**ROAD ACCIDENT SQL QUERY**

1. Primary KPIS:

SELECT \* FROM road accident.

SELECT SUM (number of casualties) As CY Casualties

FROM road accident

WHERE YEAR (accident date) = '2022'

CY Casualties

195737

2.

SELECT COUNT (DISTINCT accident index) As CY Accidents

FROM road accident

WHERE YEAR (accident date) = '2022'

CY Accidents

144419

3. 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

4. SELECT SUM (number of casualties) As CY Serios Casualties

FROM road accident

WHERE YEAR (accident date) = '2022' AND accident severity = 'Serious'

CY Serios Casualties

27045

4. SELECT SUM (number of casualties) As CY Slight Casualties

FROM road accident

WHERE YEAR (accident date) = '2022' AND accident severity = 'Slight'

CY Slight Casualties

165837

5. SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) \*100/

(SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) FROM road accident) AS PCT

FROM road accident

WHERE YEAR (accident date) = '2022' AND accident severity = 'Slight'

PCT

39.6850314561731

6. SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) \*100/

(SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) FROM road accident) AS PCT

FROM road accident

WHERE YEAR (accident date) = '2022' AND accident severity = 'Fatal'

PCT

0.6832055862526

7. SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) \*100/

(SELECT CAST (SUM (number of casualties) AS DECIMAL (10,2)) FROM road accident) AS PCT

FROM road accident

WHERE YEAR (accident date) = '2022' AND accident severity = 'Serious'

PCT

6.4719072084770

Casualties By Vehicle TYPE:

1. SELECT \* FROM road accident.

SELECT

CASE

WHEN Vehicle type IN ('Agricultural vehicle') THEN

'Agricultural'

WHEN Vehicle type IN ('Car’, ‘Taxi/Private hire car') THEN.

'Car'

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 ('Goods 7.5 tones mgs and over’, ‘Goods over 3.5t. and under 7.5t') THEN.

'Van'

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 ‘Others'

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

'Car'

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 ('Goods 7.5 tonnes mgw and over’, ‘Goods over 3.5t. and under 7.5t') THEN.

'Van'

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 tones mgs and over’, ‘Goods over 3.5t. and under 7.5t',

'Van / Goods 3.5 tones mgs or under') THEN

'Van'

ELSE ‘Others'

END

Result: Vehicle Group CY Casualties

Bus 6573

Others 1446

Car 155804

Bike 15610

Van 15905

Agricultural 399

1. SELECT \* FROM road accident.

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)

Result: Month Name CY Casualties

February 14804

June 17230

August 16796

April 15767

May 16775

December 13200

January 13163

September 17500

October 18287

July 17201

November 18439

March 16575

3. SELECT \* FROM road accident

SELECT road type, SUM (number of Casualties) As CY Casualties FROM road accident.

WHERE YEAR (accident date) = '2022'

GROUP BY road type

Result: road type CY Casualties

Single carriageway 144653

One way street 3499

Roundabout 12683

Slip road 2990

Dual carriageway 31912

4. SELECT \* FROM road accident

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 PCT

FROM road accident

WHERE YEAR (accident date) = '2022'

GROUP BY urban or rural area

Result: urban or rural area PCT

Rural 38.0541236455039

Urban 61.9458763544960

5. SELECT \* FROM road accident

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 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'

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

Result: Light Conditions CY Casualties PCT

Day 73.84

Night 26.16

6.