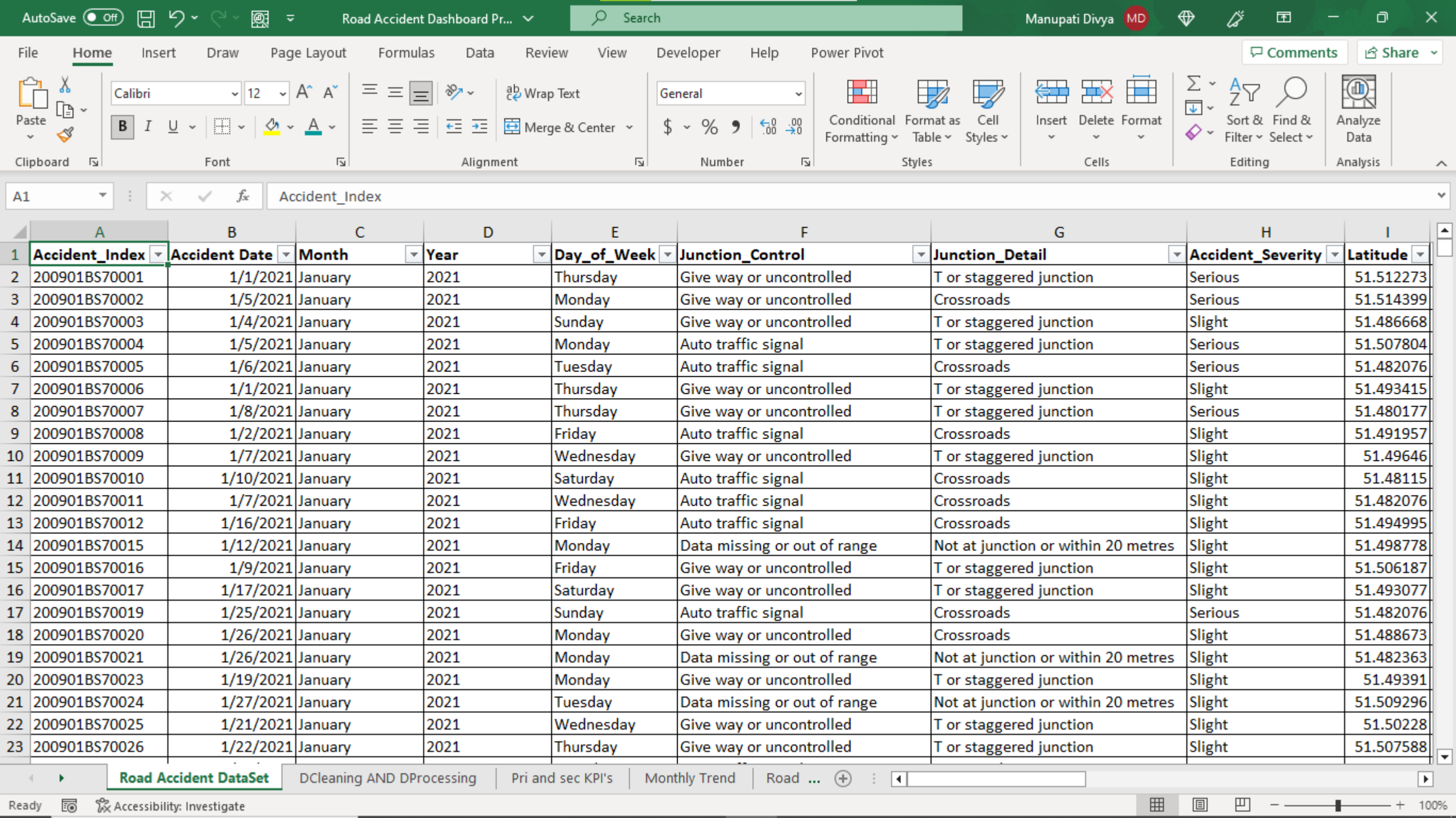

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A1 | Accident_Index

	A	B	C	D	E	F	G	H	I
1	Accident_Index	Accident Date	Month	Year	Day_of_Week	Junction_Control	Junction_Detail	Accident_Severity	Latitude
2	200901BS70001	1/1/2021	January	2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.512273
3	200901BS70002	1/5/2021	January	2021	Monday	Give way or uncontrolled	Crossroads	Serious	51.514399
4	200901BS70003	1/4/2021	January	2021	Sunday	Give way or uncontrolled	T or staggered junction	Slight	51.486668
5	200901BS70004	1/5/2021	January	2021	Monday	Auto traffic signal	T or staggered junction	Serious	51.507804
6	200901BS70005	1/6/2021	January	2021	Tuesday	Auto traffic signal	Crossroads	Serious	51.482076
7	200901BS70006	1/1/2021	January	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.493415
8	200901BS70007	1/8/2021	January	2021	Thursday	Give way or uncontrolled	T or staggered junction	Serious	51.480177
9	200901BS70008	1/2/2021	January	2021	Friday	Auto traffic signal	Crossroads	Slight	51.491957
10	200901BS70009	1/7/2021	January	2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.49646
11	200901BS70010	1/10/2021	January	2021	Saturday	Auto traffic signal	Crossroads	Slight	51.48115
12	200901BS70011	1/7/2021	January	2021	Wednesday	Auto traffic signal	Crossroads	Slight	51.482076
13	200901BS70012	1/16/2021	January	2021	Friday	Auto traffic signal	Crossroads	Slight	51.494995
14	200901BS70015	1/12/2021	January	2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.498778
15	200901BS70016	1/9/2021	January	2021	Friday	Give way or uncontrolled	T or staggered junction	Slight	51.506187
16	200901BS70017	1/17/2021	January	2021	Saturday	Give way or uncontrolled	T or staggered junction	Slight	51.493077
17	200901BS70019	1/25/2021	January	2021	Sunday	Auto traffic signal	Crossroads	Serious	51.482076
18	200901BS70020	1/26/2021	January	2021	Monday	Give way or uncontrolled	Crossroads	Slight	51.488673
19	200901BS70021	1/26/2021	January	2021	Monday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.482363
20	200901BS70023	1/19/2021	January	2021	Monday	Give way or uncontrolled	T or staggered junction	Slight	51.49391
21	200901BS70024	1/27/2021	January	2021	Tuesday	Data missing or out of range	Not at junction or within 20 metres	Slight	51.509296
