Visual Data Analysis Project

Analysis of Road Accidents In India

By

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1970 - 2019 Data Visualization

Accidents by States/UTs

Major Causes of Accidents

Injuries and deaths by States/UTs (2016 -2019)

Road Accidents due to weather

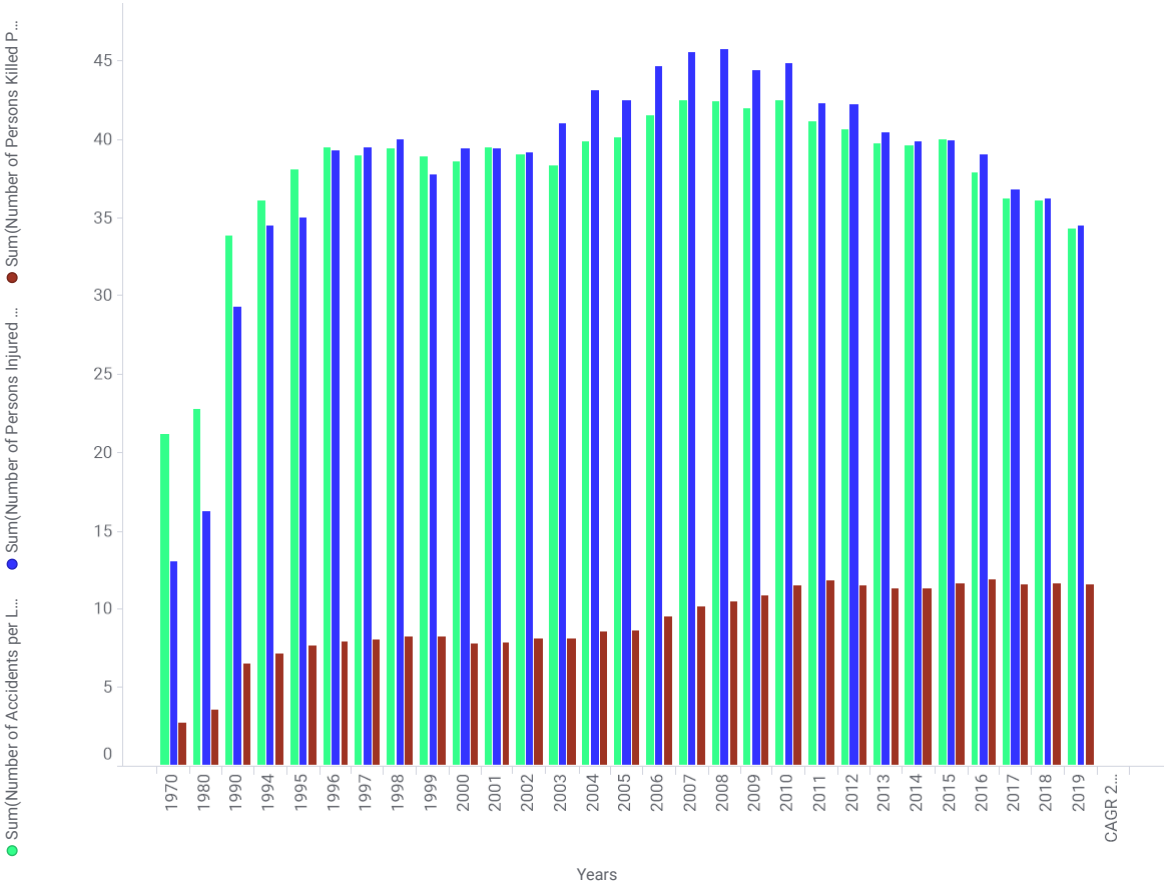
Road Accidents vs Vehicle types

Urban vs rural Accidents & Deaths

Gender & Age vs Road Accidents

1970 - 2019

Total number of accidents vs number of injuries and deaths per year from 1970 to 2019



Data table:
RA2019_A1

Color by:
(Column Names)

- Sum(Number of Accidents per Lakh Population)
- Sum(Number of Persons Injured per Lakh Population)
- Sum(Number of Persons Killed Per Lakh Population)

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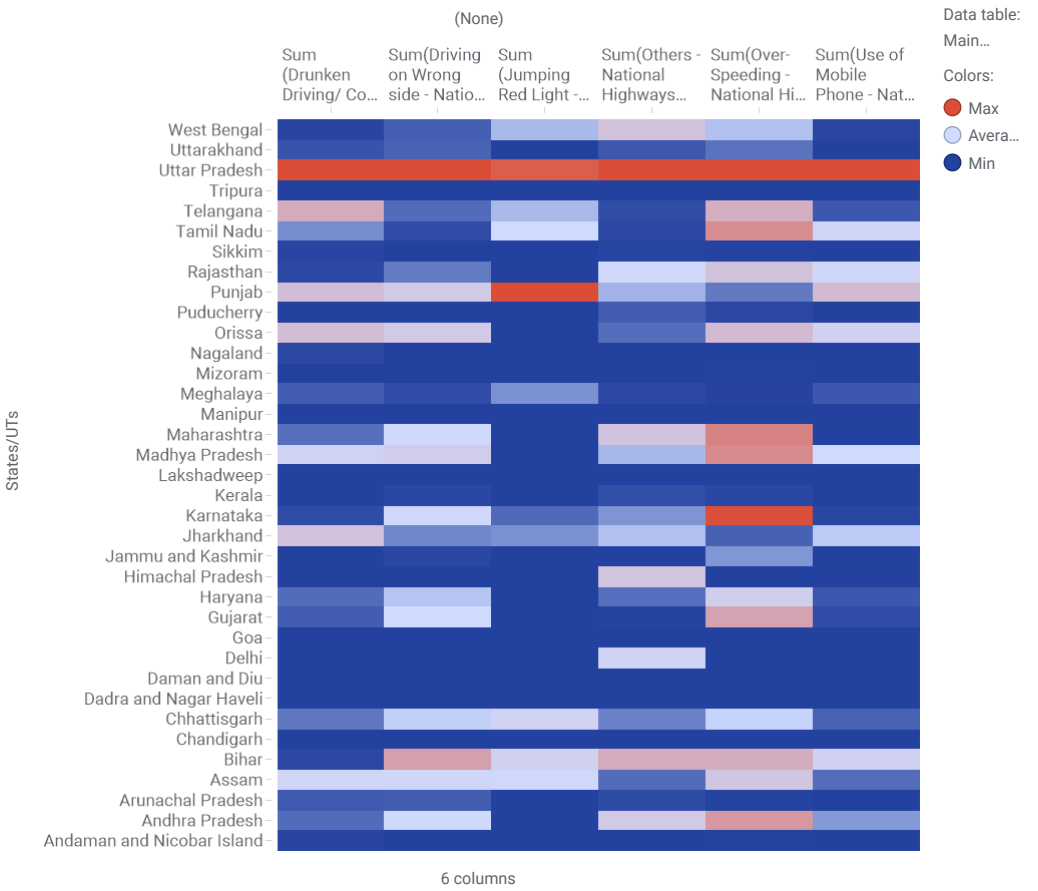
States mostly effected

49 columns from Main_causes_of_road_accidents...

