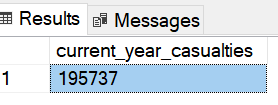
***Road Accident Report SQL Queries***

**Current Year Casualties**

select sum(number\_of\_casualties) as current\_year\_casualties

from road\_accident

where year(accident\_date) = '2022'



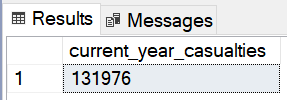
**Testing filter applying**

**Current Year Casualties for Dry Road**

select sum(number\_of\_casualties) as current\_year\_casualties

from road\_accident

where year(accident\_date) = '2022'and road\_surface\_conditions = 'Dry'

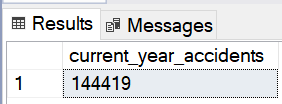


**Current Year Accidents**

select count(distinct accident\_index) as current\_year\_accidents

from road\_accident

where year(accident\_date) = '2022'

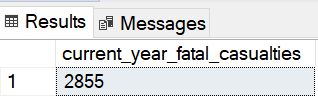


**Current Year Fatal Casualties**

select sum(number\_of\_casualties) as current\_year\_fatal\_casualties

from road\_accident

where year(accident\_date) = '2022' and accident\_severity = 'Fatal'

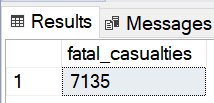


**Total Fatal Casualties**

select sum(number\_of\_casualties) as current\_year\_fatal\_casualties

from road\_accident

where accident\_severity = 'Fatal'

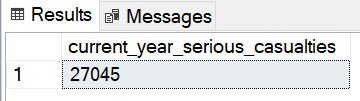


**Current Year Serious Casualties**

select sum(number\_of\_casualties) as current\_year\_serious\_casualties

from road\_accident

where year(accident\_date) = '2022' and accident\_severity = 'Serious'

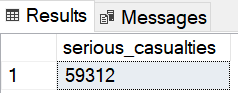


**Total Serious Casualties**

select sum(number\_of\_casualties) as serious\_casualties

from road\_accident

where accident\_severity = 'Serious'

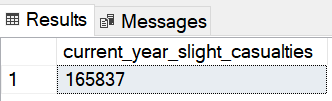


Current Year Slight Casualties

select sum(number\_of\_casualties) as current\_year\_slight\_casualties

from road\_accident

where year(accident\_date) = '2022' and accident\_severity = 'Slight'

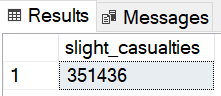


Total Slight Casualties

select sum(number\_of\_casualties) as slight\_casualties

from road\_accident

where accident\_severity = 'Slight'



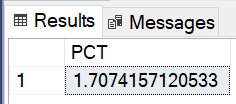
Fatal Casualties % of Total

select cast(sum(number\_of\_casualties) as decimal(10,2)) \* 100 /

(select cast(sum(number\_of\_casualties) as decimal(10,2)) from road\_accident) as PCT

from road\_accident

where accident\_severity = 'Fatal'



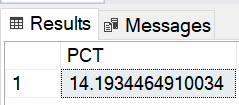
Serious Casualties % of Total

select cast(sum(number\_of\_casualties) as decimal(10,2)) \* 100 /

(select cast(sum(number\_of\_casualties) as decimal(10,2)) from road\_accident) as PCT

from road\_accident

where accident\_severity = 'Serious'



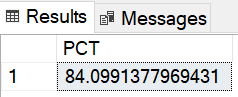
Slight Casualties % of Total

select cast(sum(number\_of\_casualties) as decimal(10,2)) \* 100 /

(select cast(sum(number\_of\_casualties) as decimal(10,2)) from road\_accident) as PCT

from road\_accident

where accident\_severity = 'Slight'



**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\_group,

sum(number\_of\_casualties) as casualties

from road\_accident

group by

case

when vehicle\_type in ('Agricultural vehicle') then 'Agricultural'

when vehicle\_type in ('Car' , 'Taxi/Private hire car') then 'Cars'

