**ROAD ACCIDENTS ANALYTICS – SQL QUERIES**

**TOTAL CASUALTIES**

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

FROM road\_accidents



**CY CASUALTIES**

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'



**TOTAL ACCIDENTS**

SELECT COUNT(DISTINCT accident\_index) AS TOTAL\_ACCIDENTS

FROM road\_accidents



**CY ACCIDENTS**

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'



**TOTAL FATAL CASUALTIES**

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

FROM road\_accidents

WHERE accident\_severity = 'Fatal'



**TOTAL FATAL CASUALTIES IN PERCENTAGE**

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

(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2)) FROM road\_accidents)

AS Fatal\_Casualties\_Percentage FROM road\_accidents

WHERE accident\_severity = 'Fatal'



**CY FATAL CASUALTIES**

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

FROM road\_accidents

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



**TOTAL SERIOUS CASUALTIES**

SELECT SUM( number\_of\_casualties) AS Total\_Serious\_Casualties

FROM road\_accidents

WHERE accident\_severity = 'Serious'



**TOTAL SERIOUS CASUALTIES IN PERCENTAGE**

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

(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2)) FROM road\_accidents)

AS Serious\_Casualties\_Percentage FROM road\_accidents

WHERE accident\_severity = 'Serious'



**CY SERIOUS CASUALTIES**

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

FROM road\_accidents

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



**TOTAL SLIGHT CASUALTIES**

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

FROM road\_accidents

WHERE accident\_severity = 'Slight'



**TOTAL SLIGHT CASUALTIES IN PERCENTAGE**

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

(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL(10,2)) FROM road\_accidents)

AS Slight\_Casualties\_Percentage FROM road\_accidents

WHERE accident\_severity = 'Slight'



**CY SLIGHT CASUALTIES**

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

FROM road\_accidents

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



**TOTAL CASUALTIES BY VEHICLE TYPE**

SELECT

CASE

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

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

WHEN vehicle\_type IN ('Motorcycle over 500cc','Motorcycle 125cc

and under','Motorcycle 50cc and under',

'Motorcycle over 125cc and up to 500cc')

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 ('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 'Others'

END AS vehicle\_group,

SUM(number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

GROUP BY

CASE

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

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

WHEN vehicle\_type IN ('Motorcycle over 500cc','Motorcycle 125cc

and under','Motorcycle 50cc and under',

'Motorcycle over 125cc and up to 500cc')

THEN 'Bike'

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

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

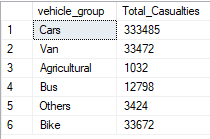
WHEN vehicle\_type IN ('Van / Goods 3.5 tonnes mgw or under',

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

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

ELSE 'Others'

END



**CY CASUALTIES BY VEHICLE TYPE**

SELECT

CASE

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

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

WHEN vehicle\_type IN ('Motorcycle over 500cc','Motorcycle 125cc

and under','Motorcycle 50cc and under',

'Motorcycle over 125cc and up to 500cc')

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 ('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 'Others'

END AS vehicle\_group,

SUM (number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY

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

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

WHEN vehicle\_type IN ('Motorcycle over 500cc','Motorcycle 125cc

and under','Motorcycle 50cc and under',

'Motorcycle over 125cc and up to 500cc')

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 ('Van / Goods 3.5 tonnes mgw or under',

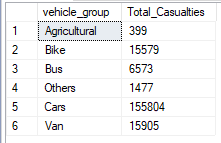
'Goods over 3.5t. and under 7.5t',

'Goods 7.5 tonnes mgw and over')

THEN 'Van'

ELSE 'Others'

END



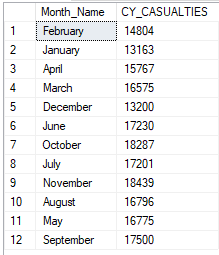
**MONTHLY TREND OF CY CASUALTIES (2022)**

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY DATENAME(MONTH, accident\_date)



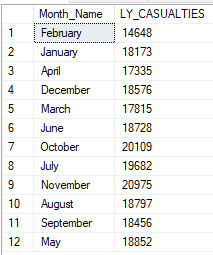
**MONTHLY TREND OF LAST YEAR CASUALTIES (2021)**

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2021'

GROUP BY DATENAME(MONTH, accident\_date)

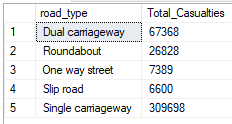


**TOTAL CASUALTIES BY ROAD TYPE**

SELECT road\_type, SUM(number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

