**ROAD ACCIDENT REPORT (MS SQL Markdown)**

**CY Casualties**

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

FROM road\_accident

WHERE YEAR(accident\_date) = '2022'



**CY Accidents**

SELECT COUNT(DISTINCT accident\_index) AS CY\_Accidents

FROM road\_accident

WHERE YEAR(accident\_date) = '2022'



**CY Fatal Casualties**

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

FROM road\_accident

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



**Fatal Casualties (total of all years)**

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

FROM road\_accident

WHERE accident\_severity = 'Fatal'



**Serious Casualties**

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

FROM road\_accident

WHERE accident\_severity = 'Serious'



/\***CY\_Slight\_Casualties**\*/

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

FROM road\_accident

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



/\***Percentage of total (for slight casualties)**\*/

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 Percentage\_of\_Total

FROM road\_accident

WHERE accident\_severity = 'Slight'



/\***Percentage of total (for serious casualties)**\*/

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 Percentage\_of\_Total

FROM road\_accident

WHERE accident\_severity = 'Serious'



/\***Percentage of total (for fatal casualties)**\*/

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 Percentage\_of\_Total

FROM road\_accident

WHERE accident\_severity = 'Fatal'



/\***Casualties by Vehicle type (year of 2022)**\*/

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 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)',

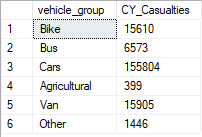
'Minibus (8 - 16 passenger seats)') THEN 'Bus'

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

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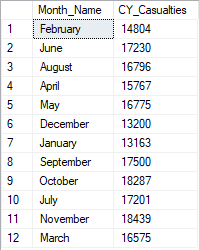
--**CY casualties vs PY casualties month by month**

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)

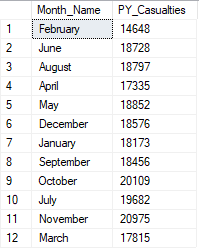


SELECT DATENAME(MONTH, accident\_date) AS Month\_Name , SUM(number\_of\_casualties) AS PY\_Casualties

FROM road\_accident

WHERE YEAR(accident\_date) = '2021'

GROUP BY DATENAME(MONTH, accident\_date)

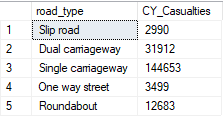


--**Casualties by road type**

SELECT road\_type, SUM(number\_of\_casualties) AS CY\_Casualties FROM road\_accident

WHERE YEAR(accident\_date) = '2022'

GROUP BY road\_type



--**Casualties by Urban/Rural (percentage 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 CY\_casualties\_Percentage\_of\_Total

FROM road\_accident

WHERE YEAR(accident\_date) = '2022'

GROUP BY urban\_or\_rural\_area



SELECT urban\_or\_rural\_area, SUM(number\_of\_casualties) AS Casualties\_in\_this\_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 Casualties\_in\_this\_area\_Percentage\_of\_Total

FROM road\_accident

GROUP BY urban\_or\_rural\_area



--**Casualties by light condition**

SELECT

CASE

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

WHEN light\_conditions IN ('Darkness - lighting unknown', 'Darkness - lights lit',

'Darkness - lights 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 CY\_Casualties\_PercentageOfTotal

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 - lights unlit', 'Darkness - no lighting') THEN 'Night'

END



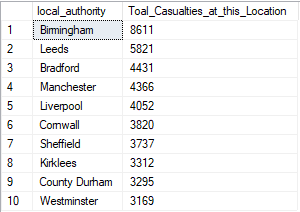
--**Top 10 locations by number of casualties**

SELECT top 10 local\_authority, SUM(number\_of\_casualties) AS Toal\_Casualties\_at\_this\_Location

FROM road\_accident

GROUP BY local\_authority

ORDER BY Toal\_Casualties\_at\_this\_Location DESC



\*Finished the data validation: checked each dashboard made before