MySQL Analys Report

```
SELECT*FROM Road_Accident

--CY Casualties--

SELECT
SUM(Number_of_Casualties) AS CY_Casualties
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2022'
```

	CY_Casualties
1	195737

```
--CY Accident--

SELECT
COUNT( Accident_Index) AS CY_Accident
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2022'
```

	CY_Accident
1	94766

```
--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
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

```sql
--CY Slight Casualties--

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

```sql
--CY Casualties vs PY Casualties  Monthly Trend--

SELECT
DATENAME(MONTH,Accident_Date),
SUM(Number_of_casualties)
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2021'
GROUP BY DATENAME(MONTH,Accident_Date)
```

	(No column name)	(No column name)
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

```sql
--Casualties by Road Type--

SELECT
Road_Type,
SUM(Number_of_Casualties) AS CY_Casualties
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2022' AND Road_Type IS NOT NULL
GROUP BY Road_Type
```

	Road_Type	CY_Casualties
1	Single carriageway	144653
2	One way street	3499
3	Roundabout	12683
4	Slip road	2221
5	Dual carriageway	31912

```
-- Casualties by Urban/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_Accident
WHERE YEAR(Accident_Date) = '2022') AS CY_Casualties
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2022'
GROUP BY Urban_or_Rural_Area
```

	Urban_or_Rural_Area	CY_Casualties
1	Rural	38.0541236455039
2	Urban	61.9458763544960

```
--Casualties  by Light Condition--

SELECT
CASE
WHEN Light_Conditions IN ('Daylight') THEN 'Day'
WHEN Light_Conditions IN ('Darkness - lights lit','Darkness - lighting unknown','Darkness
- no lighting','Darkness - lights unlight') THEN 'Night'
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 Road_Accident
WHERE YEAR(Accident_Date) = '2022') AS DECIMAL(10,2))
AS CY_Casualties_PCT
FROM Road_Accident
WHERE YEAR(Accident_Date) = '2022'
AND  Light_Conditions IN ('Darkness - lights lit','Darkness - lighting unknown','Darkness
- no lighting','Darkness - lights unlight','Daylight')
  GROUP BY
CASE
WHEN Light_Conditions IN ('Daylight') THEN 'Day'
WHEN Light_Conditions IN ('Darkness - lights lit','Darkness - lighting unknown','Darkness
```

```
- no lighting','Darkness - lights unlight') THEN 'Night'
  END
```

	Light_Conditions	CY_Casualties_PCT
1	Day	73.84
2	Night	25.82

```
--Location by Number  of  Casualties--

SELECT TOP 10
Local_Authority_District,
SUM(Number_of_Casualties) AS Total_Casualties
FROM Road_Accident
GROUP BY Local_Authority_District
ORDER BY  Total_Casualties DESC
```

	Local_Authority_District	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