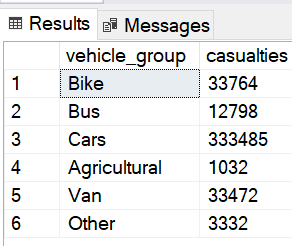
when vehicle\_type in ('Motorcycle 125cc and under' , 'Motorcycle 50cc and under' , 'Motorcycle over 125cc and up to 500cc' , 'Motorcycle over 500cc' , 'Pedal cycle') then 'Bike'

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



**Current Year 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\_group,

sum(number\_of\_casualties) as current\_year\_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'

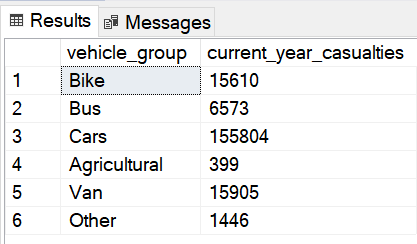
when vehicle\_type in ('Motorcycle 125cc and under' , 'Motorcycle 50cc and under' , 'Motorcycle over 125cc and up to 500cc' , 'Motorcycle over 500cc' , 'Pedal cycle') then 'Bike'

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



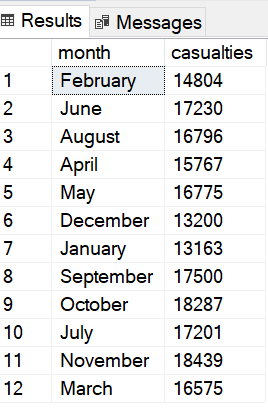
Current Year Casualties Monthly Trend

select datename(month, accident\_date) as month, sum(number\_of\_casualties) as casualties

from road\_accident

where year(accident\_date) = '2022'

group by datename(month, accident\_date)



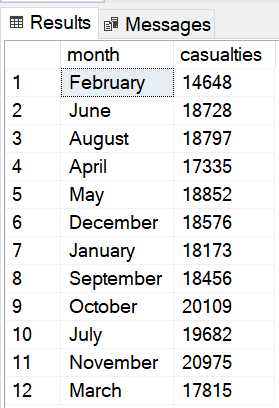
Previous Year Casualties Monthly Trend

select datename(month, accident\_date) as month, sum(number\_of\_casualties) as casualties

from road\_accident

where year(accident\_date) = '2021'

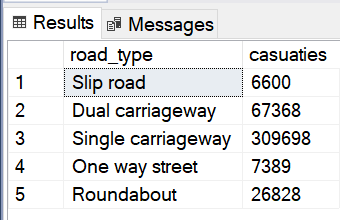
group by datename(month, accident\_date)



**Casualties by Road Type**

select road\_type, sum(number\_of\_casualties) as casuaties from road\_accident

group by road\_type

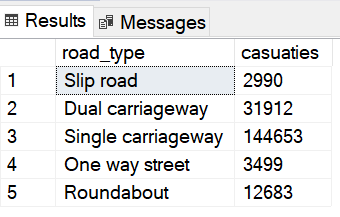


**Current Year Casualties by Road Type**

select road\_type, sum(number\_of\_casualties) as casuaties from road\_accident

where year(accident\_date) = '2022'

group by road\_type

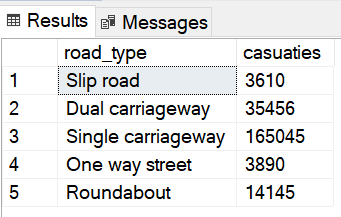


**Previous Year Casualties by Road Type**

select road\_type, sum(number\_of\_casualties) as casuaties from road\_accident

where year(accident\_date) = '2021'

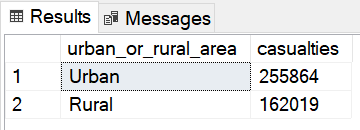
group by road\_type



**Casualties by Urban/Rural Area**

select urban\_or\_rural\_area, sum(number\_of\_casualties) as casualties from road\_accident

group by urban\_or\_rural\_area



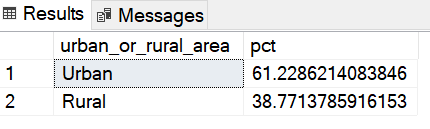
Casualties by Urban/Rural Area % of Total