22	200901BS70025	1/21/2021	January	2021	Wednesday	Give way or uncontrolled	T or staggered junction	Slight	51.50228
23	200901BS70026	1/22/2021	January	2021	Thursday	Give way or uncontrolled	T or staggered junction	Slight	51.507588

Road Accident DataSet | DCleaning AND DProcessing | Pri and sec KPI's | Monthly Trend | Road ...

Ready | Accessibility: Investigate | 100%

META DATA:

File Extension: .xlsx
Number of Rows: 3.07 lks
Number of Columns: 21

DATA CLEANING:

In the data cleaning phase, I implemented various methods to ensure data accuracy and reliability. Here are the methods I used:

1. **Adjusted column and row size:** I reviewed the data layout and made necessary adjustments to ensure all data was properly displayed.
2. **Used filters:** I applied filters to identify any wrong or missing values, as well as any typos or blank cells. This allowed me to easily spot and address any data inconsistencies.
3. **Find and replace:** I utilized the find and replace functionality to correct any typo errors in the data. This helped to ensure consistency and accuracy across the dataset.
4. **Spelling command:** I used the spelling command in the review tab to check for any misspelled words or terms. This helped in identifying and rectifying any spelling errors that may have occurred in the data.
5. **Checking for duplicates and null values:** I used the duplicate command in the data tab to identify any duplicate values in the dataset. By removing or handling these duplicates, I ensured the data integrity. Additionally, I checked for null values to ensure there were no missing or undefined data points.
6. **Checking primary key uniqueness:** I verified the uniqueness of the primary key values in the dataset. This step was crucial to ensure the integrity of the data and avoid any potential issues during analysis.

DATA PROCESSING:

In the data processing phase, I focused on analyzing and preparing the data for further insights.

> To show the trend line for current year and previous year casualities, we have to show month-wise trend.
> so for that we need month column and year column.
> As i can see there is no month and year column, so i have Extracted month and year field from Date field/column.

