

FULL REPORT ON ROAD ACCIDENT FOR THE YEAR 2021 AND 2022.

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About Dataset

Context:

Clients wants to create a Road Accident Dashboard for the year 2021 and 2022 so they can have insight on the below requirements-

- ❖ **Primary KPI** - Total Casualties taken place after the accident.
- ❖ **Primary KPI's** - Total Casualties & percentage of total with respect to accident severity and maximum casualties by type of vehicle.
- ❖ **Secondary KPI's** - Total Casualties with respect to vehicle type.
- ❖ Monthly trend showing comparison of casualties for current year and previous year.
- ❖ Maximum casualties by road type.
- ❖ Distribution of total casualties by road surface.
- ❖ Relation between casualties by Area / Location & by Day/ Night.

STAKEHOLDERS

- ❖ Ministry of Transport
- ❖ Road Transport Department
- ❖ Police Force
- ❖ Emergency Services Department
- ❖ Road Safety Corps
- ❖ Transport Operators
- ❖ Traffic Management Agencies
- ❖ Public
- ❖ Media

PROCESS:

Loading data packages in Excel

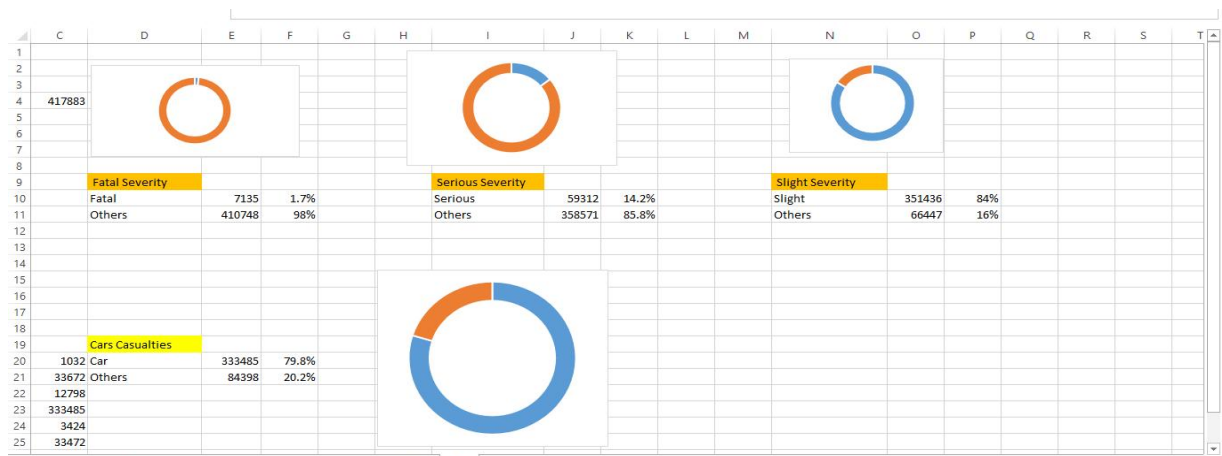
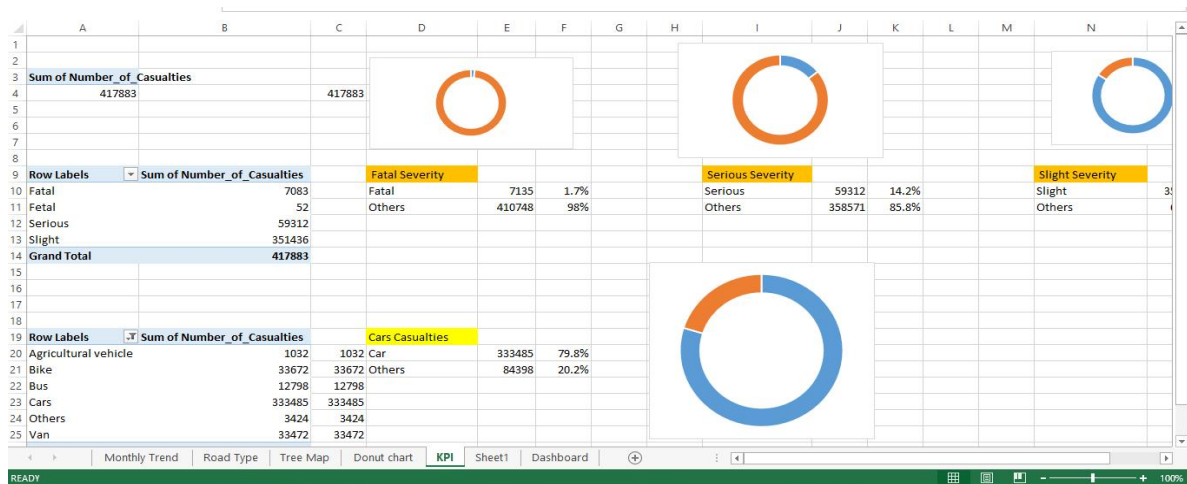
Placing them at the centre

