ROAD ACCIDENT REPORT POSTGRESQL QUERIES

CY CASUALTIES

```
SELECT SUM(number_of_casualties) AS CY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022';
```

	cy_casualties bigint
1	195737

CY ACCIDENT

```
SELECT COUNT(DISTINCT accident_index) AS CY_Accident
FROM road_accidents
WHERE accident_date BETWEEN '2022-01-01' AND '2022-12-31';
```

	cy_accident bigint
1	144419

CY_FATAL_CASUALTIES

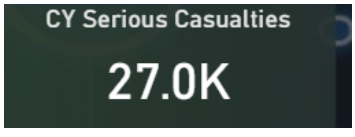
```
SELECT SUM(number_of_casualties) AS CY_Fatal_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022' AND accident_severity = 'Fatal';
```

	cy_fatal_casualties bigint
1	2855

CY_SERIOUS_CASUALTIES

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

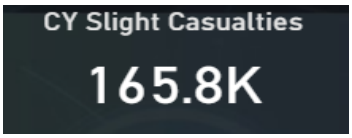
	cy_fatal_casualties bigint
1	27045



CY_SLIGHT_CASUALTIES

```
SELECT SUM(number_of_casualties) AS CY_Slight_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022' AND accident_severity = 'Slight';
```

	cy_slight_casualties bigint
1	165837



CASUALTIES BY VEHICLE TYPE

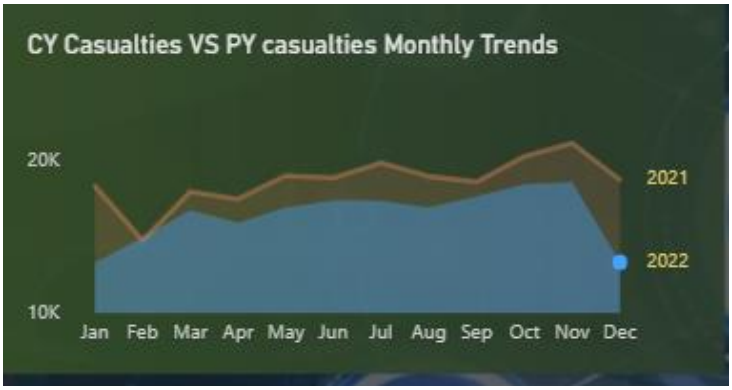
```
SELECT
      CASE
            WHEN vehicle_type IN('Agricultural vehicle') THEN 'Agricultural'
            WHEN vehicle_type IN('Car','Taxi/Private hire car') THEN 'Cars'
           WHEN vehicle_type IN('Motorcycle 125cc and under','Motorcycle 50cc and
    under','Motorcycle over 500cc') THEN 'Bike'
           WHEN vehicle_type IN('Bus or coach (17 or more pass seats)','Minibus (8 - 16 passenger
    seats)') THEN 'Bus'
           WHEN vehicle_type IN('Goods 7.5 tonnes mgw and over','Good over 3.5t. and 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_accidents
--WHERE EXTRACT(YEAR FROM 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 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('Goods 7.5 tonnes mgw and over','Good over 3.5t. and 7.5t','Van
    / Goods 3.5 tonnes  mgw or under') THEN 'Van'
            ELSE 'Other'
     END
```

	vehicle_group text	cy_casualties bigint
1	Agricultural	1032
2	Bike	29205
3	Bus	12798
4	Cars	333485
5	Other	11295
6	Van	30068

PY CASUALTIES MONTHLY TRENDS

```
SELECT TO_CHAR(accident_date,'MONTH') AS month_name, SUM(number_of_casualties)
AS PY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2021'
GROUP BY month_name;
```

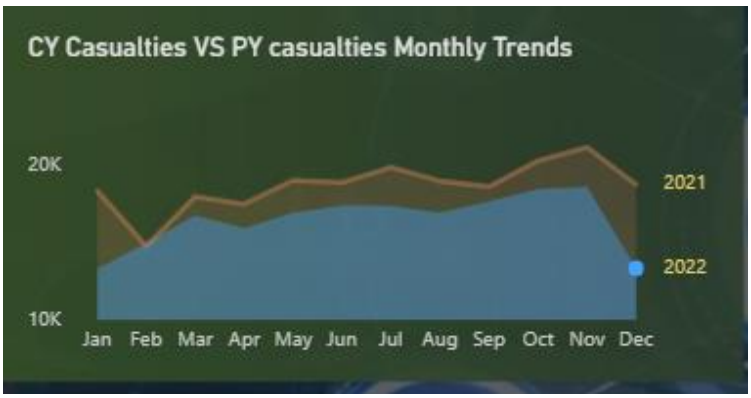
	month_name text	py_casualties bigint
1	APRIL	17335
2	AUGUST	18797
3	DECEMBER	18576
4	FEBRUARY	14648
5	JANUARY	18173
6	JULY	19682
7	JUNE	18728
8	MARCH	17815
9	MAY	18852
10	NOVEMBER	20975
11	OCTOBER	20109
12	SEPTEMBER	18456



CY CASUALTIES MONTHLY TRENDS

```
SELECT TO_CHAR(accident_date,'MONTH') AS month_name, SUM(number_of_casualties)
AS CY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022'
GROUP BY month_name;
```