States/UTs	Over-Speeding - National Highways under NHAI - Total Accidents	Over-Speeding - National Highways under NHAI - Death	Over-Speeding - National Highways under State PWD - Total Accidents	Over-S... - H... und... PW...
Andhra Pradesh	4464	1788	1148	
Arunachal Pra...	21	10	9	
Assam	2291	1035	1075	
Bihar	1937	1456	617	
Chhattisgarh	1793	658	1322	
Goa	0	0	1038	
Gujarat	3039	1606	352	
Haryana	1315	910	679	
Himachal Pra...	0	0	0	
Jammu and K...	2064	382	0	
Jharkhand	146	147	148	
Karnataka	10194	2991	2284	
Kerala	264	26	6687	
Madhya Prade...	6349	2021	920	
Maharashtra	4468	2150	989	
Manipur	0	0	227	
Meghalaya	34	11	23	
Mizoram	5	5	5	
Nagaland	22	2	42	
Orissa	2464	1219	649	
Punjab	365	258	375	
Rajasthan	2452	1109	1131	
Sikkim	6	4	15	
Tamil Nadu	10294	1981	3497	
Telangana	3870	1430	1525	
Tripura	0	0	225	
Uttarakhand	319	227	166	
Uttar Pradesh	5175	3015	895	
West Bengal	1013	576	479	

Major cause of accidents per States/UTs in 2019



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Major causes of accidents

RA causes by States/UTs

Main_causes_of_road_acci

Data table:
Main_causes_of_ro...

Feature by:
States/UTs » Country

Color by:
Sum(Other causes)

- Max (6712,00)
- Min (0,00)

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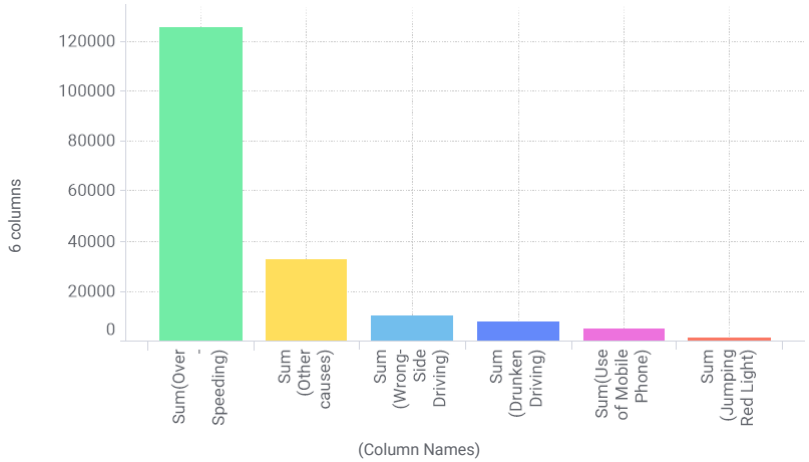
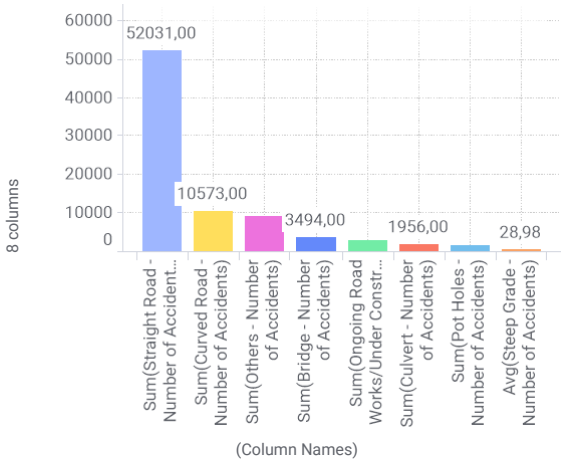
Major Causes of the Road Accident happening in India



Color by:
(Column Names)

- Sum(Drunken Drivin...
- Sum(Jumping Red ...
- Sum(Over-Speeding)
- Sum(Use of Mobile ...
- Sum(Wrong-Side Dr...
- Sum(Other causes)

Road Accident vs types of roads



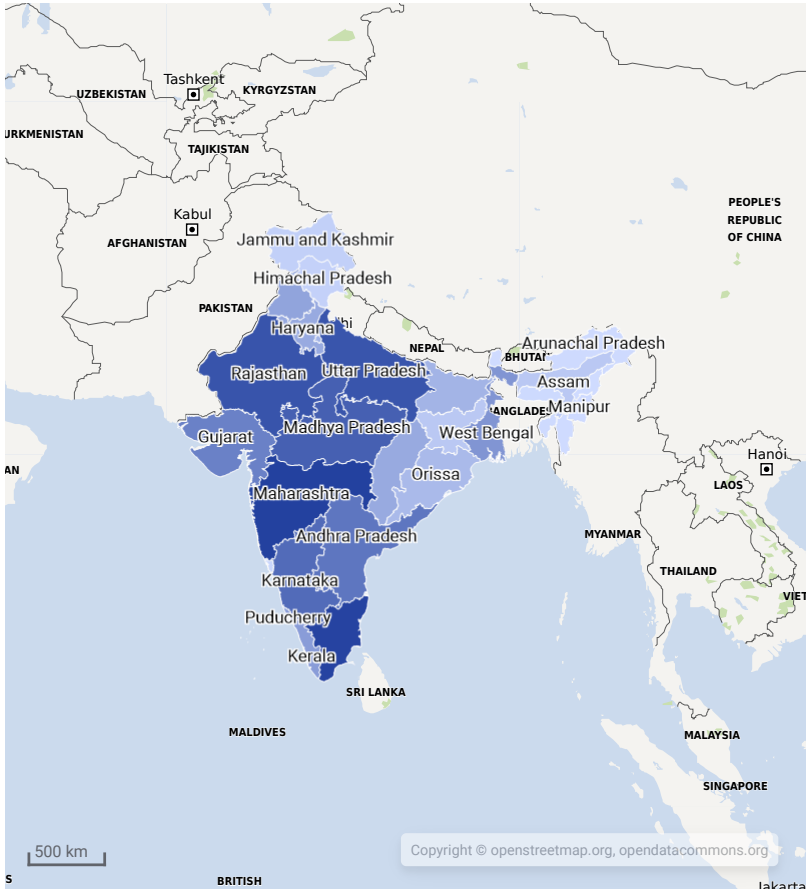
Data table:
road_features_cities_wise - RA2019_A48

Color by:
(Column Names)

- Sum(Bridge - Number of Accidents)
- Sum(Culvert - Number of Accidents)
- Sum(Curved Road - Number of Accidents)
- Sum(Ongoing Road Works/Under Construction - Nu...
- Sum(Others - Number of Accidents)
- Sum(Pot Holes - Number of Accidents)
- Avg(Steep Grade - Number of Accidents)
- Sum(Straight Road - Number of Accidents - number)

Total Injuries and Deaths per States

Total Injuries from Accident per States 2016 to 2019



Accident_details_state_UT_

Data table:
Accident_details_st...

Feature by:
State/UTs » Country

Color by:
Sum(Fatal Accident...

- Max (5070,00)
- Min (1,00)

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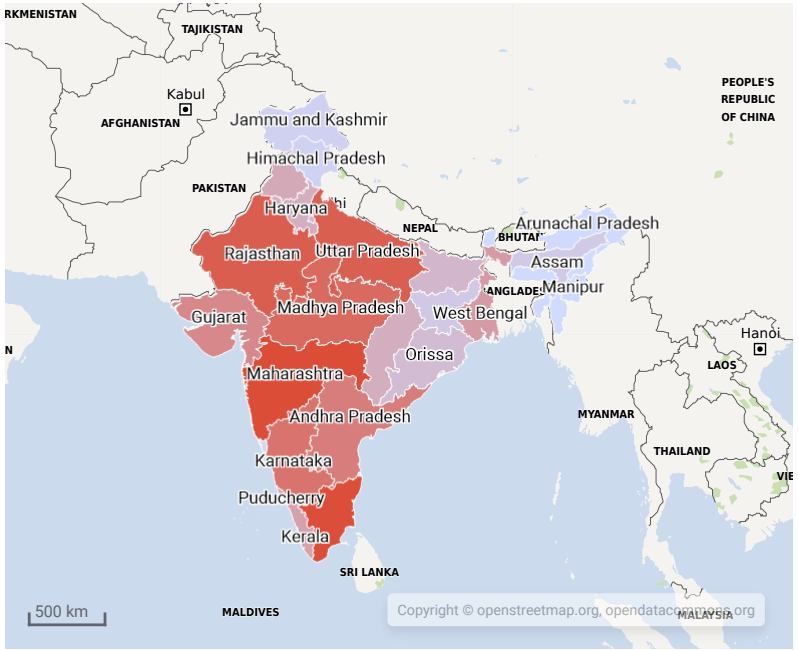
Total Deaths from Accidents per States 2016 to 2019



Accident_details_state_UT_

Data table:
Accident_details_st...

