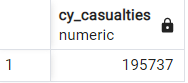
**ROAD ACCIDENT ANALYSIS SQL QUERIES**

**1. CY Casualties:**

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022';

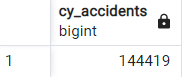


**2. CY Accidents:**

SELECT count (distinct accident\_index) AS CY\_Accidents

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022';

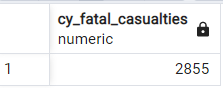


**3. CY Fatal Casualties:**

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022' and accident\_severity = 'Fatal';

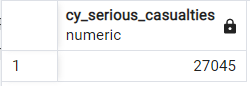


**4. CY Serious Casualties:**

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022' and accident\_severity = 'Serious';

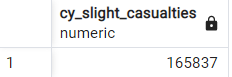


**5. CY Slight Casualties:**

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022' and accident\_severity = 'Slight';



**6. CY Casualties by Vehicle Type:**

SELECT

CASE

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'

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

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

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 ('Agricultural vehicle') THEN 'Agricultural'

ELSE 'other'

END AS vehicle\_group,

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022'

GROUP BY

CASE

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'

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

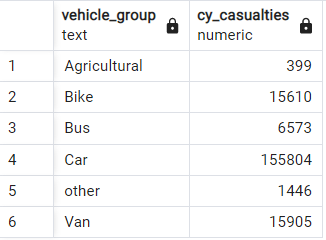
WHEN vehicle\_type in ('Bus or coach (17 or more pass seats)','Minibus (8 - 16 passenger seats)') THEN 'Bus'

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 ('Agricultural vehicle') THEN 'Agricultural'

ELSE 'other'

END

****

**7. Casualties by Month - Year 2022**

SELECT to\_char(accident\_date,'Month') AS Month\_Name, SUM(number\_of\_casualties) AS CY\_Casualties

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date)= '2022'

GROUP BY to\_char(accident\_date,'Month')



**8.Casualties by Month - Year 2021**

SELECT to\_char(accident\_date,'Month') AS Month\_Name,SUM(number\_of\_casualties) AS CY\_Casualties

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = ‘2021’

GROUP BY to\_char(accident\_date,'Month')



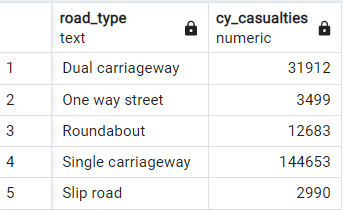
**9. CY CASualties by Road Type**

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

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022'

GROUP BY road\_type



**10. CY Casualties by Urban or Rural Area**

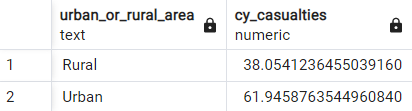
SELECT urban\_or\_rural\_area, SUM(number\_of\_casualties) \*100 /

(SELECT SUM (number\_of\_casualties) FROM road\_accident WHERE EXTRACT(YEAR FROM accident\_date)= '2022')AS CY\_CASualties

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022'

GROUP BY urban\_or\_rural\_area

****

**11. CY Casualties by Light Condition**

SELECT

CASE

WHEN light\_conditions in ('Darkness - lighting unknown','Darkness - lights lit','Darkness - lights unlit','Darkness - no lighting') THEN 'Dark'

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

END AS Light\_condition,

ROUND (SUM (number\_of\_casualties) \* 100 /

(SELECT SUM (number\_of\_casualties)

FROM road\_accident WHERE EXTRACT(YEAR FROM accident\_date) = '2022'),2) AS CY\_Casualties

FROM road\_accident

WHERE EXTRACT (YEAR FROM accident\_date) = '2022'

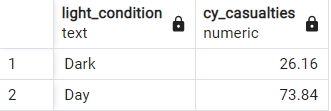
GROUP BY

CASE

WHEN light\_conditions in ('Darkness - lighting unknown','Darkness - lights lit','Darkness - lights unlit','Darkness - no lighting') THEN 'Dark'

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

END

****

**12. Top 10 Locations by Number of Casualties**

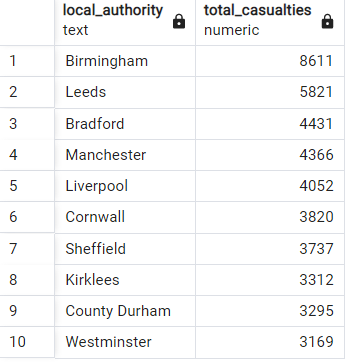
SELECT local\_authority, SUM (number\_of\_casualties) AS Total\_Casualties

FROM road\_accident

GROUP BY local\_authority

order by Total\_CASualties desc

limit 10;

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