	A	B	C	D	E	F	G	H	I	J
	Accident_Index	Accident Date	Month	Year	Day_of_Week	Junction_Control	Junction_Detail	Accident_Severity	Latitude	Light_Condition
1										
2	200997UD20101	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	55.185307	Daylight
3	200997UC00201	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	Roundabout	Slight	55.61489	rkness - lights
4	200997NC70101	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	55.919085	Daylight
5	200997LA70101	01/01/2021	Jan	2021	Thursday	Auto traffic signal	Crossroads	Slight	55.945221	rkness - lights
6	200997BA70101	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	55.86852	rkness - lights
7	200997AC00401	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	Crossroads	Slight	55.861674	Daylight
8	200997AC00101	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	55.866271	rkness - lights
9	200997AB00501	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	55.871209	rkness - lights
10	200963CP07809	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	51.797741	rkness - no light
11	2009559D00006	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	Roundabout	Slight	51.002041	Daylight
12	200954EU00109	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.992061	rkness - no light
13	200954ER00109	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	Slip road	Slight	51.231348	rkness - no light
14	200954DE00209	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	Roundabout	Slight	51.589993	rkness - lights
15	200954DC00409	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.568842	Daylight
16	200950KH2A001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.88754	rkness - no light
17	200950JA2C001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.48957	rkness - no light
18	200950GP28001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.154228	rkness - lights
19	200950GA2Q001	01/01/2021	Jan	2021	Thursday	Data missing or out of range	junction or within 20 m	Slight	50.336487	rkness - lights
20	200950EL2R001	01/01/2021	Jan	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	50.425222	rkness - lights
21	200950CH2N001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.801888	rkness - no light
22	200950BN2E001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.512334	Daylight
23	200950BL2N001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.629233	Daylight
24	200950BB2G001	01/01/2021	Jan	2021	Thursday	at junction or within 20 m	junction or within 20 m	Slight	50.47618	rkness - no light

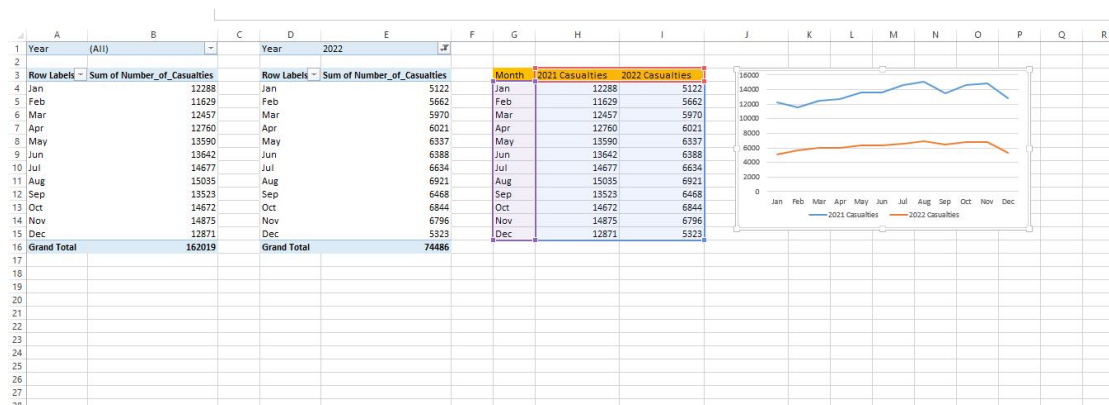
The COUNTA function was used to count the total number of cells that are not empty

Analysing the Data in Excel :