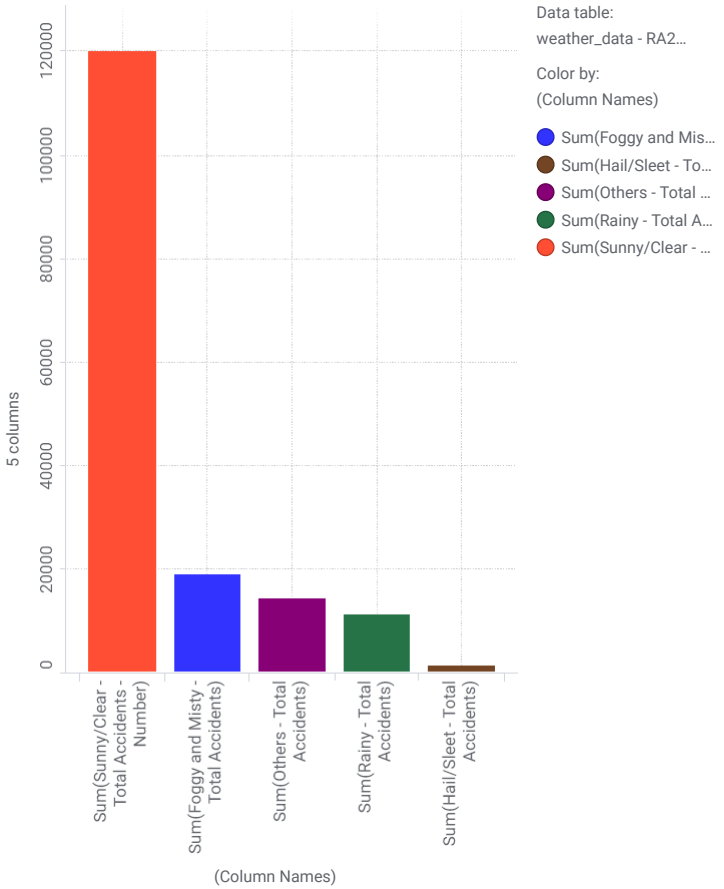
Feature by:
State/UTs » Country

Color by:
Sum(Fatal Accident...

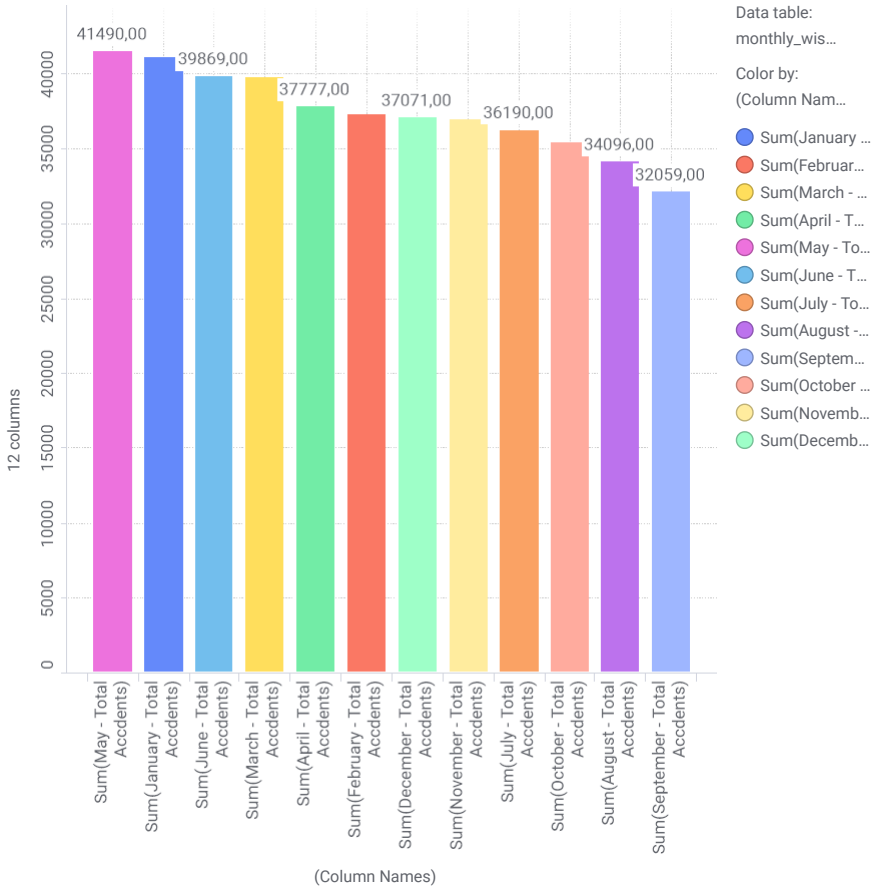
- Max (5070,00)
- Min (1,00)

road accident vs weather

Road Accidents during different weather situations



Road Accidents in each months of the year 2019



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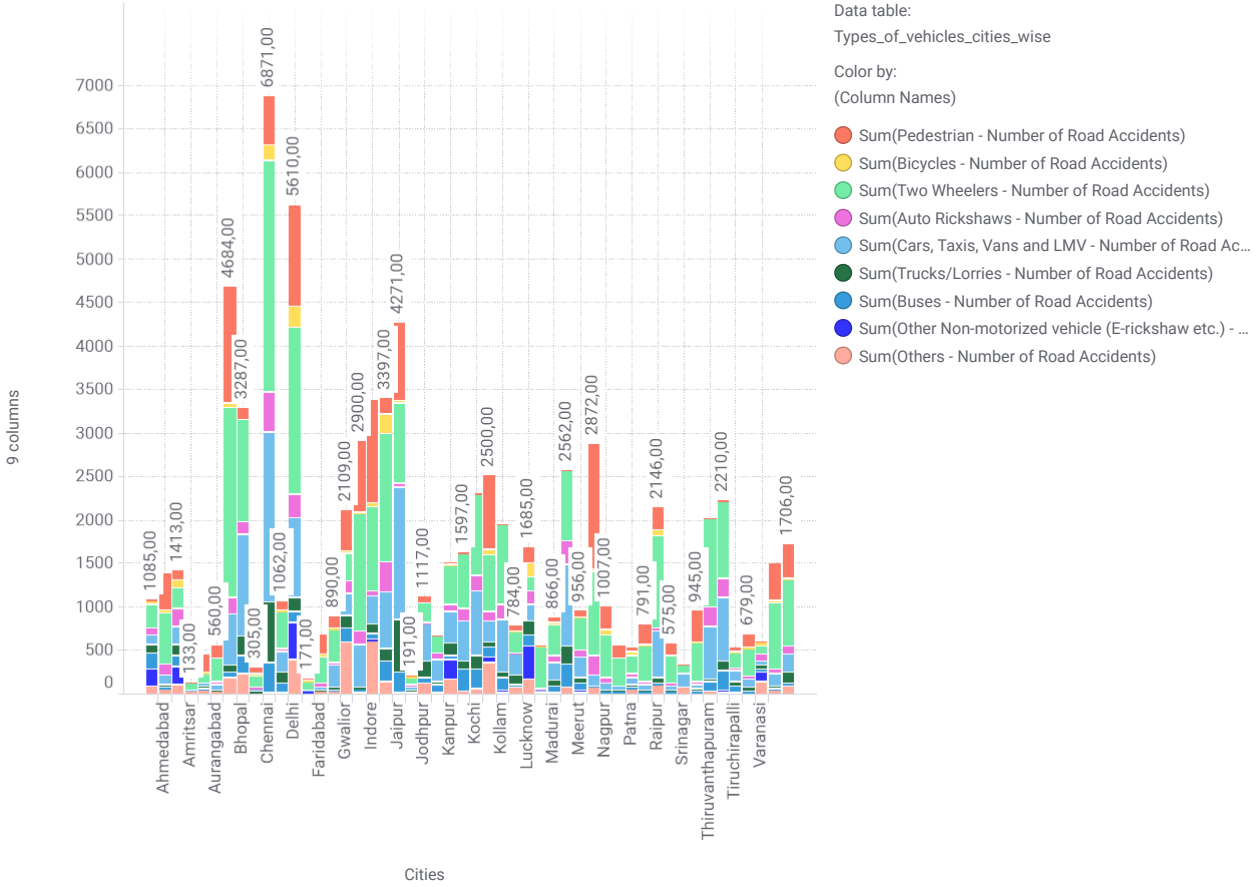
Vehicle types