GROUP BY road\_type



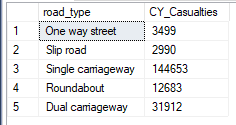
**CY CASUALTIES BY ROAD TYPE**

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY road\_type



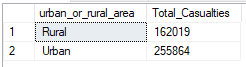
**TOTAL CASUALTIES BY AREA(URBAN/RURAL)**

SELECT urban\_or\_rural\_area, SUM(number\_of\_casualties) AS

Total\_Casualties

FROM road\_accidents

GROUP BY urban\_or\_rural\_area



**TOTAL CASUALTIES BY AREA IN PERCENTAGE**

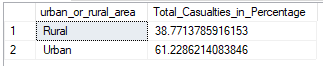
SELECT urban\_or\_rural\_area, CAST(SUM(number\_of\_casualties) AS DECIMAL (10,2)) \* 100/

(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL (10,2)) FROM road\_accidents)

AS Total\_Casualties\_in\_Percentage

FROM road\_accidents

GROUP BY urban\_or\_rural\_area



**CY CASUALTIES BY AREA(URBAN/RURAL)**

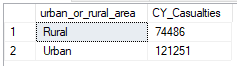
SELECT urban\_or\_rural\_area, SUM(number\_of\_casualties) AS

CY\_Casualties

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY urban\_or\_rural\_area



**CY CASUALTIES BY AREA IN PERCENTAGE**

SELECT urban\_or\_rural\_area, CAST(SUM(number\_of\_casualties) AS DECIMAL (10,2)) \* 100/

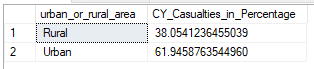
(SELECT CAST(SUM(number\_of\_casualties) AS DECIMAL (10,2)) FROM road\_accidents

WHERE YEAR(accident\_date) ='2022') AS CY\_Casualties\_in\_Percentage

FROM road\_accidents

WHERE YEAR(accident\_date)='2022'

GROUP BY urban\_or\_rural\_area



**TOTAL CASUALTIES BY LIGHT CONDITIONS**

SELECT

CASE

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

lighting unknown','Darkness -

lights unlit','Darkness – no

lighting')

THEN 'Dark'

ELSE 'Daylight'

END AS light\_conditions\_group,

SUM(number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

GROUP BY

CASE

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

lighting unknown','Darkness -

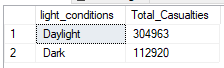
lights unlit','Darkness – no

lighting')

THEN 'Dark'

ELSE 'Daylight'

END



**CY CASUALTIES BY LIGHT CONDITIONS**

SELECT

CASE

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

lighting unknown','Darkness -

lights unlit','Darkness – no

lighting')

THEN 'Dark'

ELSE 'Daylight'

END AS light\_conditions\_group,

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

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY

CASE

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

lighting unknown','Darkness -

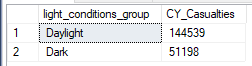
lights unlit','Darkness – no

lighting')

THEN 'Dark'

ELSE 'Daylight'

END



**TOTAL CASUALTIES BY ROAD SURFACE**

SELECT

CASE

WHEN road\_surface\_conditions IN ('Dry') THEN 'Dry'

WHEN road\_surface\_conditions IN ('Frost or ice','Snow') THEN 'Frost/Snow'

WHEN road\_surface\_conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

ELSE '(Blank)'

END AS road\_surface\_conditions,

SUM(number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

GROUP BY

CASE

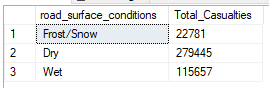
WHEN road\_surface\_conditions IN ('Dry') THEN 'Dry'

WHEN road\_surface\_conditions IN ('Frost or ice', 'Snow') THEN 'Frost/Snow'

WHEN road\_surface\_conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

ELSE '(Blank)'

END



**CY CASUALTIES BY ROAD SURFACE**

SELECT

CASE

WHEN road\_surface\_conditions IN ('Dry') THEN 'Dry'

WHEN road\_surface\_conditions IN ('Frost or ice','Snow') THEN 'Frost/Snow'

WHEN road\_surface\_conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

ELSE '(Blank)'

END AS road\_surface\_conditions,

SUM(number\_of\_casualties) AS Total\_Casualties

FROM road\_accidents

WHERE YEAR(accident\_date) = '2022'

GROUP BY

CASE

WHEN road\_surface\_conditions IN ('Dry') THEN 'Dry'

WHEN road\_surface\_conditions IN ('Frost or ice', 'Snow') THEN 'Frost/Snow'

WHEN road\_surface\_conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

ELSE '(Blank)'

END

