





# **Report Overview**

This report was created for an overview quality diagnosis of . data. It was created for the purpose of judging the validity of variables before conducting EDA.

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# Overview

## **Data Structures**

division	metrics	value
size	observations	153,158
size	variables	18
size	values	2,756,844
size	memory size (MB)	20
duplicated	duplicate observation	0
missing	complete observation	153,158
missing	missing observation	0
missing	missing variables	0
missing	missing values	0

division	metrics	value
data type	numerics	0
data type	integers	16
data type	factors/ordered	0
data type	characters	2
data type	Dates	0
data type	POSIXcts	0
data type	others	0

Table 1: Data structures and types

#### **Job Informations**

metrics	value
dataset	
dataset type	data.frame
samples	153,158 / 153,158 (100%)
created	2023-08-09 17:17:49
created by	dlookr
	dataset dataset type samples created

Table 2: Job informations

## Warnings

checks	judgements	removes
17	19	1

Table 3: Summary of warnings

accident_year has constant value "2019" cardinality remove casualty_class has a low cardinality, 3 (0%) distinct values cardinality judgement sex_of_casualty has a low cardinality, 4 (0%) distinct values cardinality judgement casualty_severity has a low cardinality, 5 (0%) distinct values cardinality judgement car_passenger has a low cardinality, 5 (0%) distinct values cardinality judgement pedestrian_road_maintenance_worker has a low cardinality, 4 (0%) distinct values casualty_home_area_type has a low cardinality, 4 (0%) distinct values casualty_home_area_type has a low cardinality, 4 (0%) distinct values cardinality judgement pedestrian_road_maintenance_worker has 151,736 (99.07%) zeros zero check bus_or_coach_passenger has 150,334 (98.16%) zeros zero check pedestrian_location has 131,386 (85.79%) zeros zero check car_passenger has 125,535 (81.96%) zeros zero check car_passenger has 125,535 (81.96%) zeros zero check casualty_type has 21,770 (14.21%) zeros zero check casualty_type has 21,770 (14.21%) zeros zero check casualty_imd_decile has 15,372 (10.04%) negatives negative check casualty_home_area_type has 15,355 (10.03%) negatives negative check age_of_casualty has 3,255 (2.13%) negatives negative check sex_of_casualty has 724 (0.47%) negatives negative check car_passenger has 382 (0.25%) negatives negative check car_passenger has 382 (0.25%) negatives negative check car_passenger has 382 (0.25%) negatives negative check	warnings	status	recommand
sex_of_casualty has a low cardinality. 4 (0%) distinct values cardinality judgement casualty_severity has a low cardinality. 3 (0%) distinct values cardinality judgement pedestrian_road_maintenance_worker has a low cardinality. 4 (0%) distinct values cardinality judgement values  casualty_home_area_type has a low cardinality. 4 (0%) distinct values  casualty_home_area_type has a low cardinality. 4 (0%) distinct values  casualty_home_area_type has a low cardinality. 4 (0%) distinct values  cardinality judgement pedestrian_road_maintenance_worker has 151,736 (99.07%) zeros  zero check  bus_or_coach_passenger has 150,334 (98.16%) zeros  zero check  pedestrian_location has 131,388 (85.79%) zeros  zero check  car_passenger has 125,535 (81.96%) zeros  zero check  casualty_type has 21,770 (14.21%) zeros  zero check  casualty_type has 21,770 (14.21%) zeros  zero check  casualty_imd_decile has 15,372 (10.04%) negatives  negative check  casualty_home_area_type has 15,355 (10.03%) negatives  negative check  age_of_casualty has 3,255 (2.13%) negatives  negative check  sex_of_casualty has 724 (0.47%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check	accident_year has constant value "2019"	cardinality	remove
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car_passenger has a low cardinality. 5 (0%) distinct values  pedestrian_road_maintenance_worker has a low cardinality. 4 (0%) distinct values  casualty_home_area_type has a low cardinality. 4 (0%) distinct values  cardinality judgement  pedestrian_road_maintenance_worker has 151,736 (99.07%) zeros  zero check  bus_or_coach_passenger has 150,334 (98.16%) zeros  zero check  pedestrian_location has 131,388 (85.79%) zeros  zero check  pedestrian_movement has 131,386 (85.78%) zeros  zero check  car_passenger has 125,535 (81.96%) zeros  zero check  casualty_type has 21,770 (14.21%) zeros  zero check  age_of_casualty has 247 (0.16%) zeros  zero check  casualty_imd_decile has 15,372 (10.04%) negatives  negative check  age_of_casualty has 3,255 (2.13%) negatives  negative check  age_band_of_casualty has 3,255 (2.13%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check	sex_of_casualty has a low cardinality. 4 (0%) distinct values	cardinality	judgement
