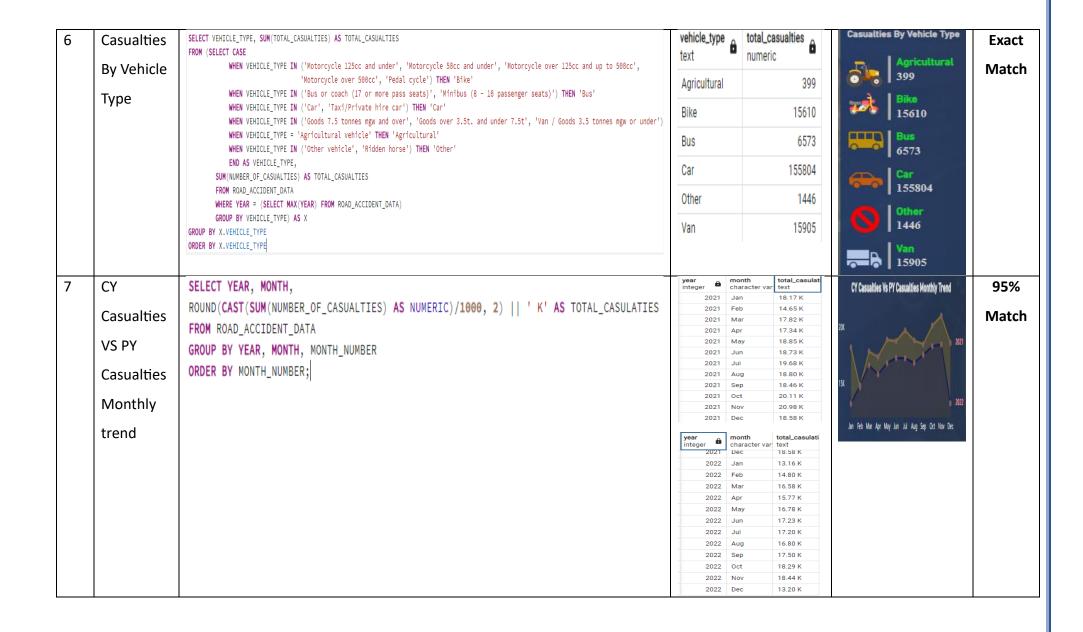
TEST DOCUMENT

Name	Portfolio Project			
Report Name	Road Accident Analytics Dashboard			
Developer Name	Md. Touhiduzzaman			
Development Tool	Power BI			

SL	Name	Query	SQL Result	Power BI Report	Result
1	KPI- Total	find current year total number of casualties and compare increase or decrease percentage CY vs PY SELECT TOTAL_CY_CASUALTIES, CY_VS_PY_PCT	total_cy_casualties cy_vs_py_pct	Total CY Casualties	Exact
	CY	FROM (SELECT ROUND(CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/1000, 2) ' K' AS TOTAL_CY_CASUALTIES	text text	195.74K	Match
	Casualties	FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)) AS X CROSS JOIN (SELECT ROUND((CAST(SUM(NUMBER_OF_CASUALTIES)-(SELECT SUM(NUMBER_OF_CASUALTIES)) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1) AS NUMERIC)/ (SELECT SUM(NUMBER_OF_CASUALTIES) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1))*100, 2) ' %' AS CY_VS_PY_PCT FROM ROAD_ACCIDENT_DATA	195.74 K -11.89 %	-11.89%	
		WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)) AS Y;			

2	KPI- Total CY Accident	SELECT TOTAL_CY_ACCIDENTS, CY_VS_PY_PCT FROM (SELECT ROUND(CAST(COUNT(ACCIDENT_INDEX) AS NUMERIC)/1000, 2) ' K' AS TOTAL_CY_ACCIDENTS FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)) AS X CROSS JOIN (SELECT ROUND((CAST(COUNT(ACCIDENT_INDEX)-(SELECT COUNT(ACCIDENT_INDEX)) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1) AS NUMERIC)/ (SELECT COUNT(ACCIDENT_INDEX) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1))*100, 2) ' %' AS CY_VS_PY_PCT FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)) AS Y;	total_cy_accidents text 144.42 K	cy_vs_py_pct text	Total CY Accidents 144.42K -11.70%	Exact Match
3	KPI- Total Fatal Casualties	SELECT TOTAL_FATAL_CASUALTIES, CY_VS_PY_PCT FROM (SELECT ROUND(CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/1000, 2) ' K' AS TOTAL_FATAL_CASUALTIES FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) AND ACCIDENT_SEVERITY = 'Fatal') AS X CROSS JOIN (SELECT ROUND((CAST(SUM(NUMBER_OF_CASUALTIES)-(SELECT SUM(NUMBER_OF_CASUALTIES)) FROM ROAD_ACCIDENT_DATA WHERE ACCIDENT_SEVERITY = 'Fatal' AND YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1) AS NUMERIC)/ (SELECT SUM(NUMBER_OF_CASUALTIES) FROM ROAD_ACCIDENT_DATA WHERE ACCIDENT_SEVERITY = 'Fatal' AND YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1))*100, 2) ' %' FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) AND ACCIDENT_SEVERITY = 'Fatal') AS Y;	total_fatal_casualties text 2.86 K	cy_vs_py_pct text -33.29 %	CY Fatal Casualties 2.86K -33.29%	Exact Match