Road accidents based on vehicle types per cities in 2019



Data table:
Types_of_vehicles_cities_wise

Color by:
(Column Names)

- Sum(Pedestrian - Number of Road Accidents)
- Sum(Bicycles - Number of Road Accidents)
- Sum(Two Wheelers - Number of Road Accidents)
- Sum(Auto Rickshaws - Number of Road Accidents)
- Sum(Cars, Taxis, Vans and LMV - Number of Road Ac...
- Sum(Trucks/Lorries - Number of Road Accidents)
- Sum(Buses - Number of Road Accidents)
- Sum(Other Non-motorized vehicle (E-rickshaw etc.) - ...
- Sum(Others - Number of Road Accidents)

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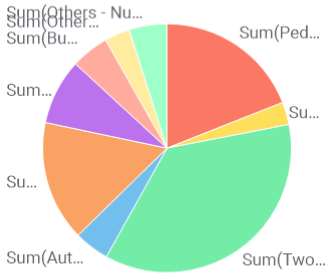
Number of deaths vs different vehicle types in 2019



Data table:
Types_of_vehicles_cities_wise

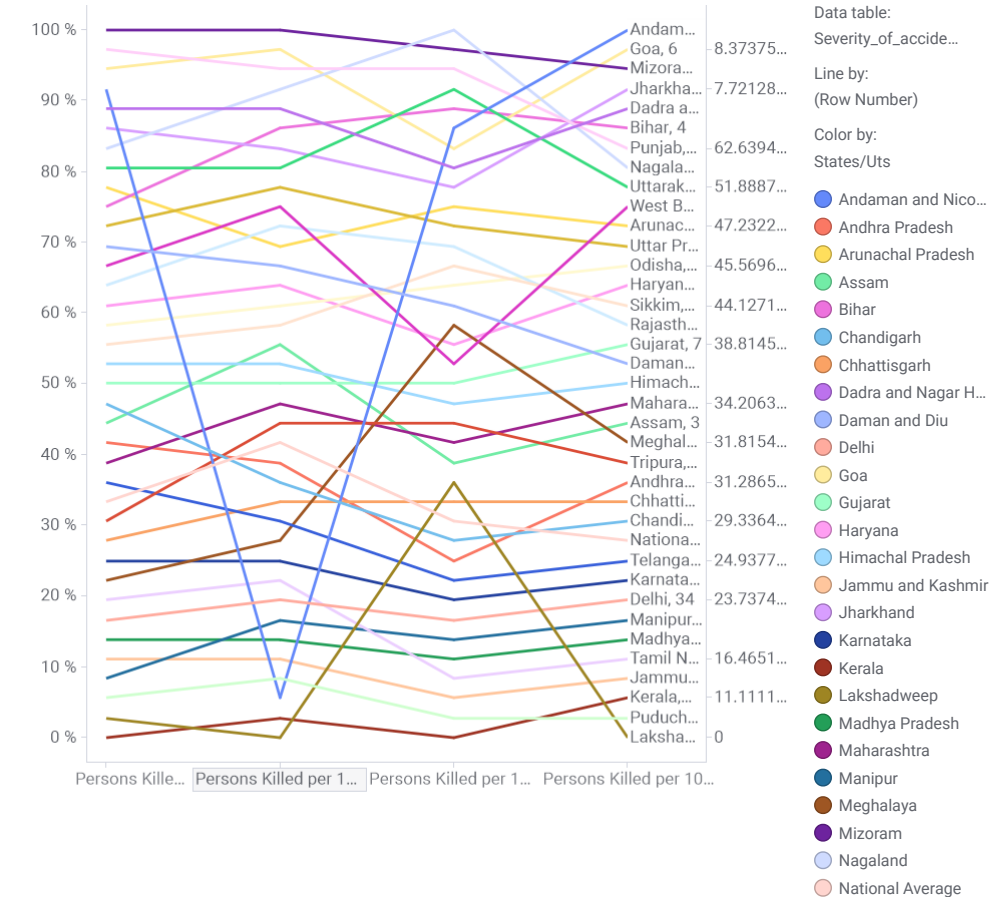
Color by:
(Column Names)

- Sum(Pedestrian - Number of Persons - Killed)
- Sum(Bicycles - Number of Persons - Killed)
- Sum(Two Wheelers - Number of Persons - Killed)
- Sum(Auto Rickshaws - Number of Persons - Killed)
- Sum(Cars, Taxis, Vans and LMV - Number of Per...
- Sum(Trucks/Lorries - Number of Persons - Killed)
- Sum(Buses - Number of Persons - Killed)
- Sum(Other Non-motorized vehicle (E-rickshaw et...
- Sum(Others - Number of Persons - Killed)

Sector size by:
9 columns

Severity-of-accidents

Severity of accidents per states/UT



Data table:
Severity_of_accide...

Line by:
(Row Number)

Color by:
States/Uts

- Andaman and Nico...
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Dadra and Nagar H...
- Daman and Diu
- Delhi
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir
- Jharkhand
- Karnataka
- Kerala
- Lakshadweep
- Madhya Pradesh
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- Nagaland
- National Average

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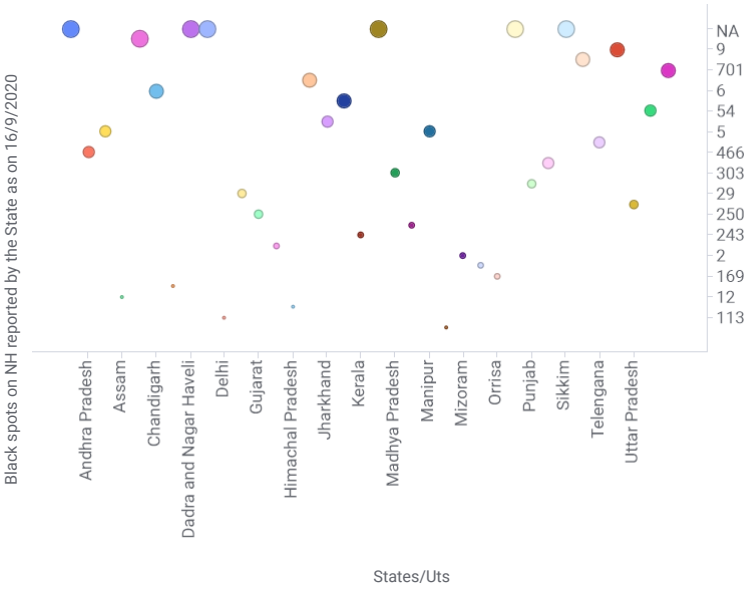
Black spots on NH reported by the State as on 16/9/2020 vs. States/Uts



Data table:
Blackspots_state_...

