

# ROAD ACCIDENT DASHBOARD REQUIREMENT

Total Cas

Fatal Casualties

7135

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

Serious Casualties

59312

Slight Casualties

351436

Casualties

3334

Casualties by  
Vehicle Type

❖ **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

CY Casualties vs PY Casualties Monthly Trend

Casualties by Road Type

Casualties

Filter Panel

Accident Date

All Periods

QUARTERS +

2021

2022

Q1

Q2

Q3

Q4

Q1

Q2

Q3

Q4

# STAKEHOLDERS

❖ Ministry of Transport

❖ Road Transport Department

❖ Police Force

❖ Emergency Services Department

❖ Road Safety Corps

❖ Transport Operators

❖ Traffic Management Agencies

❖ Public

❖ Media

# ROAD ACCIDENT DASHBOARD

Total Casualties 417883

Fatal Casualties

7135

1.7%

Serious Casualties

59312

Slight Casualties

Casualties by Car

DATA CLEANING

	A	B	C	D	E	F	G
1	Accident_Index	Accident_Sr	Carriageway	Accident Date	Day_of_Week	Junction_Control	Junction_Detail
2	200901BS70001	Serious	None	01-01-2021	Thursday	Give way or uncontr	T or staggered jun
3	200901BS70002	Serious	None	05-01-2021	Monday	Give way or uncontr	Crossroads
4	200901BS70003	Slight	None	04-01-2021	Sunday	Give way or uncontr	T or staggered jun
5	200901BS70004	Serious	None	05-01-2021	Monday	Auto traffic signal	T or staggered jun
6	200901BS70005	Serious	None	06-01-2021	Tuesday	Auto traffic signal	Crossroads
7	200901BS70006	Slight	None	01-01-2021	Thursday	Give way or uncontr	T or staggered jun
8	200901BS70007	Serious	None	08-01-2021	Thursday	Give way or uncontr	T or staggered jun
9	200901BS70008	Slight	None	02-01-2021	Friday	Auto traffic signal	Crossroads
10	200901BS70009	Slight	None	07-01-2021	Wednesday	Give way or uncontr	T or staggered jun
11	200901BS70010	Slight	None	10-01-2021	Saturday	Auto traffic signal	Crossroads
12	200901BS70011	Slight	None	07-01-2021	Wednesday	Auto traffic signal	Crossroads
13	200901BS70012	Slight	None	16-01-2021	Friday	Auto traffic signal	Crossroads
14	200901BS70015	Slight	None	12-01-2021	Monday	Data missing or out	Not at junction or
15	200901BS70016	Slight	None	09-01-2021	Friday	Give way or uncontr	T or staggered jun
16	200901BS70017	Slight	None	17-01-2021	Saturday	Give way or uncontr	T or staggered jun
17	200901BS70019	Serious	None	25-01-2021	Sunday	Auto traffic signal	Crossroads
18	200901BS70020	Slight	None	26-01-2021	Monday	Give way or uncontr	Crossroads
19	200901BS70021	Slight	None	26-01-2021	Monday	Data missing or out	Not at junction or
20	200901BS70023	Slight	None	19-01-2021	Monday	Give way or uncontr	T or staggered jun
21	200901BS70024	Slight	None	27-01-2021	Tuesday	Data missing or out	Not at junction or
22	200901BS70025	Slight	None	21-01-2021	Wednesday	Give way or uncontr	T or staggered jun
23	200901BS70026	Slight	None	22-01-2021	Thursday	Give way or uncontr	T or staggered jun
24	200901BS70027	Serious	None	31-01-2021	Saturday	Auto traffic signal	Crossroads
25	200901BS70028	Slight	None	03-02-2021	Tuesday	Give way or uncontr	T or staggered jun
26	200901BS70030	Slight	None	31-01-2021	Saturday	Give way or uncontr	T or staggered jun



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Slight Casualties

Casualties by Car

Casualties by Vehicle

DATA PROCESSING

333485

33472

12798

33673

1032

10000

Casualties by Location



E2								
	A	B	C	D	E	F	G	H
1	Accident_Index	Accident_Seriousness	Carriageway	Accident Date	Month	Day_of_Week	Junction_Control	Junction_Detail
2	200901BS70001	Serious	None	01-01-2021	=TEXT(D2,"mmmm")		Give way or uncontrolled	T or staggered junction
3	200901BS70002	Serious	None	05-01-2021		Monday	Give way or uncontrolled	Crossroads
4	200901BS70003	Slight	None	04-01-2021		Sunday	Give way or uncontrolled	T or staggered junction
5	200901BS70004	Serious	None	05-01-2021		Monday	Auto traffic signal	T or staggered junction
6	200901BS70005	Serious	None	06-01-2021		Tuesday	Auto traffic signal	Crossroads
7	200901BS70006	Slight	None	01-01-2021		Thursday	Give way or uncontrolled	T or staggered junction
8	200901BS70007	Serious	None	08-01-2021		Thursday	Give way or uncontrolled	T or staggered junction
9	200901BS70008	Slight	None	02-01-2021		Friday	Auto traffic signal	Crossroads
10	200901BS70009	Slight	None	07-01-2021		Wednesday	Give way or uncontrolled	T or staggered junction
11	200901BS70010	Slight	None	10-01-2021		Saturday	Auto traffic signal	Crossroads
12	200901BS70011	Slight	None	07-01-2021		Wednesday	Auto traffic signal	Crossroads
13	200901BS70012	Slight	None	16-01-2021		Friday	Auto traffic signal	Crossroads
14	200901BS70015	Slight	None	12-01-2021		Monday	Data missing or out of range	Not at junction or roundabout
15	200901BS70016	Slight	None	09-01-2021		Friday	Give way or uncontrolled	T or staggered junction
16	200901BS70017	Slight	None	17-01-2021		Saturday	Give way or uncontrolled	T or staggered junction
17	200901BS70019	Serious	None	25-01-2021		Sunday	Auto traffic signal	Crossroads
18	200901BS70020	Slight	None	26-01-2021		Monday	Give way or uncontrolled	Crossroads
19	200901BS70021	Slight	None	26-01-2021		Monday	Data missing or out of range	Not at junction or roundabout
20	200901BS70023	Slight	None	19-01-2021		Monday	Give way or uncontrolled	T or staggered junction
21	200901BS70024	Slight	None	27-01-2021		Tuesday	Data missing or out of range	Not at junction or roundabout
22	200901BS70025	Slight	None	21-01-2021		Wednesday	Give way or uncontrolled	T or staggered junction
23	200901BS70026	Slight	None	22-01-2021		Thursday	Give way or uncontrolled	T or staggered junction
24	200901BS70027	Serious	None	31-01-2021		Saturday	Auto traffic signal	Crossroads
25	200901BS70028	Slight	None	03-02-2021		Tuesday	Give way or uncontrolled	T or staggered junction
26	200901BS70030	Slight	None	31-01-2021		Saturday	Give way or uncontrolled	T or staggered junction
27	200901BS70031	Serious	None	31-01-2021		Saturday	Give way or uncontrolled	T or staggered junction