4	KPI- Total	SELECT TOTAL_SERIOUS_CASUALTIES, CY_VS_PY_PCT FROM (SELECT ROUND(CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/1000, 2) ' K' AS TOTAL_SERIOUS_CASUALTIES	total_serious_casualties	cy_vs_py_pct	CY Serious Casualties	Exact
	Serious	FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) AND ACCIDENT_SEVERITY = 'Serious') AS X CROSS TOTAL (SELECT ROLLING (CAST (SIM/AUMRED DE CASUALTIES) (SELECT SIM/AUMRED DE CASUALTIES)	text	text	27.05K	Match
	Casualties		27.05 K	-16.18 %	-16.18%	
5	KPI- Total	SELECT TOTAL_SLIGHT_CASUALTIES, CY_VS_PY_PCT FROM (SELECT ROUND(CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/1000, 2) ' K' AS TOTAL_SLIGHT_CASUALTIES	total_slight_casualties _	cy_vs_py_pct	CY Slight Casualties	Exact
	Slight	FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) AND ACCIDENT_SEVERITY = 'Slight') AS X	text	text	165.84K	Match
	CROSS JOIN (SELECT ROUND((CAST(SUM(NUMBER_OF_CASUALTIES)-(SELECT SUM(NUMBER_OF_CASUALTIES)) FROM ROAD_ACCIDENT_DATA WHERE ACCIDENT_SEVERITY = 'Slight' AND YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1) AS NUMERIC)/ (SELECT SUM(NUMBER_OF_CASUALTIES) FROM ROAD_ACCIDENT_DATA WHERE ACCIDENT_SEVERITY = 'Slight' AND YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)-1))*100, 2) ' % FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) AND ACCIDENT_SEVERITY = 'Slight') AS Y;	165.84 K	-10.65 %	100.04K -10.65%		



8	Casualties By Urban/ Rural	SELECT URBAN_OR_RURAL_AREA, ROUND((CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/(SELECT SUM(NUMBER_OF_CASUALTIES) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)))*100, 2) ' %' AS PCT FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) GROUP BY URBAN_OR_RURAL_AREA;	urban_or_rural_area character varying (50) Rural Urban	pct text 38.05 % 61.95 %	Rural 38.05% Urban 61.95%	Exact Match
9	Casualties By Road Type	SELECT ROAD_TYPE, TOTAL_CASUALTIES ' K' AS TOTAL_CASUALTIES FROM (SELECT ROAD_TYPE, ROUND((CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/1000)) AS TOTAL_CASUALTIES FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) GROUP BY ROAD_TYPE ORDER BY TOTAL_CASUALTIES DESC) AS X;	Single carriageway Dual carriageway Roundabout One way street	total_casualties text 145 K 32 K 13 K 3 K	Casualties By Road Type Single carriageway 32K Roundabout 13K One way street 3K Slip road 3K	Exact Match
10	Casualties By Light Condition	SELECT CASE WHEN LIGHT_CONDITIONS = 'Daylight' THEN 'Day' ELSE 'Light' END AS LIGHT_CONDITION, ROUND((CAST(SUM(NUMBER_OF_CASUALTIES) AS NUMERIC)/(SELECT SUM(NUMBER_OF_CASUALTIES) FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA)))*100, 2) ' %' AS PCT FROM ROAD_ACCIDENT_DATA WHERE YEAR = (SELECT MAX(YEAR) FROM ROAD_ACCIDENT_DATA) GROUP BY LIGHT_CONDITION;	text Day	pct text 73.84 % 26.16 %	Casualties By Light Condition Light 26.16% Day 73.84%	Exact Match

Test Result:

Total Tests	10
Pass	10
Fail	00