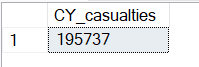
**ROAD ACCIDENT REPORTS – SQL QUERIES**

**CY\_Casualties:**

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

**FROM road\_accident**

**WHERE YEAR(accident\_date) = '2022';**

****

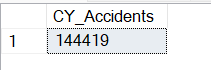
--------------------------------------------------------------------------------------

**CY – Accidents - 2022:**

**SELECT COUNT(DISTINCT accident\_index) as CY\_Accidents**

**FROM road\_accident**

**WHERE YEAR(accident\_date) = '2022';**

****

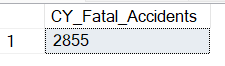
--------------------------------------------------------------------------------------

**CY – Fatal Casualties - 2022:**

**SELECT SUM(number\_of\_casualties) AS CY\_Fatal\_Accidents**

**FROM road\_accident**

**WHERE accident\_severity = 'Fatal' AND YEAR(accident\_date) = '2022';**

****

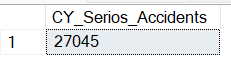
--------------------------------------------------------------------------------------

**CY – Serios Casualties -2022:**

**SELECT SUM(number\_of\_casualties) AS CY\_Serios\_Accidents**

**FROM road\_accident**

**WHERE accident\_severity = 'Serious' AND YEAR(accident\_date) = '2022';**

****

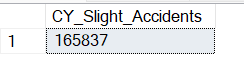
--------------------------------------------------------------------------------------

**CY – Slight Casualties – 2022:**

**SELECT SUM(number\_of\_casualties) AS CY\_Slight\_Accidents**

**FROM road\_accident**

**WHERE accident\_severity = 'Slight' AND YEAR(accident\_date) = '2022';**

****

**Total Number of [Slight, Fatal, Serious] Casualties:**

**with slight\_casualties AS (**

**SELECT SUM(number\_of\_casualties) as CY\_Slight**

**FROM road\_accident**

**WHERE accident\_severity = 'Slight'**

**),**

**Fatal\_casualties AS (**

**SELECT SUM(number\_of\_casualties) as CY\_Fatal**

**FROM road\_accident**

**WHERE accident\_severity = 'Fatal'**

**),**

**Serious\_casualties AS (**

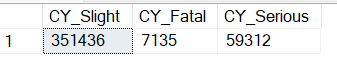
**SELECT SUM(number\_of\_casualties) as CY\_Serious**

**FROM road\_accident**

**WHERE accident\_severity = 'Serious'**

**)**

**SELECT \* FROM slight\_casualties,Fatal\_casualties,Serious\_casualties;**

****

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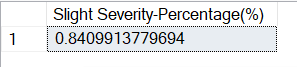
**Percentage(%) of Accidents that got Severity - Slight:**

**SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))/**

**(SELECT(CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))) FROM road\_accident) AS "Slight Severity-Percentage(%)"**

**FROM road\_accident**

**WHERE accident\_severity = 'Slight';**

****

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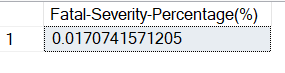
**Percentage(%) of Accidents that got Severity – Fatal:**

**SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))/**

**(SELECT(CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))) FROM road\_accident) AS "Fatal-Severity-Percentage(%)"**

**FROM road\_accident**

**WHERE accident\_severity = 'Fatal';**

****

--------------------------------------------------------------------------------------

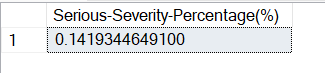
**Percentage(%) of Accidents that got Severity – Serious:**

**SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))/**

**(SELECT(CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))) FROM road\_accident) AS "Serious-Severity-Percentage(%)"**

**FROM road\_accident**

**WHERE accident\_severity = 'Serious';**

****

**---------------------------------------------------------------------------------------------------------**

**Vehicle Group – Total Number of Casualtiies:**

**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 over 125cc and up to 500cc',**

**'Motorcycle over 500cc',**

**'Motorcycle 50cc and under') THEN 'Bikes'**

**WHEN vehicle\_type IN ('Bus or coach (17 or more pass seats)',**

**'Minibus (8 - 16 passenger seats)') THEN 'Bus'**

**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 - 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 over 125cc and up to 500cc',**