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) as pct

from road\_accident

group by urban\_or\_rural\_area

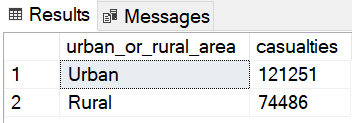


Current Year Casualties by Urban/Rural Area

select urban\_or\_rural\_area, sum(number\_of\_casualties) as casualties from road\_accident

where year(accident\_date) = '2022'

group by urban\_or\_rural\_area



Current Year Casualties by Urban/Rural Area % of Total

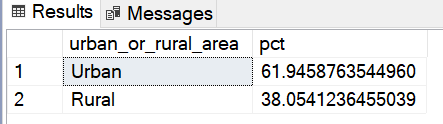
select urban\_or\_rural\_area, cast(sum(number\_of\_casualties) as decimal(10, 2)) \* 100 /

(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) = '2022'

group by urban\_or\_rural\_area

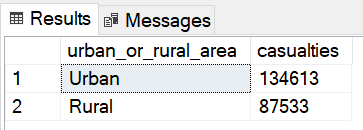


Previous Year Casualties by Urban/Rural Area

select urban\_or\_rural\_area, sum(number\_of\_casualties) as casualties from road\_accident

where year(accident\_date) = '2021'

group by urban\_or\_rural\_area



Previous Year Casualties by Urban/Rural Area % of total

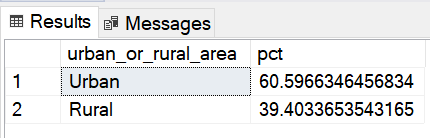
select urban\_or\_rural\_area, cast(sum(number\_of\_casualties) as decimal(10, 2)) \* 100 /

(select cast(sum(number\_of\_casualties) as decimal(10, 2)) from road\_accident where year(accident\_date) = '2021') as pct

from road\_accident

where year(accident\_date) = '2021'

group by urban\_or\_rural\_area



Current Year Casualties by Light Conditions

select

case

when light\_conditions in ('Daylight') then 'Day'

when light\_conditions in ('Darkness - lighting unknown', 'Darkness - lights lit', 'Darkness - light unlit', 'Darkness - no lighting') then 'Night'

end as Light\_Condition,

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 casualties\_pct

from road\_accident

where year(accident\_date) = '2022'

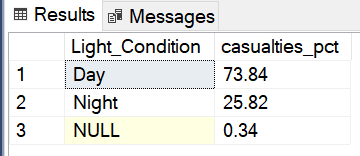
group by

case

when light\_conditions in ('Daylight') then 'Day'

when light\_conditions in ('Darkness - lighting unknown', 'Darkness - lights lit', 'Darkness - light unlit', 'Darkness - no lighting') then 'Night'

end



Previous Year Casualties by Light Conditions

select

case

when light\_conditions in ('Daylight') then 'Day'

when light\_conditions in ('Darkness - lighting unknown', 'Darkness - lights lit', 'Darkness - light unlit', 'Darkness - no lighting') then 'Night'

end as Light\_Condition,

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) = '2021') as decimal(10, 2)) as casualties\_pct

from road\_accident

where year(accident\_date) = '2021'

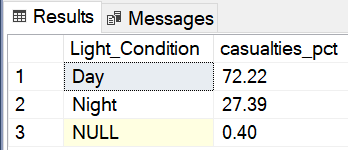
group by

case

when light\_conditions in ('Daylight') then 'Day'

when light\_conditions in ('Darkness - lighting unknown', 'Darkness - lights lit', 'Darkness - light unlit', 'Darkness - no lighting') then 'Night'

end



Top 10 Locations by No of Casualties

select top 10 local\_authority , sum(number\_of\_casualties) as total\_casualties

from road\_accident

group by local\_authority

order by total\_casualties desc