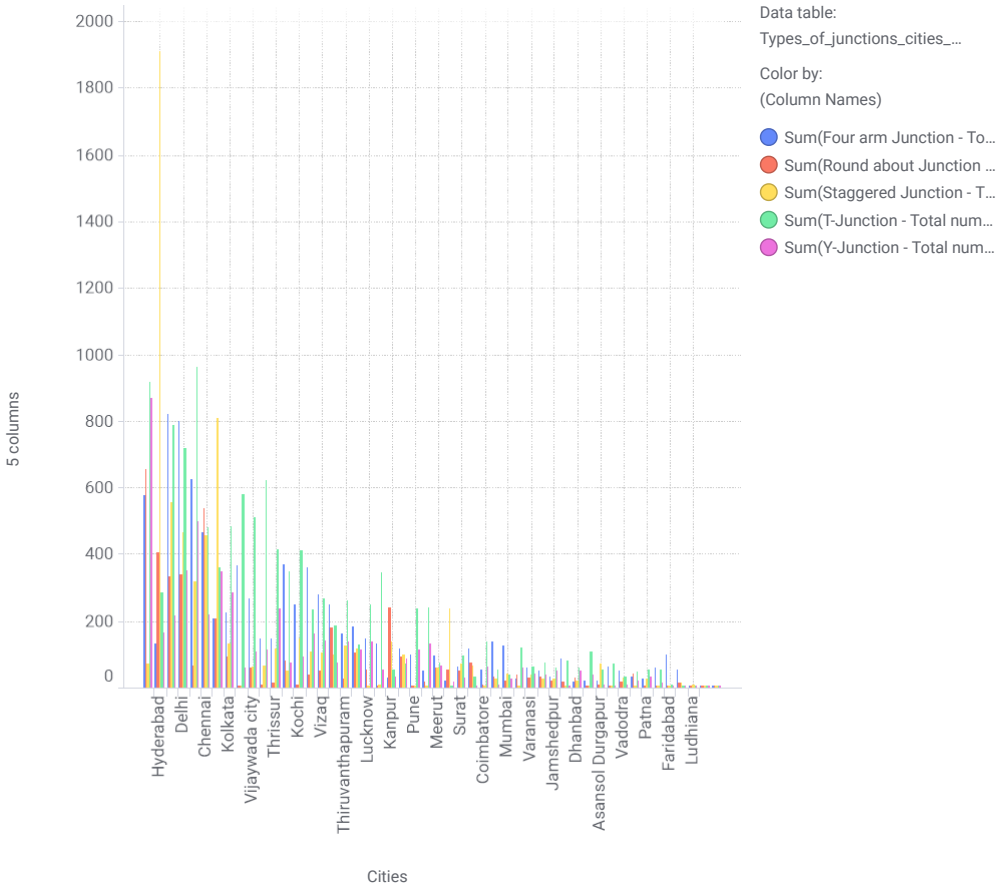
Marker by:
(Row Number)

Color by:
States/Uts

- Andaman and Nico...
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chattisgarh
- Dadra and Nagar H...
- Daman and Diu
- Delhi
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir

junction_types_per_cities

Road Accidents vs Junction Types in different cities - 2019



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KPI chart

Agra
1085,00
Sum(Total - Total number of Accidents)

Ahmedabad
1375,00
Sum(Total - Total number of Accidents)

Allahabad(Prayagraj)
1413,00
Sum(Total - Total number of Accidents)

Amritsar
133,00
Sum(Total - Total number of Accidents)

Asansol Durgapur
446,00
Sum(Total - Total number of Accidents)

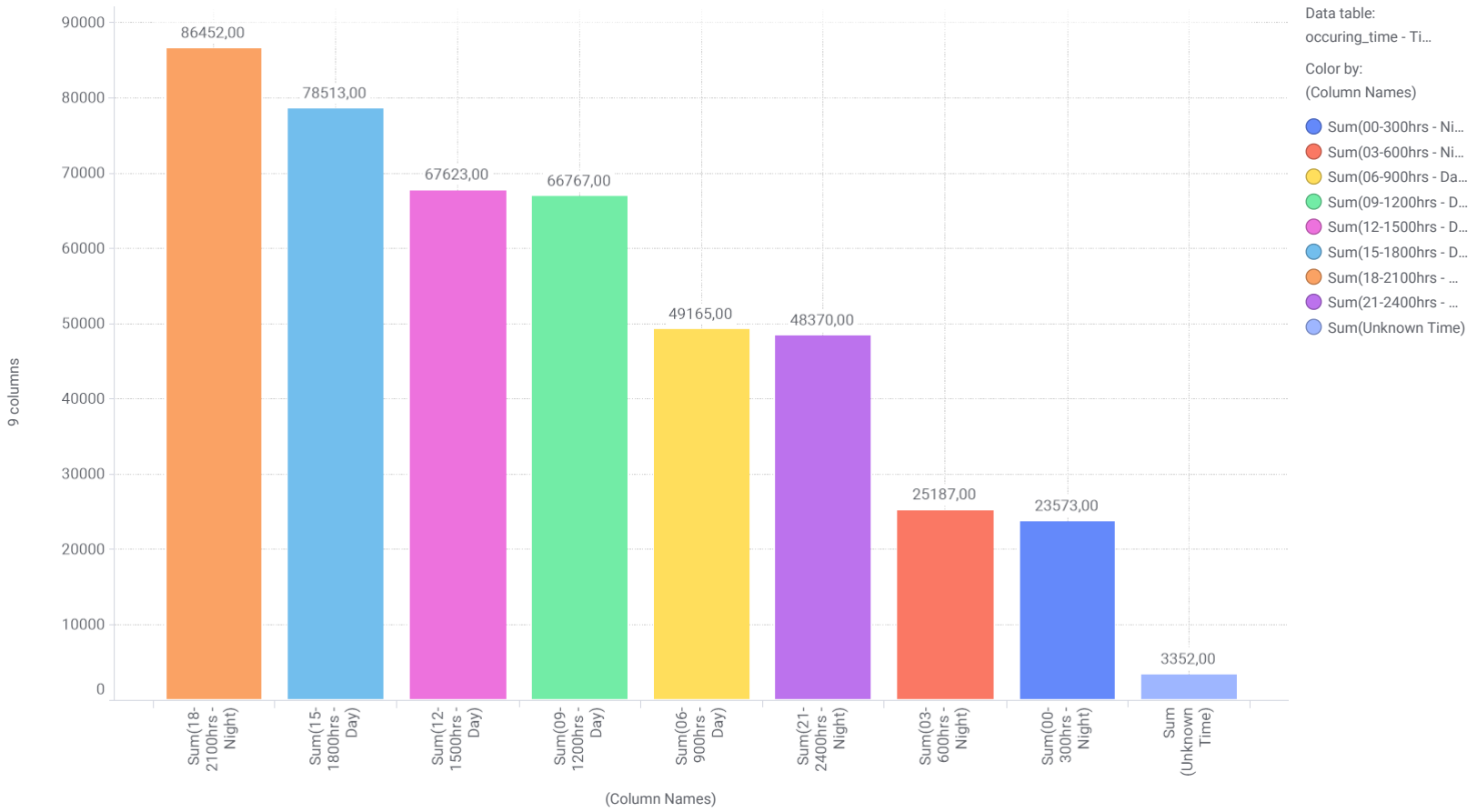
Aurangabad
560,00
Sum(Total - Total number of Accidents)

