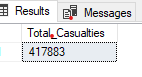
ROAD ACCIDENT ANALYSIS SQL QUERIES

TOTAL CASUALTIES

SELECT SUM(Number\_of\_Casualties) AS Total\_Casualties

FROM [Road\_Accident Data]

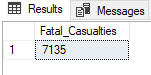


FATAL SEVERITY

SELECT SUM(Number\_of\_Casualties) AS Fatal\_Casualties

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Fatal'

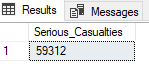


SERIOUS SEVERITY

SELECT SUM(Number\_of\_Casualties) AS Serious\_Casualties

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Serious'



SLIGHT SEVERITY

SELECT SUM(Number\_of\_Casualties) AS Slight\_Casualties

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Slight'



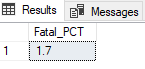
FATAL SEVERITY PERCENTAGE OF TOTAL

SELECT CAST(CAST(SUM(Number\_of\_Casualties) AS DECIMAL(10,2))\*100/

(SELECT CAST(SUM(Number\_of\_Casualties) AS DECIMAL (10,2 ))FROM [Road\_Accident Data]) AS DECIMAL(3,1)) AS Fatal\_PCT

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Fatal'



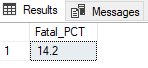
SERIOUS SEVERITY PERCENTAGE OF TOTAL

SELECT CAST(CAST(SUM(Number\_of\_Casualties) AS DECIMAL(10,2))\*100/

(SELECT CAST(SUM(Number\_of\_Casualties) AS DECIMAL (10,2 ))FROM [Road\_Accident Data]) AS DECIMAL(3,1)) AS Serious\_PCT

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Serious'



SLIGHT SEVERITY PERCENTAGE OF TOTAL

SELECT CAST(CAST(SUM(Number\_of\_Casualties) AS DECIMAL(10,2))\*100/

(SELECT CAST(SUM(Number\_of\_Casualties) AS DECIMAL (10,2 ))FROM [Road\_Accident Data]) AS DECIMAL(3,1)) AS Slight\_PCT

FROM [Road\_Accident Data]

WHERE Accident\_Severity = 'Slight'



TOTAL CASUALTIES BY VEHICLE TYPE

SELECT

CASE

WHEN Vehicle\_Type IN ('Agricultural vehicle') THEN 'Agriculture'

WHEN Vehicle\_Type IN ('Taxi/Private hire car', '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 ('Van / Goods 3.5 tonnes mgw or under','Goods over 3.5t. and under 7.5t','Goods 7.5 tonnes mgw and over') THEN 'Van'

WHEN Vehicle\_Type IN ('Motorcycle over 500cc','Motorcycle 50cc and under','Motorcycle 125cc and under','Motorcycle over 125cc and up to 500cc') THEN 'Motocycle'

ELSE 'Other'

END AS Vehicle\_Group,

SUM(Number\_of\_Casualties) AS Casualties

FROM [Road\_Accident Data]

GROUP BY

CASE

WHEN Vehicle\_Type IN ('Agricultural vehicle') THEN 'Agriculture'

WHEN Vehicle\_Type IN ('Taxi/Private hire car', 'Car') THEN 'Car'

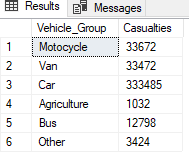
WHEN Vehicle\_Type IN ('Bus or coach (17 or more pass seats)','Minibus (8 - 16 passenger seats)') THEN 'Bus'

WHEN Vehicle\_Type IN ('Van / Goods 3.5 tonnes mgw or under','Goods over 3.5t. and under 7.5t','Goods 7.5 tonnes mgw and over') THEN 'Van'

WHEN Vehicle\_Type IN ('Motorcycle over 500cc','Motorcycle 50cc and under','Motorcycle 125cc and under','Motorcycle over 125cc and up to 500cc') THEN 'Motocycle'

ELSE 'Other'

END



CY VS PY MONTHLY TREND

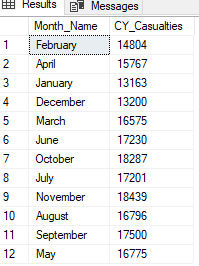
SELECT DATENAME(MONTH,Accident\_Date) AS Month\_Name,

SUM(Number\_of\_Casualties) AS CY\_Casualties

FROM [Road\_Accident Data]

WHERE YEAR(Accident\_Date)= '2022'

GROUP BY DATENAME(MONTH,Accident\_Date)



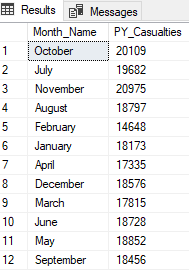
SELECT DATENAME(MONTH,Accident\_Date) AS Month\_Name,

SUM(Number\_of\_Casualties) AS PY\_Casualties

FROM [Road\_Accident Data]

WHERE YEAR(Accident\_Date)= '2021'

GROUP BY DATENAME(MONTH,Accident\_Date)

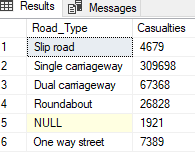


CASUALITIES BY ROAD TYPE

SELECT Road\_Type, SUM(Number\_of\_Casualties)AS Casualties

FROM [Road\_Accident Data]

GROUP BY Road\_Type



CASUALTIES BY ROAD SURFACE

SELECT

CASE

WHEN Road\_Surface\_Conditions IN ('Dry') THEN 'Dry'

WHEN Road\_Surface\_Conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

WHEN Road\_Surface\_Conditions IN ('Frost or ice','Snow') THEN 'Ice'

ELSE 'Other'

END AS Road\_Surface\_Conditions\_Group,

SUM(Number\_of\_Casualties) as Casualties

FROM [Road\_Accident Data]

GROUP BY

CASE

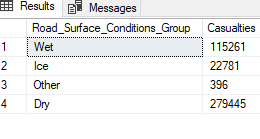
WHEN Road\_Surface\_Conditions IN ('Dry') THEN'Dry'

WHEN Road\_Surface\_Conditions IN ('Wet or damp','Flood over 3cm. deep') THEN 'Wet'

WHEN Road\_Surface\_Conditions IN ('Frost or ice','Snow') THEN 'Ice'

ELSE 'Other'

END



CASUALTIES BY LIGHT CONDITIONS

SELECT

CASE

WHEN Light\_Conditions IN ('Darkness - lighting unknown','Darkness - lights lit', 'Darkness - lights unlit','Darkness - no lighting') THEN 'Night'

ELSE 'Day'

END AS Light\_Condition\_Group,

SUM(Number\_of\_Casualties) as Casualties

FROM [Road\_Accident Data]

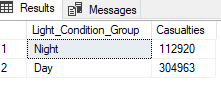
GROUP BY

CASE

WHEN Light\_Conditions IN ('Darkness - lighting unknown','Darkness - lights lit', 'Darkness - lights unlit','Darkness - no lighting') THEN 'Night'

ELSE 'Day'

END



CASUALTIES BY URBAN OR RURAL AREA

SELECT Urban\_or\_Rural\_Area,

SUM (Number\_of\_Casualties) AS Casualties

FROM [Road\_Accident Data]

GROUP BY Urban\_or\_Rural\_Area