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pedestrian_location has 131,388 (85.79%) zeros zero check  pedestrian_movement has 131,386 (85.78%) zeros zero check  car_passenger has 125,535 (81.96%) zeros zero check  casualty_type has 21,770 (14.21%) zeros zero check  age_of_casualty has 247 (0.16%) zeros zero check  casualty_imd_decile has 15,372 (10.04%) negatives negative check  casualty_home_area_type has 15,355 (10.03%) negatives negative check  age_of_casualty has 3,255 (2.13%) negatives negative check  age_band_of_casualty has 3,255 (2.13%) negatives negative check  sex_of_casualty has 724 (0.47%) negatives negative check  car_passenger has 382 (0.25%) negatives negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	pedestrian_road_maintenance_worker has 151,736 (99.07%) zeros	zero	check
pedestrian_movement has 131,386 (85.78%) zeros zero check car_passenger has 125,535 (81.96%) zeros zero check casualty_type has 21,770 (14.21%) zeros zero check age_of_casualty has 247 (0.16%) zeros zero check casualty_imd_decile has 15,372 (10.04%) negatives negative check casualty_home_area_type has 15,355 (10.03%) negatives negative check age_of_casualty has 3,255 (2.13%) negatives negative check age_band_of_casualty has 3,255 (2.13%) negatives negative check sex_of_casualty has 724 (0.47%) negatives negative check car_passenger has 382 (0.25%) negatives negative check pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	bus_or_coach_passenger has 150,334 (98.16%) zeros	zero	check
car_passenger has 125,535 (81.96%) zeros zero check casualty_type has 21,770 (14.21%) zeros zero check age_of_casualty has 247 (0.16%) zeros zero check casualty_imd_decile has 15,372 (10.04%) negatives negative check casualty_home_area_type has 15,355 (10.03%) negatives negative check age_of_casualty has 3,255 (2.13%) negatives negative check age_band_of_casualty has 3,255 (2.13%) negatives negative check sex_of_casualty has 724 (0.47%) negatives negative check car_passenger has 382 (0.25%) negatives negative check pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	pedestrian_location has 131,388 (85.79%) zeros	zero	check
casualty_type has 21,770 (14.21%) zeros zero check  age_of_casualty has 247 (0.16%) zeros zero check  casualty_imd_decile has 15,372 (10.04%) negatives negative check  casualty_home_area_type has 15,355 (10.03%) negatives negative check  age_of_casualty has 3,255 (2.13%) negatives negative check  age_band_of_casualty has 3,255 (2.13%) negatives negative check  sex_of_casualty has 724 (0.47%) negatives negative check  car_passenger has 382 (0.25%) negatives negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	pedestrian_movement has 131,386 (85.78%) zeros	zero	check
age_of_casualty has 247 (0.16%) zeros zero check  casualty_imd_decile has 15,372 (10.04%) negatives negative check  casualty_home_area_type has 15,355 (10.03%) negatives negative check  age_of_casualty has 3,255 (2.13%) negatives negative check  age_band_of_casualty has 3,255 (2.13%) negatives negative check  sex_of_casualty has 724 (0.47%) negatives negative check  car_passenger has 382 (0.25%) negatives negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	car_passenger has 125,535 (81.96%) zeros	zero	check
casualty_imd_decile has 15,372 (10.04%) negatives  casualty_home_area_type has 15,355 (10.03%) negatives  age_of_casualty has 3,255 (2.13%) negatives  negative check  age_band_of_casualty has 3,255 (2.13%) negatives  negative check  sex_of_casualty has 724 (0.47%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives  negative check	casualty_type has 21,770 (14.21%) zeros	zero	check
casualty_home_area_type has 15,355 (10.03%) negatives  age_of_casualty has 3,255 (2.13%) negatives  age_band_of_casualty has 3,255 (2.13%) negatives  negative check  sex_of_casualty has 724 (0.47%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives  negative check	age_of_casualty has 247 (0.16%) zeros	zero	check
age_of_casualty has 3,255 (2.13%) negatives  age_band_of_casualty has 3,255 (2.13%) negatives  negative check  sex_of_casualty has 724 (0.47%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives  negative check	casualty_imd_decile has 15,372 (10.04%) negatives	negative	check
age_band_of_casualty has 3,255 (2.13%) negatives  negative check  sex_of_casualty has 724 (0.47%) negatives  negative check  car_passenger has 382 (0.25%) negatives  negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives  negative check	casualty_home_area_type has 15,355 (10.03%) negatives	negative	check
sex_of_casualty has 724 (0.47%) negatives  car_passenger has 382 (0.25%) negatives  negative check  pedestrian_road_maintenance_worker has 74 (0.05%) negatives  negative check	age_of_casualty has 3,255 (2.13%) negatives	negative	check
car_passenger has 382 (0.25%) negatives negative check pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	age_band_of_casualty has 3,255 (2.13%) negatives	negative	check
pedestrian_road_maintenance_worker has 74 (0.05%) negatives negative check	sex_of_casualty has 724 (0.47%) negatives	negative	check
	car_passenger has 382 (0.25%) negatives	negative	check
hus an arask passage (1/0.049/) passking	pedestrian_road_maintenance_worker has 74 (0.05%) negatives	negative	check
bus_or_coacn_passenger has 61 (0.04%) negatives negative check	bus_or_coach_passenger has 61 (0.04%) negatives	negative	check