Bengaluru
4684,00

Bhopal
3287,00

time of the day

Road Accidents based on time



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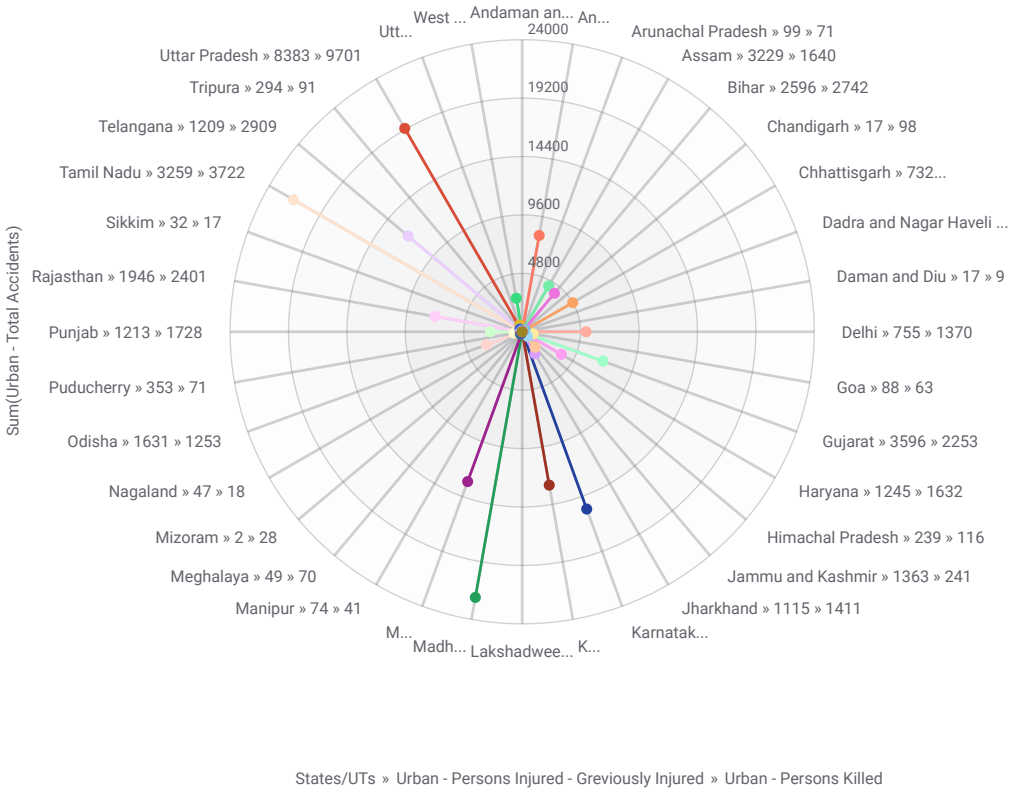
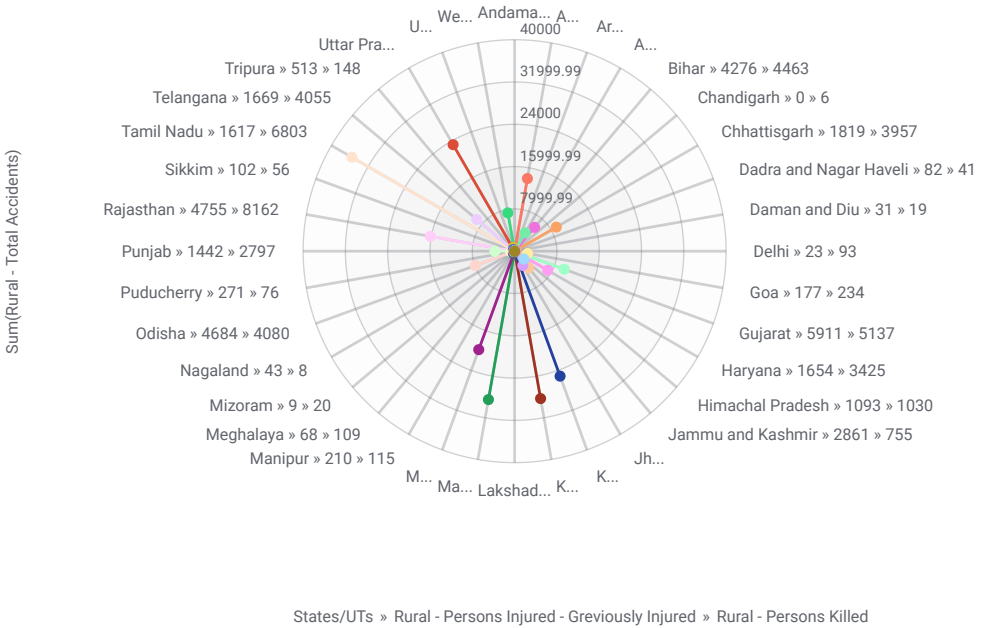
Deaths in urban and rural areas

Spider chart showing total number of accidents in urban area



Spider chart showing total number of accidents in rural area



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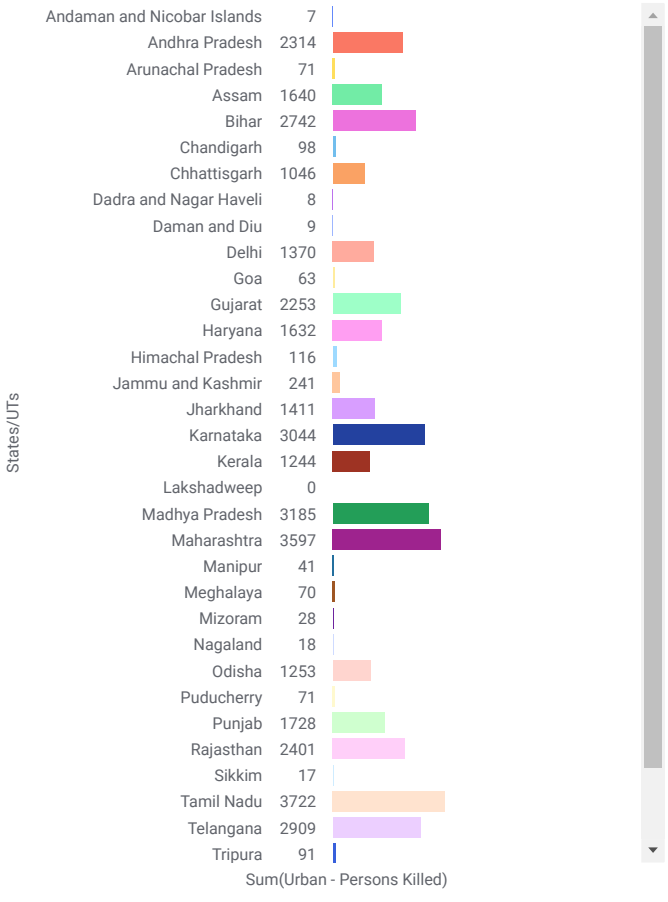
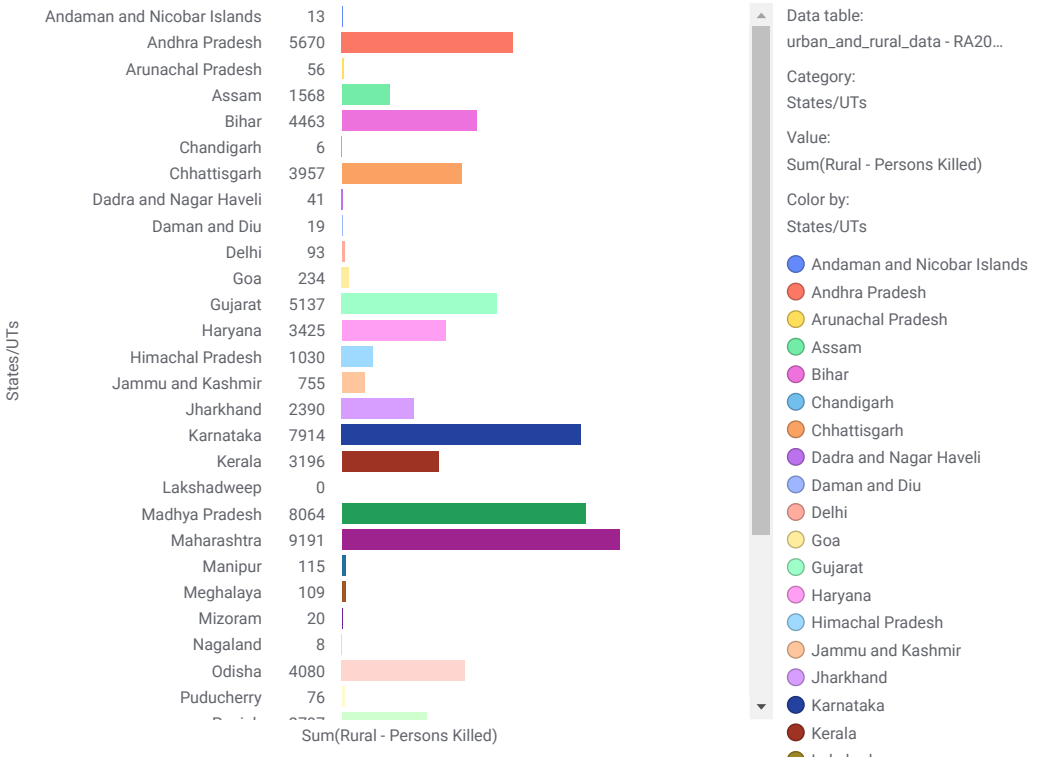
Death counts in urban and rural areas

