Road Accident Analysis SQL Report

1. Total casualties for current year.

SELECT SUM(number\_of\_casualties) AS CY\_Casualties

FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022'



1. Total accident for current year.

SELECT count(accident\_index) AS CY\_Accidents

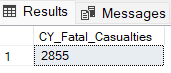
FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022'



1. Total Casualties by accident severity Fatal.

SELECT sum(number\_of\_casualties) AS CY\_Fatal\_Casualties

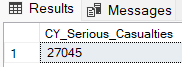
FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022' AND accident\_severity = 'Fatal'



1. Total Casualties by accident severity Serious.

SELECT sum(number\_of\_casualties) AS CY\_Serious\_Casualties

FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022' AND accident\_severity = 'Serious'

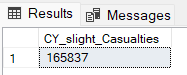


1. Total Casualties by accident severity Slight.

SELECT sum(number\_of\_casualties) AS CY\_slight\_Casualties

FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022' AND

accident\_severity = 'Slight'



1. Total Casualties with respect to vehicle type for current year.

SELECT

CASE

WHEN vehicle\_type IN ('Agricultural vehicle') Then 'Agricultural'

WHEN vehicle\_type IN ('Motorcycle over 500cc', 'Motorcycle 125cc and under','Motorcycle 50cc and under', 'Motorcycle over 125cc and up to 500cc','Pedal cycle') Then 'Motorcycle'

WHEN vehicle\_type IN ('Bus or coach (17 or more pass seats)', 'Minibus (8 - 16 passenger seats)') THEN 'BUS'

WHEN vehicle\_type IN ('Car', 'Taxi/Private hire car') Then 'Car'

WHEN vehicle\_type IN ('Van / Goods 3.5 tonnes mgw or under','Goods over 3.5t. and under 7.5t','Goods 7.5 tonnes mgw and over') Then 'Van'

ELSE 'Other'

END as vehicle\_group,sum(number\_of\_casualties) AS CY\_slight\_Casualties

FROM [dbo].[road\_accident] Where YEAR (accident\_date) = '2022'

Group By

CASE

WHEN vehicle\_type IN ('Agricultural vehicle') Then 'Agricultural'

WHEN vehicle\_type IN ('Motorcycle over 500cc', 'Motorcycle 125cc and under', 'Motorcycle 50cc and under', 'Motorcycle over 125cc and up to 500cc','Pedal cycle') Then 'Motorcycle'

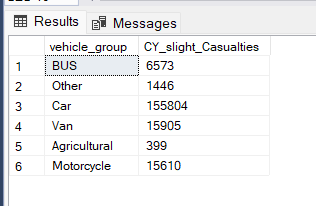
WHEN vehicle\_type IN ('Bus or coach (17 or more pass seats)', 'Minibus (8 - 16 passenger seats)') THEN 'BUS'

WHEN vehicle\_type IN ('Car', 'Taxi/Private hire car') Then 'Car'

WHEN vehicle\_type IN ('Van / Goods 3.5 tonnes mgw or under','Goods over 3.5t. and under 7.5t','Goods 7.5 tonnes mgw and over') Then 'Van'

ELSE 'Other'

END



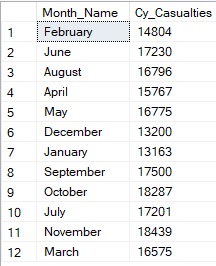
1. Monthly trend showing comparison for current Year and Previous Year

Select DATENAME(Month, accident\_date) as Month\_Name

SUM(number\_of\_casualties) As Cy\_Casualtie

From [dbo].[road\_accident] Where Year(accident\_date) = '2022'

Group by DATENAME(Month, accident\_date)

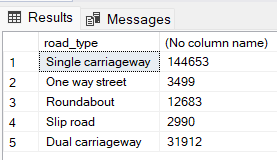


1. Casualties by Road Type for current year

Select road\_type, SUM(number\_of\_casualties)

From [dbo].[road\_accident] Where YEAR(accident\_date) ='2022'

Group by road\_type



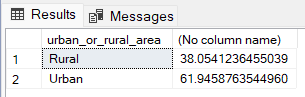
1. Current Year casualties by Area/Location & by Day/Night

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 [dbo].[road\_accident] Where YEAR (accident\_date) = '2022')

From [dbo].[road\_accident] Where YEAR (accident\_date) = '2022'

Group by urban\_or\_rural\_area



Select

CASE

WHEN light\_conditions IN ('Darkness - lights lit', 'Darkness - lights unlit', 'Darkness - lighting unknown', 'Darkness - no lighting') Then 'Night'

WHEN light\_conditions IN ('Daylight') Then 'Day'

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 [dbo].[road\_accident] Where YEAR(accident\_date) ='2022') As Decimal (10,2))

AS CY\_Casualties\_PCT

From [dbo].[road\_accident] Where YEAR(accident\_date) ='2022'

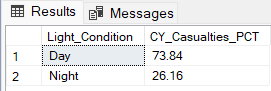
Group By

CASE

WHEN light\_conditions IN ('Darkness - lights lit', 'Darkness - lights unlit', 'Darkness - lighting unknown', 'Darkness - no lighting') Then 'Night'

WHEN light\_conditions IN ('Daylight') Then 'Day'

END



7- Total Casualties and by location.

Select Top 15 local\_authority, Sum(number\_of\_casualties) As Total\_Casualties

From [dbo].[road\_accident]

Group by local\_authority

Order by Total\_Casualties DESC