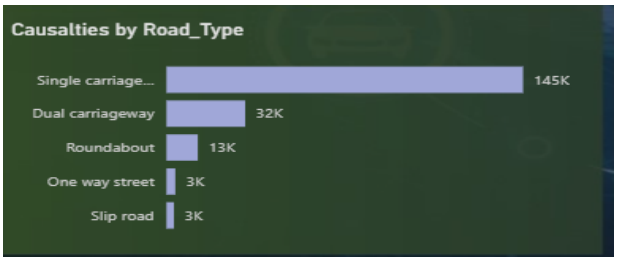
	month_name text	cy_casualties bigint
1	APRIL	15767
2	AUGUST	16796
3	DECEMBER	13200
4	FEBRUARY	14804
5	JANUARY	13163
6	JULY	17201
7	JUNE	17230
8	MARCH	16575
9	MAY	16775
10	NOVEMBER	18439
11	OCTOBER	18287
12	SEPTEMBER	17500



CY CASUALTIES BY ROAD TYPE

```
SELECT road_type, SUM(number_of_casualties) AS CY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022'
GROUP BY road_type;
```

	road_type text	cy_casualties bigint
1	Dual carriageway	31912
2	One way street	3499
3	Roundabout	12683
4	Single carriagew...	144653
5	Slip road	2990

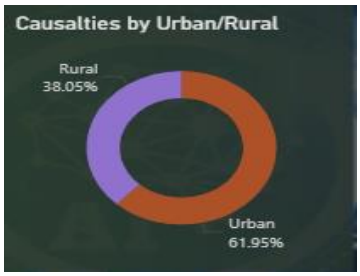


CY CASUALTIES BY URBAN OR RURAL AREA

```
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 EXTRACT(YEAR FROM accident_date) = '2022')  AS PCT
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022'
GROUP BY urban_or_rural_area;
```

	urban_or_rural_area text	sum bigint	pct numeric
1	Rural	74486	38.0541236455039160
2	Urban	121251	61.9458763544960840

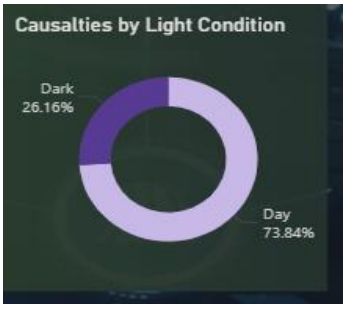


CASUALTIES BY LIGHT CONDITION

```
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 'Dark'
        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_accidents WHERE      EXTRACT(YEAR FROM accident_date) = '2022') AS
    DECIMAL(10, 2))
        AS CY_Casualties_PCT
FROM road_accidents
```

```
WHERE EXTRACT(YEAR FROM 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 'Dark'
        END
```

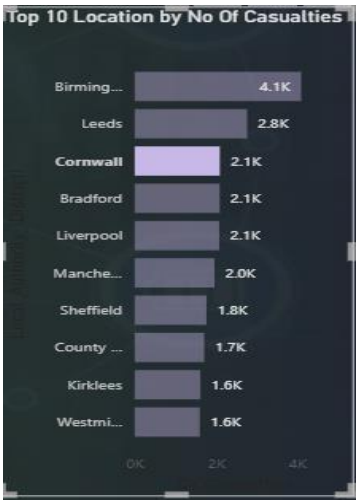
	light_condition text	cy_casualties_pct numeric (10,2)
1	Dark	26.16
2	Day	73.84



TOP 10 LOCATION BY NO. OF CASUALTIES

```
SELECT local_authority_district, SUM(number_of_casualties) AS Total_casualties
FROM road_accidents
GROUP BY local_authority_district
ORDER BY Total_casualties DESC
LIMIT 10;
```

	local_authority_district text	total_casualties bigint
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



CY CASUALTIES AND CY ACCIDENT BY ROAD SURFACE CONDITION

```
SELECT
        CASE
            WHEN road_surface_conditions IN('Dry') THEN 'Dry'
            WHEN road_surface_conditions IN('Frost or ice','Snow') THEN 'Snow'
            ELSE 'Wet'
       END AS Road_surface_group,
       COUNT(DISTINCT accident_index) AS CY_Accident,
```

```
        SUM(number_of_casualties) AS CY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022'
GROUP BY
        CASE
            WHEN road_surface_conditions IN('Dry') THEN 'Dry'
            WHEN road_surface_conditions IN('Frost or ice','Snow') THEN 'Snow'
            ELSE 'Wet'
        END
```

	road_surface_group text	cy_accident bigint	cy_casualties bigint
1	Dry	98684	131976
2	Snow	9762	13218
3	Wet	35973	50543

CY CASUALTIES AND CY ACCIDENT BY WEATHER CONDITION

```
SELECT
        CASE
            WHEN weather_conditions IN('Fine + high winds','Fine no high winds') THEN 'Fine'
            WHEN weather_conditions IN('Raining + high winds','Raining no high winds')
           THEN 'Rain'
            WHEN weather_conditions IN('Fog or mist','Snowing + high winds') THEN 'Snow /
           Fog'
            ELSE 'Other'
        END AS weather_conditions_group,
        COUNT(DISTINCT accident_index) AS CY_Accident,
        SUM(number_of_casualties) AS CY_Casualties
FROM road_accidents
WHERE EXTRACT(YEAR FROM accident_date) = '2022'
GROUP BY
        CASE
            WHEN weather_conditions IN('Fine + high winds','Fine no high winds') THEN
           'Fine'
            WHEN weather_conditions IN('Raining + high winds','Raining no high winds')
           THEN 'Rain'
            WHEN weather_conditions IN('Fog or mist','Snowing + high winds') THEN 'Snow /
           Fog'
            ELSE 'Other'
        END
```

	weather_conditions_group text	cy_accident bigint	cy_casualties bigint
1	Fine	117021	157987
2	Other	7223	9749
3	Rain	18989	26314
4	Snow / Fog	1186	1687