Scrollable Bar Chart showing deaths in urban area



Scrollable Bar Chart showiing deaths in rural area



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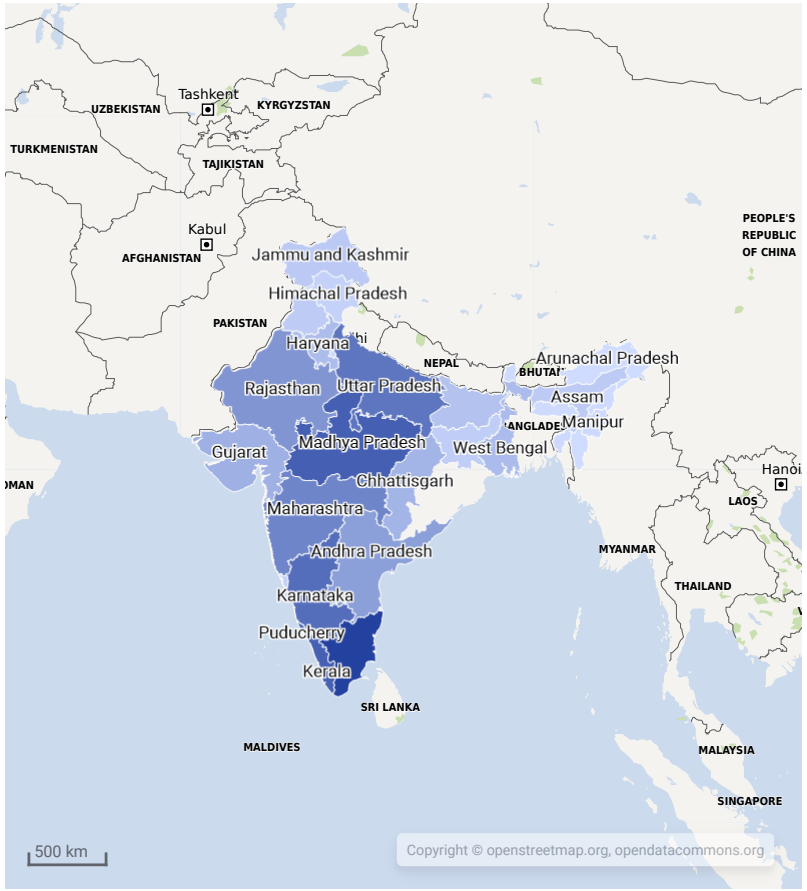
map-chart-rural-and-urban

States/UT wise accidents in rural areas



urban_and_rural_data - RA2019_A39 (1)

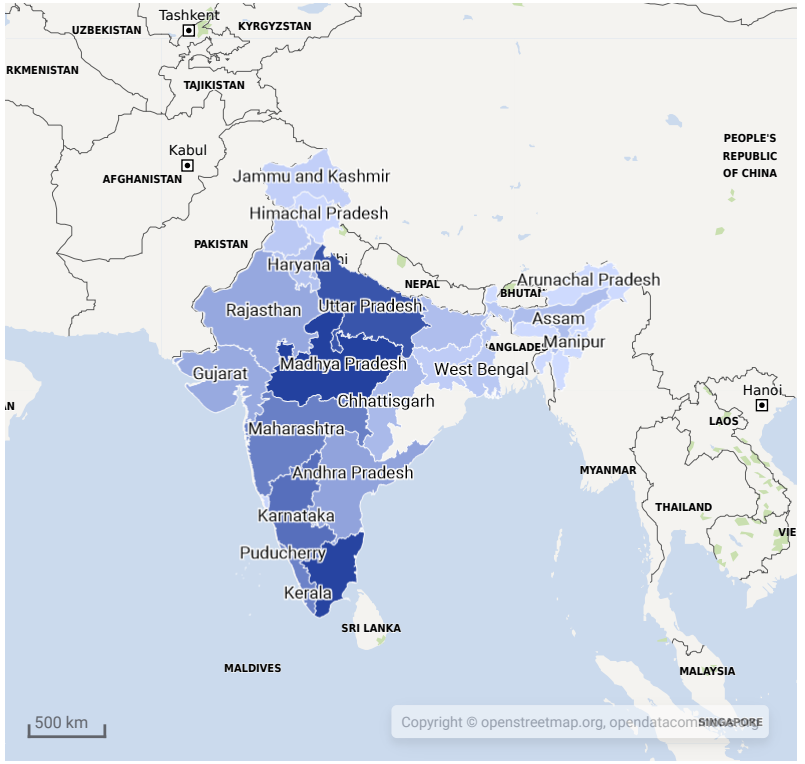
Data table:
urban_and_rural_da...

Feature by:
States/UTs » Country

Color by:
Sum(Rural - Total Ac...

- Max (35535,00)
- Min (1,00)

States/UT wise accicents in Urban areas



urban_and_rural_data - RA2019_A39 (1)

Data table:
urban_and_rural_da...

Feature by:
States/UTs » Country

Color by:
Sum(Urban - Total A...

- Max (22167,00)
- Min (0,00)

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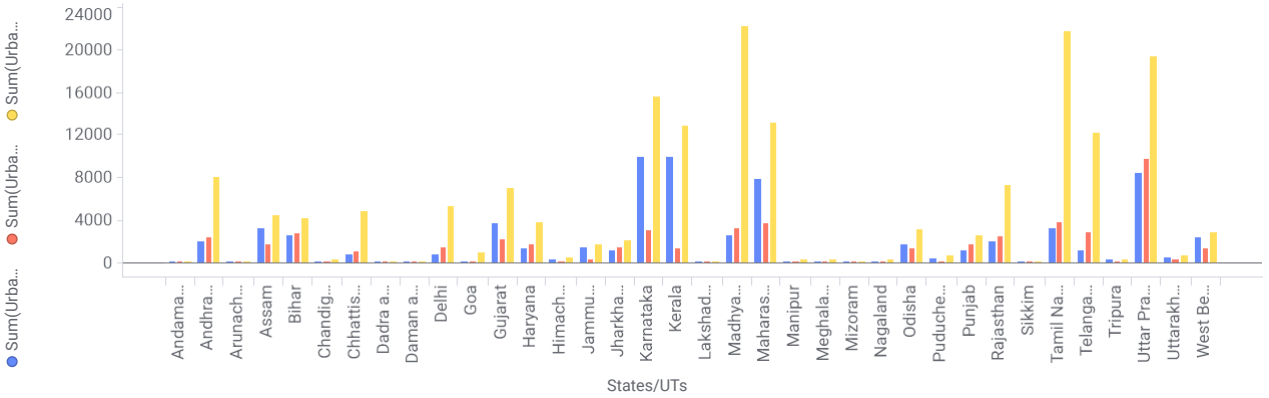
Greviously injured vs deaths in states/UT in urban and rural areas