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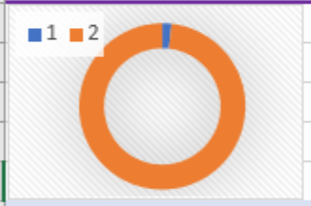
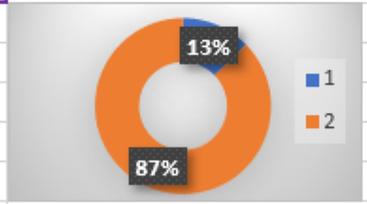
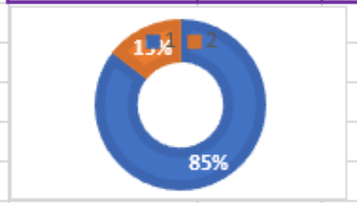
B14 | Secondary KPI's (Vehicletype)

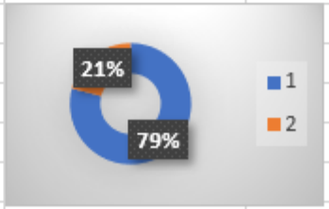
	A	B	C	D	E	F	G	H	I
1	**Primary KPI (Total)**			**PrimaryKPI's(AccidentSeverity)**					
2	**Sum of Number_of_Casualties**	**S_of_Casualties**	**Row Labels**	**Sum of Number_of_Casualties**					
3	18576	18576	Fatal	333					
4			Serious	2362					
5			Slight	15881					
6			**Grand Total**	**18576**					
7	Fatal Severity			Serious Severity			Slight Severity		
8	Fatal	333	1.8%	Serious	2362	12.7%	Slight	15881	85.5%
9	Other	18243	98.2%	Other	16214	87.3%	Other	2695	14.5%
10									
11									
12									
13									
14		**Secondary KPI's (Vehicletype)**							
15	**Row Labels**	**Sum of Number_of_Casualties**			Car Casualities				
16	Agricultural vehicle	56	56		Cars	14683	79%		
17	Cars	14683	14683		Others	3893	21%		
18	Bus	552	552						
19	Van	1462	1462						
20	Bike	1664	1664						
21	Others	159	159						
22	**Grand Total**	**18576**							
23									

Accident Date | Dec 2021 | QUARTERS | 2021 2022 2023 | Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2









Road Accident DataSet | DCleaning AND DProcessing | Pri and sec KPI's | Monthly Trend | Road ...

Ready | Accessibility: Investigate | 100%

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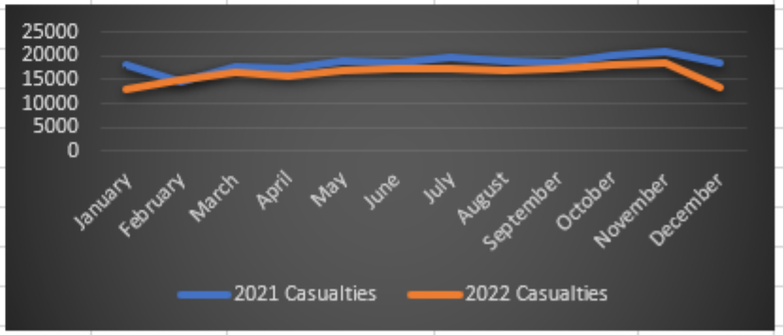
M25

	A	B	C	D	E	F	G	H	I	J	K	L
1	**Monthly Trend**						Month	2021 Casualties	2022 Casualties			
2	Year	2021		Year	2022		January	18172	13163			
3							February	14648	14804			
4	**Row Labels**	**Sum of Number_of_Casualties**		**Row Labels**	**Sum of Number_of_Casualties**		March	17815	16575			
5	January	18172		January	13163		April	17335	15767			
6	February	14648		February	14804		May	18852	16775			
7	March	17815		March	16575		June	18728	17230			
8	April	17335		April	15767		July	19682	17201			
9	May	18852		May	16775		August	18797	16796			
10	June	18728		June	17230		September	18456	17500			
11	July	19682		July	17201		October	20109	18287			
12	August	18797		August	16796		November	20975	18439			
13	September	18456		September	17500		December	18576	13200			
14	October	20109		October	18287							
15	November	20975		November	18439							
16	December	18576		December	13200							
17	**Grand Total**	**222145**		**Grand Total**	**195737**							
18												
19												
20												
21												
22												
23												



Road Accident DataSet | DCleaning AND DProcessing | Pri and sec KPI's | **Monthly Trend** | Road ...

