ROAD ACCIDENT REPORT SQL QUERIES

CY Casualties

```
SELECT SUM(number_of_casualties) AS CY_Casualties
FROM road_accident
WHERE YEAR(accident_date) = '2022'
```

	CY_Casualties
1	195737

CY Accidents

```
SELECT COUNT(DISTINCT accident_index) AS CY_Casualties
FROM road_accident
WHERE YEAR(accident_date) = '2022'
```

	CY_Casualties
1	144419

CY Fatal Casualties

```
SELECT SUM(number_of_casualties) AS CY_Fatal_Casualties
FROM road_accident
WHERE YEAR(accident_date) = '2022' AND accident_severity = 'Fatal'
```

	CY_Fatal_Casualties
1	2855

CY Serious Casualties

```
SELECT SUM(number_of_casualties) AS CY_Serious_Casualties
FROM road_accident
WHERE YEAR(accident_date) = '2022' AND accident_severity = 'Serious'
```

	CY_Serious_Casualties
1	27045

CY Slight Casualties

```sql
SELECT SUM(number_of_casualties) AS CY_Slight_Casualties
FROM road_accident
WHERE YEAR(accident_date) = '2022' AND accident_severity = 'Slight'
```

	CY_Slight_Casualties
1	165837

Casualties by Vehicle type

```sql
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
```

	vehicle_group	CY_Casualties
1	Bus	6573
2	Other	1446
3	Bike	15610
4	Van	15905
5	Agricultural	399
6	Cars	155804

CY Casualties Monthly Trend

```sql
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)
```

	Month_Name	CY_Casualties
1	February	14804
2	June	17230
3	August	16796
4	April	15767
5	May	16775
6	December	13200
7	January	13163
8	September	17500
9	October	18287
10	July	17201
11	November	18439
12	March	16575

Casualties by Road Type

```sql
SELECT road_type, SUM(number_of_casualties) AS CY_Casualties FROM road_accident
WHERE YEAR(accident_date) = '2022'
GROUP BY road_type
```

	road_type	CY_Casualties
1	Single carriageway	144653
2	One way street	3499
3	Roundabout	12683
4	Slip road	2990
5	Dual carriageway	31912

Casualties by Urban/Rural

```sql
SELECT urban_or_rural_area, CAST(SUM(number_of_casualties) AS DECIMAL(10,2)) * 100 /
```

```sql
(SELECT CAST(SUM(number_of_casualties) AS DECIMAL(10,2)) FROM road_accident WHERE
YEAR(accident_date) ='2022')
AS PCT
FROM road_accident
WHERE YEAR(accident_date) ='2022'
GROUP BY urban_or_rural_area
```

	urban_or_rural_area	PCT
1	Rural	38.0541236455039
2	Urban	61.9458763544960

Casualties by light condition

```sql
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
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;
```

	Light_Condition	CY_Casualties
1	Day	73.84
2	Night	26.16

TOP 10 Locations by No of Casualties

```sql
SELECT TOP 10 local_authority, SUM(number_of_casualties) AS Total_Casualties
FROM road_accident
GROUP BY local_authority
ORDER BY Total_Casualties DESC
```

	local_authority	Total_Casualties
1	Birmingham	8611
2	Leeds	5821
3	Bradford	4431
4	Manchester	4366
5	Liverpool	4052
6	Cornwall	3820
7	Sheffield	3737
8	Kirklees	3312
9	County Durham	3295
10	Westminster	3169