**'Motorcycle over 500cc',**

**'Motorcycle 50cc and under') THEN 'Bikes'**

**WHEN vehicle\_type IN ('Bus or coach (17 or more pass seats)',**

**'Minibus (8 - 16 passenger seats)') THEN 'Bus'**

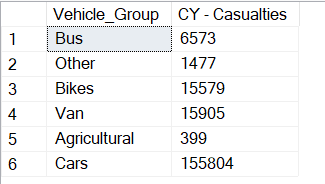
**WHEN vehicle\_type IN ('Van / Goods 3.5 tonnes mgw or under',**

**'Goods over 3.5t. and under 7.5t',**

**'Goods 7.5 tonnes mgw and over') THEN 'Van'**

**ELSE 'Other'**

**END;**

****

**CY – Casualties Monthly Trend:**

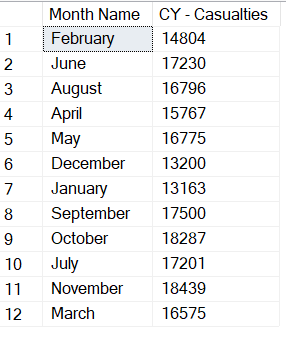
**SELECT DATENAME(MONTH, accident\_date) AS 'Month Name',**

**SUM(number\_of\_casualties) AS 'CY - Casualties'**

**FROM road\_accident**

**WHERE YEAR(accident\_date) = '2022'**

**GROUP BY DATENAME(MONTH, accident\_date);**

****

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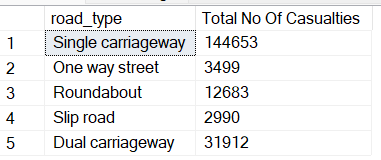
**Types of Road – Total Number of Casualties:**

**SELECT road\_type, SUM(number\_of\_casualties) AS 'Total No Of Casualties'**

**FROM road\_accident**

**WHERE YEAR(accident\_date) = '2022'**

**GROUP BY road\_type;**

****

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**Area – wise Percentage(%) and Total Number of Casualties:**

**SELECT urban\_or\_rural\_area, SUM(number\_of\_casualties) AS 'Total Number of Casualties',**

**CAST(CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2)) \* 100 /**

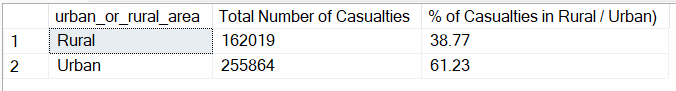
**(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2))**

**FROM road\_accident )AS DECIMAL(10,2)) AS '% of Casualties in Rural / Urban)'**

**FROM road\_accident**

**-- WHERE YEAR(accident\_date) = '2022'**

**GROUP BY urban\_or\_rural\_area;**

****

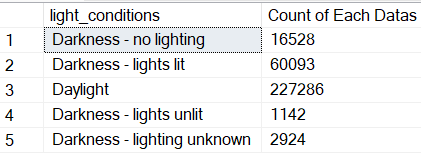
**Count of Casualties By Light Conditions:**

**SELECT light\_conditions,**

**COUNT(\*) as 'Count of Each Datas'**

**FROM road\_accident**

**GROUP BY light\_conditions;**

****

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**Percentage (%) and Segregation of Casualties by Different Light Conditions:**

SELECT

CASE

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

WHEN light\_conditions IN ('Darkness - no lighting',

'Darkness - lights lit',

'Darkness - lights unlit',

'Darkness - lighting unknown') 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 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 - no lighting',

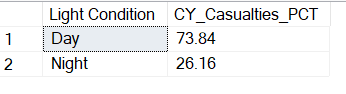
'Darkness - lights lit',

'Darkness - lights unlit',

'Darkness - lighting unknown')

THEN 'Night'

END;



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**Top 10 Local Authority with Highest Total Number of Casualties:**

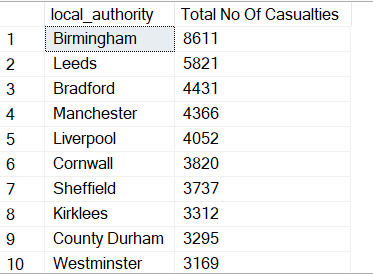
**SELECT TOP 10 local\_authority,**

**SUM(number\_of\_casualties) AS 'Total No Of Casualties'**

**FROM road\_accident**

**GROUP BY local\_authority**

**ORDER BY 'Total No of Casualties' DESC;**

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**PREPARED BY,**

**Johnson Paul D**