**ROAD ACCIDENT REPORT – SQL QUERIES**

**Total Casualties:**

SELECT sum(Number\_of\_casualties) as Total\_CY\_Casualties

from RoadAccident

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**Total CY Casualties:**

SELECT sum(Number\_of\_casualties) as Total\_CY\_Casualties

from RoadAccident

where YEAR(accident\_date) = '2022'

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**Total PY Casualties:**

SELECT sum(Number\_of\_casualties) as Total\_CY\_Casualties

from RoadAccident

where YEAR(accident\_date) = '2021'

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**Total CY Accidents:**

SELECT count(Accident\_Index ) as Total\_CY\_Accidents

from RoadAccident

WHERE YEAR(accident\_date) = '2022'

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**CY Fatal Casualties:**

SELECT sum(Number\_of\_casualties) as CY\_Fatal\_Casualties

from RoadAccident

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

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**CY Serious Casualties:**

SELECT sum(Number\_of\_casualties) as CY\_Serious\_Casualties

from RoadAccident

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

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**CY Slight Casualties:**

SELECT sum(Number\_of\_casualties) as CY\_Slight\_Casualties

from RoadAccident

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

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**Total Casualties:**

SELECT sum(Number\_of\_casualties) as Total\_Casualties

from RoadAccident

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**% of different Casualties based on Total**

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

FROM RoadAccident) AS P\_Casualties

FROM RoadAccident

WHERE accident\_severity = 'Fatal'

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**Casualties by Vehicle Type:**

SELECT

CASE

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

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

WHEN vehicle\_type IN ('Motorcycle 50cc and under' , 'Motercycle 125cc 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 ('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 RoadAccident

WHERE YEAR(accident\_date) = '2022'

GROUP BY

CASE

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

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

WHEN vehicle\_type IN ('Motorcycle 50cc and under' , 'Motercycle 125cc 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 ('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

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**Casualties by Month (Current Year):**

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

FROM RoadAccident

WHERE YEAR(accident\_date) = '2022'

GROUP BY DATENAME(MONTH, accident\_date)

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**Casualties by Road Type (Current Year):**

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

FROM RoadAccident

WHERE YEAR(accident\_date) = '2022' and Road\_Type IS NOT NULL

GROUP BY Road\_Type

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**Casualties based on Area (Current Year):**

SELECT Urban\_Rural\_Area, SUM(number\_of\_casualties) As CY\_Casualties,

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

FROM RoadAccident WHERE YEAR(accident\_date) = '2022') AS Percentage\_of\_Total

FROM RoadAccident

WHERE YEAR(accident\_date) = '2022'

GROUP BY Urban\_Rural\_Area

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**Casualties Light Conditions (Current Year):**

SELECT

CASE

WHEN Light\_Conditions IN ('Daylight') THEN 'Daylight'

WHEN Light\_Conditions IN ('Darkness - no lighting' , 'Darkness - lights lit' , 'Darkness - lights unlit' , 'Darkness - lighting unknown')

THEN 'Darkness'

END AS Light\_Conditions,

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

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

WHERE YEAR(accident\_date) = '2022') AS DECIMAL(10,2))

As CY\_Casualties\_Percentage

FROM RoadAccident

WHERE YEAR(accident\_date) = '2022'

GROUP BY

CASE

WHEN Light\_Conditions IN ('Daylight') THEN 'Daylight'

WHEN Light\_Conditions IN ('Darkness - no lighting' , 'Darkness - lights lit' , 'Darkness - lights unlit' , 'Darkness - lighting unknown')

THEN 'Darkness'

END

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**Casualties based on Location (Top 10):**

SELECT TOP 10 Local\_Authority\_District, SUM(number\_of\_casualties) AS Total\_Casualties

FROM RoadAccident

GROUP BY Local\_Authority\_District

ORDER BY Total\_Casualties DESC

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