'

else 'Other'

end AS Vehicle\_Type , 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 'Cars'

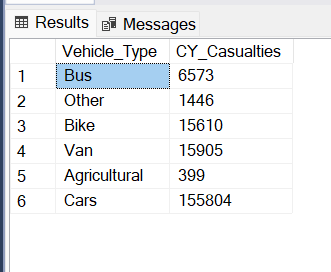
when vehicle\_type In ('Motorcycle 125cc and under','Motorcycle 50cc and under','Motorcycle over 125cc and up to 500cc','Motorcycle over 500cc','Pedal cycle') THEN 'Bike'

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','Goods over 3.5t. and under 7.5t','Van / Goods 3.5 tonnes mgw or under') THEN 'Van'

else 'Other'

END



**The Number of CY and PY Casualties by month**

SELECT

DATENAME(Month, accident\_date) AS Month\_Name,

SUM(CASE WHEN YEAR(accident\_date) = 2022 THEN number\_of\_casualties ELSE 0 END) AS CY\_Casualties,

SUM(CASE WHEN YEAR(accident\_date) = 2021 THEN number\_of\_casualties ELSE 0 END) AS PY\_Casualties

FROM

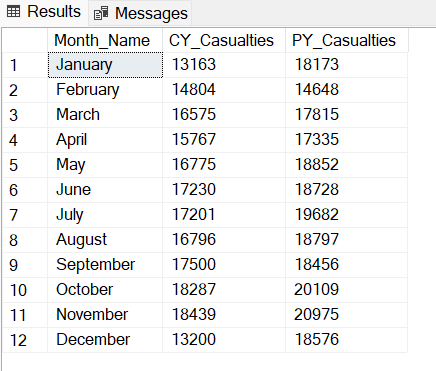
road\_accident

GROUP BY

DATENAME(Month, accident\_date), MONTH(accident\_date)

ORDER BY

MONTH(accident\_date);

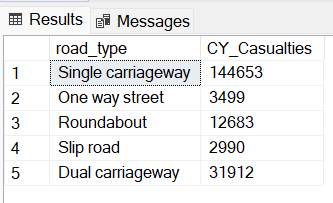


**The Number of CY Casualties by Road Type**

select road\_type,SUM(number\_of\_casualties) as CY\_Casualties From road\_accident

where YEAR(accident\_date)='2022'

group by road\_type



/\*Find the number of casualities by Urban/Rural area \*/

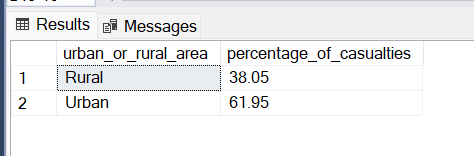
select urban\_or\_rural\_area,Cast( Cast (SUM(number\_of\_casualties) AS decimal(10,2))\* 100/(select Cast (SUM(number\_of\_casualties) AS decimal(10,2)) From road\_accident

where YEAR(accident\_date)='2022' ) As decimal(10,2)) As percentage\_of\_casualties

From road\_accident

where YEAR(accident\_date)='2022'

group by urban\_or\_rural\_area



**The Number of Casualties by Location**

select Top 10 local\_authority,SUM(number\_of\_casualties) As Total\_Casualties

From road\_accident

group by local\_authority

order by Total\_Casualties DESC