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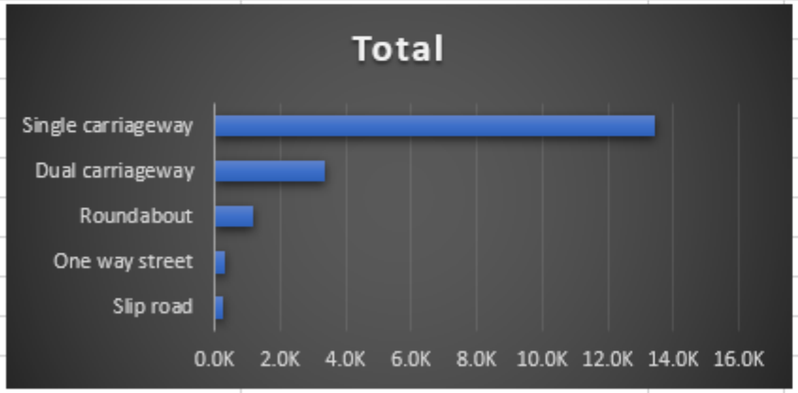
Q23

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2	**Road Type**														
3		**Sum of Number_of_Casualties**													
4	Slip road	0.2K													
5	One way street	0.3K													
6	Roundabout	1.2K													
7	Dual carriageway	3.4K													
8	Single carriageway	13.4K													
9	**Grand Total**	**18512**													
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															



... | DCleaning AND DProcessing | Pri and sec KPI's | Monthly Trend | Road Type | RoadSurface Con... | +

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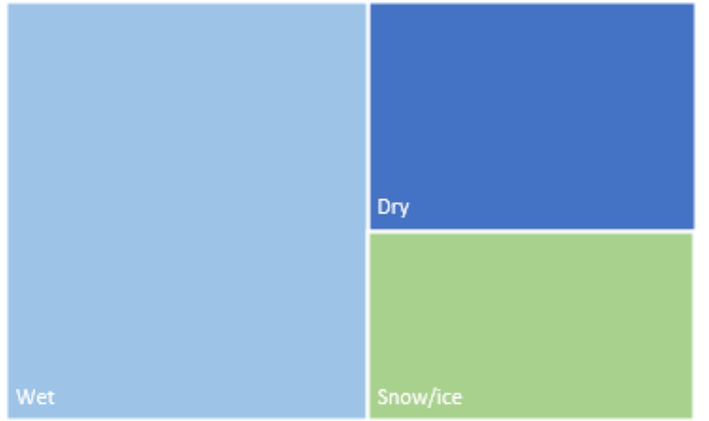
Clipboard | Font | Alignment | Number | Styles | Cells | Editing | Analysis

O24

	A	B	C	D	E
1					
2		**RoadSurface Conditions**			
3	**Row Labels**	**Sum of Number_of_Casualties**		**Row Labels**	**Sum of Number_of_Casualties**
4	Dry	4851		Dry	4851
5	(blank)	19		(blank)	19
6	Wet	9724		Wet	9724
7	Snow/ice	3982		Snow/ice	3982
8	**Grand Total**	**18576**			



Pri and sec KPI's | Monthly Trend | Road Type | RoadSurface Conditions | Area,Day-Night | Da ...