Urban - Persons Injured - Greviously Injured, Urban - Persons Killed, Urban - Total Accidents per States/UTs



Data table:
urban_and_rural_data - RA2019_A39 (1)

Series by:
(Column Names)

- Sum(Urban - Persons Injured - Greviously Injured)
- Sum(Urban - Persons Killed)
- Sum(Urban - Total Accidents)

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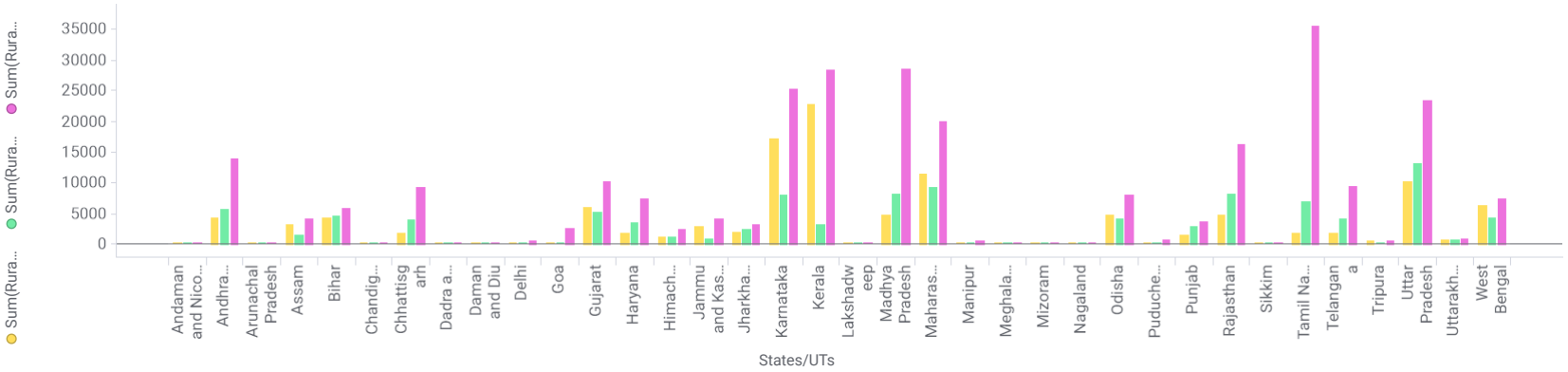
Rural - Persons Injured - Greviously Injured, Rural - Persons Killed, Rural - Total Accidents per States/UTs



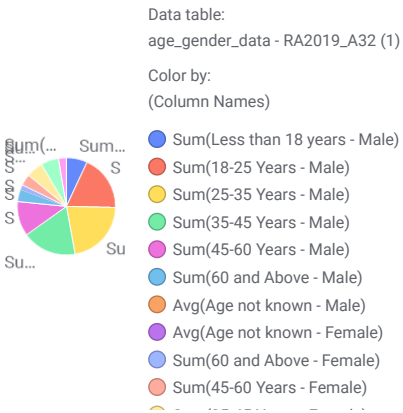
Data table:
urban_and_rural_data - RA2019_A39 (1)

Series by:
(Column Names)

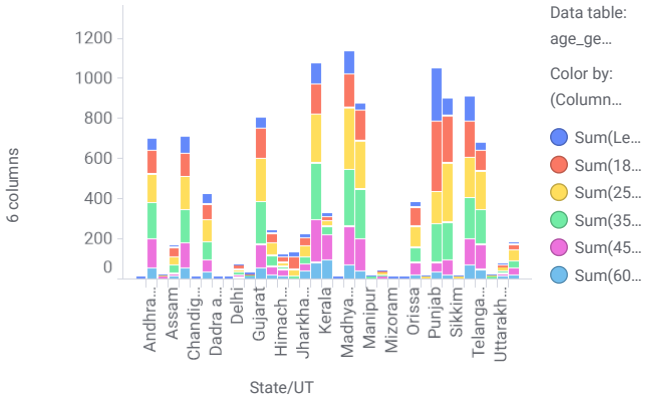
- Sum(Rural - Persons Injured - Greviously Injured)
- Sum(Rural - Persons Killed)
- Sum(Rural - Total Accidents)

Gender-wise accidents

Road Accidents Count based on Age and Gender Wise



Number of Females encountered Road Accidents



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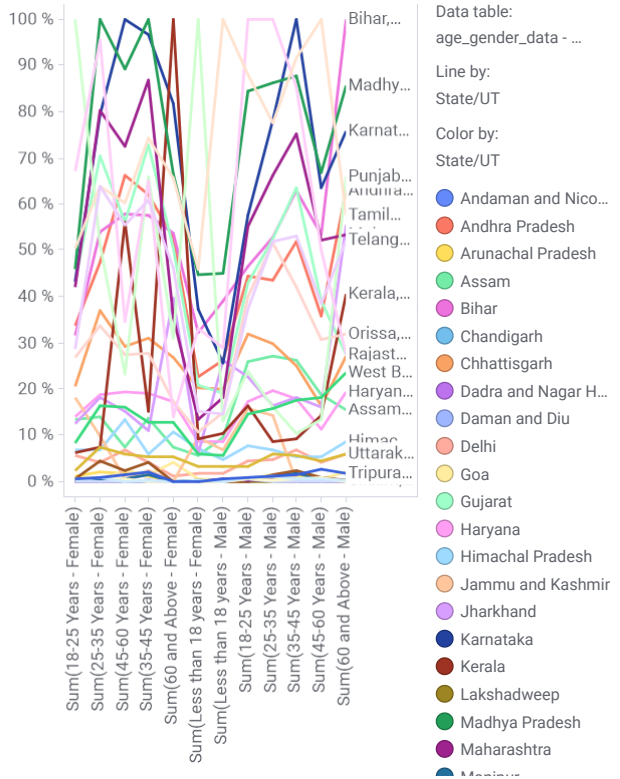
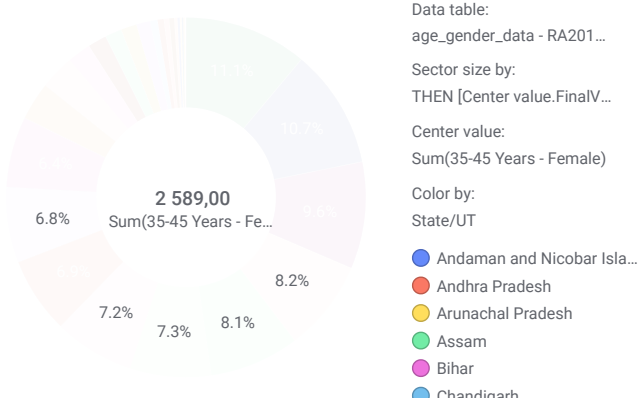
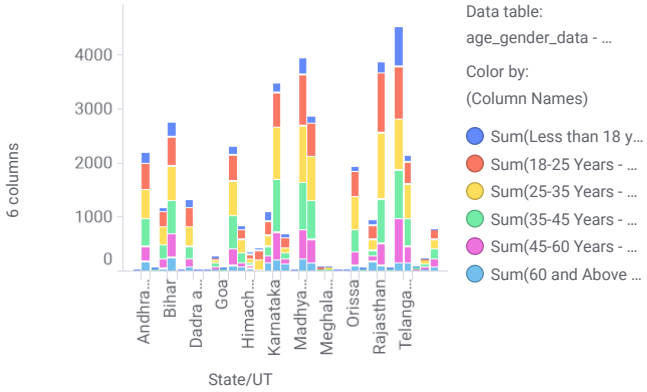
Gender and age vs total accidents



Donut chart to show the counts in each states



Number of Males encountered Road Accidents