# ROAD ACCIDENT DASHBOARD

Total Casualties 41788

Fatal Casualties

7135

1.7%

Serious Casualties

59312

Casualties by Vehicle Type



333485



33472



12798



33672



1032



5424

## DATA ANALYSIS



Casualties by Location



	A	B	C	D	E	F	G	H
1	Year	2021	.Y					
2								
3	Row Labels	Sum of Number_of_Casualties		Month	2021 Casualties	2022 Casualties		
4	Jan	18173		Jan	18173	13163		
5	Feb	14648		Feb	14648	14804		
6	Mar	17815		Mar	17815	16575		
7	Apr	17335		Apr	17335	15767		
8	May	18852		May	18852	16775		
9	Jun	18728		Jun	18728	17230		
10	Jul	19682		Jul	19682	17201		
11	Aug	18797		Aug	18797	16796		
12	Sep	18456		Sep	18456	17500		
13	Oct	20109		Oct	20109	18287		
14	Nov	20975		Nov	20975	18439		
15	Dec	18576		Dec	18576	13200		
16								
17	Year	2022	.Y					
18								
19	Row Labels	Sum of Number_of_Casualties						
20	Jan	13163						
21	Feb	14804						
22	Mar	16575						
23	Apr	15767						
24	May	16775						
25	Jun	17230						
26	Jul	17201						
27	Aug	16796						
28	Sep	17500						
29	Oct	18287						
30	Nov	18439						
31	Dec	13200						
32								
33								



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Total Casualties 417883

Fatal Casualties

7135

1.7%

Serious Casualties

59312

## DATA VISUALIZATION

333485

33472

12798

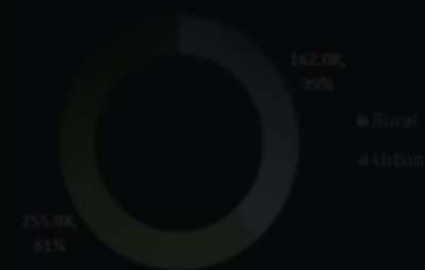
33672

1032

3434



Casualties by Location



Fatal Casualties

7135

1.7%

Serious Casualties

59312

14.2%

Count of Accident_Index	Sum of Number_of_Casualties	Row Label	Sum of Number_of_Casualties
307973	417883	Fatal	7135
307973	417883	Serious	59312
		Slight	351436

# ROAD ACCIDENT DASHBOARD

Total Casualties 417883

Fatal Casualties

7135

1.7%

Serious Casualties

59312

Slight Casualties

Casualties by Car

REPORT/ DASHBOARD

333485

33472

12798

33672

1032

3429



Casualties by Location



## ROAD ACCIDENT DASHBOARD

Total Casualties 417883

Fatal Casualties

7135

Serious Casualties

59312

Slight Casualties

351436

Casualties by Car

333485

Casualties by Vehicle Type

333485

33472

12798

33672

1032

3429

CY Casualties vs PY Casualties Monthly Trend



Casualties by Road Type



Casualties by Road Surface



Casualties by Location



Casualties by Day/ Night



Filter Panel

Accident Date: All Periods, 2021, 2022, QUARTERS, Q1, Q2, Q3, Q4, Q1, Q2, Q3, Q4

Urban/ Rural: Rural, Urban



# ROAD ACCIDENT DASHBOARD

Total Casualties **417883**

Fatal Casualties

**7135**

1.7%

Serious Casualties

**59312**

14.2%

Slight Casualties

**351436**

84.1%

Casualties by Car

**333485**

79.8%

Casualties by Vehicle Type

 **333485**

 **33472**

 **12798**

 **33672**

 **1032**

 **3424**

CY Casualties vs PY Casualties Monthly Trend



Casualties by Road Type



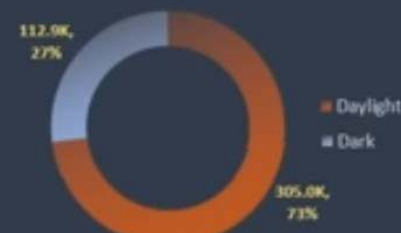
Casualties by Road Surface



Casualties by Location



Casualties by Day/ Night



Filter Panel

Accident Date: All Periods (QUARTERS: 2021 Q1 Q2 Q3 Q4 2022 Q1 Q2 Q3 Q4)

Urban/ Rural: Rural Urban