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N25

	A	B	C	D	E	F	G	H	I	J	K	L	M
1													
2	**Location/Area**			**Day/Night**									
3	**Row Labels**	**Sum of Number_of_Casualties**		**Row Labels**	**Sum of Number_of_Casualties**								
4	Rural	7.5K		Daylight	9.2K								
5	Urban	11.0K		Dark	9.4K								
6	**Grand Total**	**18576**		**Grand Total**	**18576**								
7													
8													
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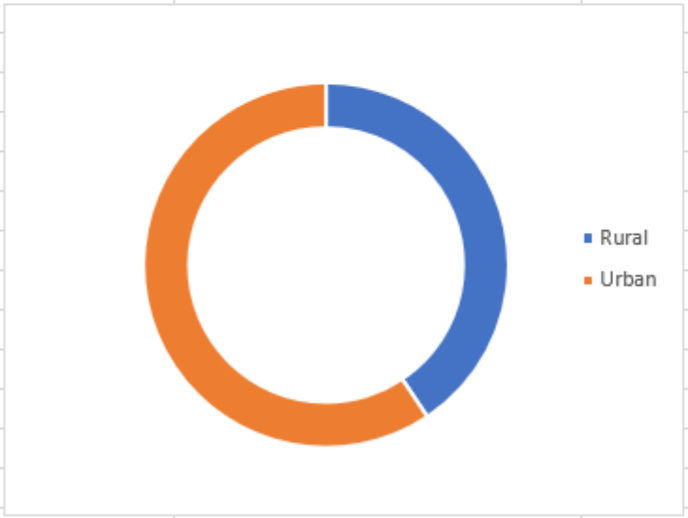
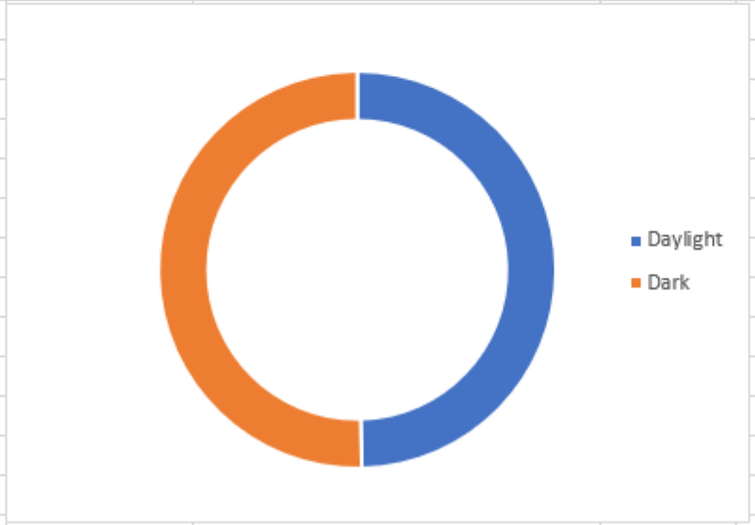
23													





Urban_or_Rura...
Rural
Urban

Pri and sec KPI's | Monthly Trend | Road Type | RoadSurface Conditions | Area,Day-Night | Da ...

Ready | Accessibility: Investigate | 100%

Primary KPI

Sum of Number_of_Casualties
18576

Secondary KPI

Row Labels	Sum of Number_of_Casualties
Fatal	333
Serious	2362
Slight	15881
Grand Total	18576

Secondary KPI

Row Labels	Sum of Number_of_Casualties
Agricultural ve	56
Cars	14683
Bus	552
Van	1462
Bike	1664
Others	159
Grand Total	18576

Road Surface Conditions

Row Labels	Sum of Number_of_Casualties
Dry	4851
(blank)	19
Wet	9724
Snow/ice	3982
Grand Total	18576

Monthly Trend

Year: 2021

Row Labels	Sum of Number_of_Casualties
January	18172
February	14648
March	17815
April	17335
May	18852
June	18728
July	19682
August	18797
September	18456
October	20109
November	20975
December	18576
Grand Total	222145

Road Type

Row Labels	Sum of Number_of_Casualties
Slip road	0.2K
One way street	0.3K
Roundabout	1.2K
Dual carriageway	3.4K
Single carriageway	13.4K
Grand Total	18512