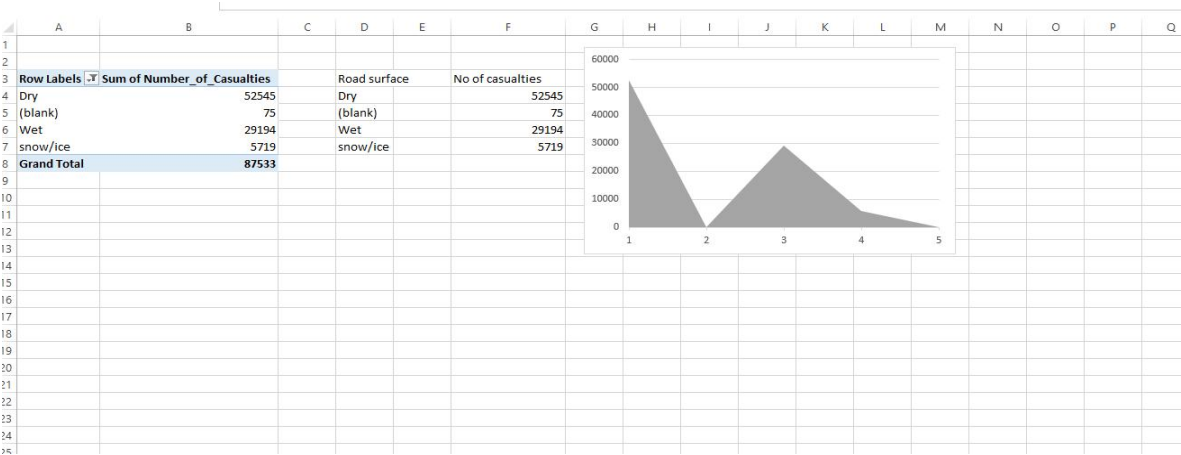
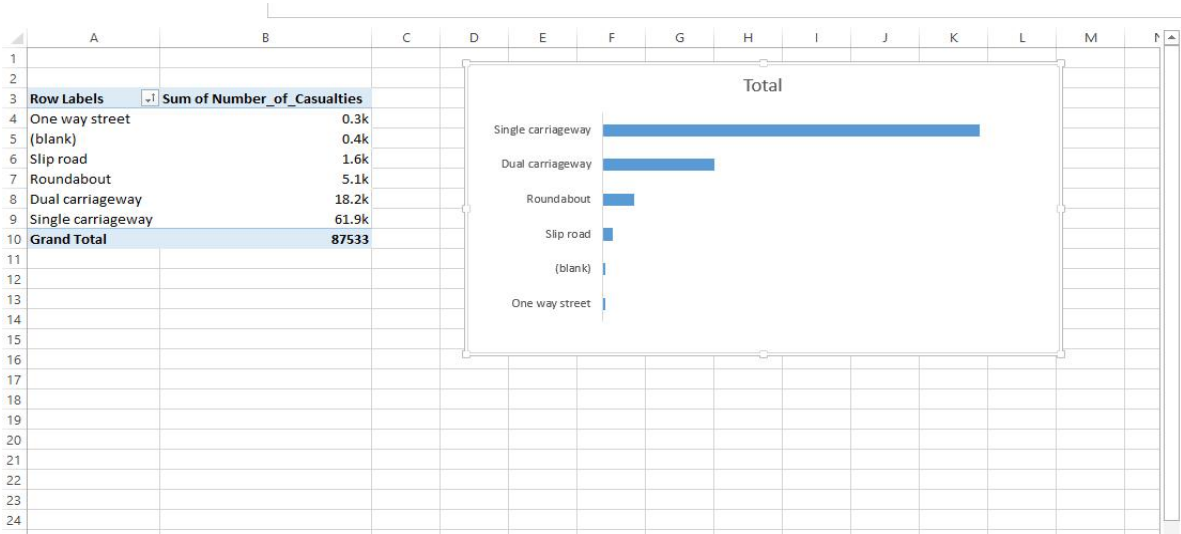
KPI SHEET:



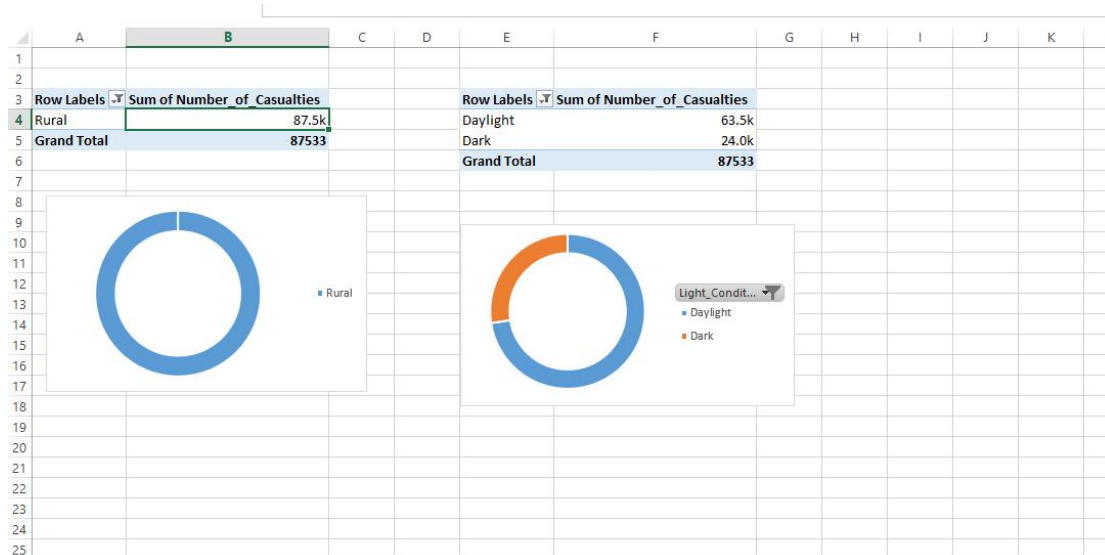
MONTHLY TREND SHEET:



ROAD TYPE :



DAY/ NIGHT :



FULL ROAD ACCIDENT DASHBOARD in Excel



Summary of key findings.

- ❖ After analysing the data we can see the total number of road accident for the year 2021 & 2022.
- ❖ We have the total number of fatal casualties, serious casualties and slight casualties.
- ❖ We can see the total number of casualties by vehicles types.
- ❖ We can see the comparison between current year(CY) casualties and previous year (PY) casualties by monthly trend. Casualties by road type, by road surface, by light condition and using filter to choose in between the years.

DATA REFERENCES:

United kingdom road accident

https://en.m.wikipedia.org/wiki/Reported_Road_Casualties_Great_Britain.