Monthly Trend

Year: 2022

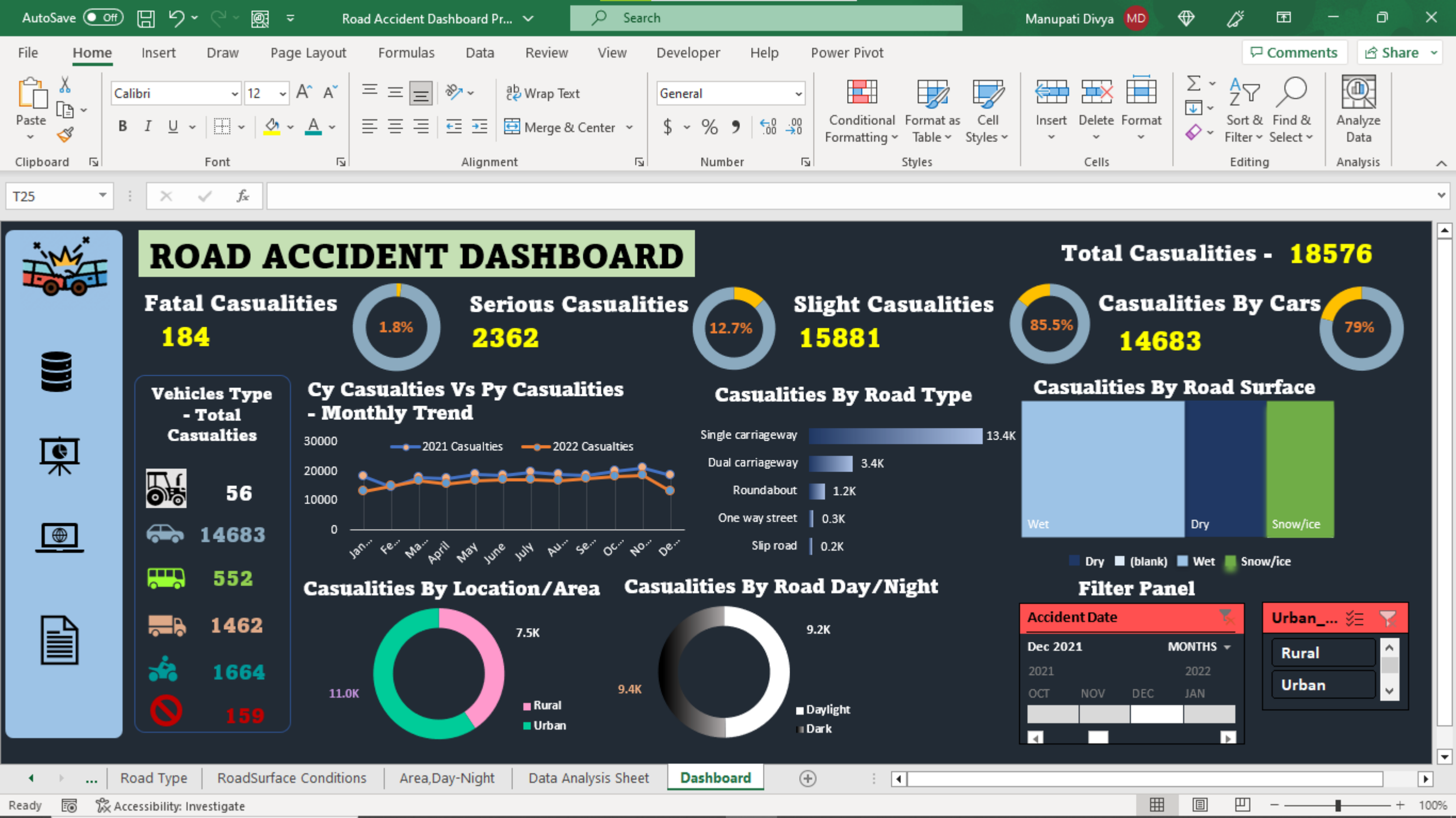
Row Labels	Sum of Number_of_Casualties
January	13163
February	14804
March	16575
April	15767
May	16775
June	17230
July	17201
August	16796
September	17500
October	18287
November	18439
December	13200
Grand Total	195737

Location/Area

Row Labels	Sum of Number_of_Casualties
Rural	7.5K
Urban	11.0K
Grand Total	18576

Day/Night

Row Labels	Sum of Number_of_Casualties
Daylight	9.2K
Dark	9.4K
Grand Total	18576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General Number
Conditional Formatting Format as Table Cell Styles Styles
Insert Delete Format Cells
Sort & Filter Find & Select Editing
Analyze Data Analysis
T25
ROAD ACCIDENT DASHBOARD
Total Casualities - 18576
Fatal Casualities
184
1.8%
Serious Casualities
2362
12.7%
Slight Casualities
15881
85.5%
Casualities By Cars
14683
79%
Vehicles Type - Total Casualties
56
14683
552
1462
1664
159
Cy Casualties Vs Py Casualties - Monthly Trend
30000
20000
10000
0
2021 Casualties
2022 Casualties
Jan... Fe... Ma... April May June July Au... Se... Oc... No... De...
Casualities By Road Type
Single carriageway 13.4K
Dual carriageway 3.4K
Roundabout 1.2K
One way street 0.3K
Slip road 0.2K
Casualities By Road Surface
Wet
Dry
Snow/ice
Dry (blank) Wet Snow/ice
Casualities By Location/Area
11.0K
7.5K
Rural
Urban
Casualities By Road Day/Night
9.4K
9.2K
Daylight
Dark
Filter Panel
Accident Date
Dec 2021
MONTHS
2021
2022
OCT NOV DEC JAN
Urban_...
Rural
Urban
Road Type
RoadSurface Conditions
Area,Day-Night
Data Analysis Sheet
Dashboard
Ready
Accessibility: Investigate
100%