Table 4: Warnings in dataset and variables

	warnings	status	recommand
	warnings	status	recommand
23	casualty_type has 5 (0%) negatives	negative	check
24	pedestrian_location has 1 (0%) negatives	negative	check
25	casualty_home_area_type has 42,006 (27.43%) outliers	outlier	judgement
26	casualty_reference has 36,854 (24.06%) outliers	outlier	judgement
27	car_passenger has 27,623 (18.04%) outliers	outlier	judgement
28	casualty_severity has 27,125 (17.71%) outliers	outlier	judgement
29	pedestrian_movement has 21,772 (14.22%) outliers	outlier	judgement
30	pedestrian_location has 21,770 (14.21%) outliers	outlier	judgement
31	age_band_of_casualty has 3,255 (2.13%) outliers	outlier	judgement
32	bus_or_coach_passenger has 2,824 (1.84%) outliers	outlier	judgement
33	pedestrian_road_maintenance_worker has 1,422 (0.93%) outliers	outlier	judgement
34	casualty_type has 1,124 (0.73%) outliers	outlier	judgement
35	vehicle_reference has 991 (0.65%) outliers	outlier	judgement
36	sex_of_casualty has 733 (0.48%) outliers	outlier	judgement
37	age_of_casualty has 178 (0.12%) outliers	outlier	judgement

Table 4: Warnings in dataset and variables (continued)

#### **Variables**

variables	types	missing	cardinality	zero	minus	outlier
accident_index	character					
accident_year	integer		constant			
accident_reference	character		> high			
vehicle_reference	integer					X
casualty_reference	integer					X
casualty_class	integer		< low			
sex_of_casualty	integer		< low		Х	Х
age_of_casualty	integer			Х	Χ	X
age_band_of_casualty	integer				Χ	X
casualty_severity	integer		< low			X
pedestrian_location	integer			Х	Χ	X
pedestrian_movement	integer			Х		X
car_passenger	integer		< low	Х	Χ	X
bus_or_coach_passenger	integer			Х	Χ	X
pedestrian_road_maintenance_worker	integer		< low	Х	Х	X
casualty_type	integer			Х	Х	X
casualty_home_area_type	integer		< low		Х	Х
casualty_imd_decile	integer				Х	

Table 5: List of variables diagnosis

# Missing Values List of Missing Values

No variables including missing values

#### Visualization

No variables including missing values

# **Unique Values**

## **Categorical Vaiables**

Variables where the proportion of unique data is more than 0.5 or unique is 1.

variables	types	unique	unique (%)	status	recommand
accident_reference	character	117,536	76.7%	high cardinality	Judgment

Table 6: Detail warning categorical cardinality

## **Numerical Vaiables**

Variables where the unique cases is less than 5 or unique is 1.

variables	types	unique	unique (%)	status	recommand
accident_year	integer	1	0%	constant	Remove Variable
casualty_class	integer	3	0%	low cardinality	Judgment
sex_of_casualty	integer	4	0%	low cardinality	Judgment
casualty_severity	integer	3	0%	low cardinality	Judgment
car_passenger	integer	5	0%	low cardinality	Judgment
pedestrian_road_maintenance_worker	integer	4	0%	low cardinality	Judgment
casualty_home_area_type	integer	4	0%	low cardinality	Judgment

Table 7: Detail warning numerical cardinality

# **Categorical Variable Diagnosis**

## **Top Ranks**

variables	levels	freq	ratio (%)
accident_index	2.01901E+12	29,745	19.4
accident_index	2.0192E+12	7,325	4.8
accident_index	2.01946E+12	5,718	3.7
accident_index	2.01947E+12	5,276	3.4
accident_index	2.0195E+12	4,691	3.1
accident_index	2.01943E+12	4,588	3.0
accident_index	2.01944E+12	4,580	3.0
accident_index	2.01914E+12	4,207	2.7
accident_index	2.01904E+12	4,124	2.7
accident_index	2.01945E+12	3,913	2.6
accident_index	Other levles	78,991	51.6
accident_reference	500885809	52	0.0
accident_reference	220855375	25	0.0
accident_reference	350900122	20	0.0
accident_reference	410889448	19	0.0
accident_reference	440129002	19	0.0
accident_reference	136AT1088	16	0.0
accident_reference	1369T0667	13	0.0
accident_reference	140838359	13	0.0
accident_reference	200843528	13	0.0
accident_reference	370923383	13	0.0
accident_reference	Other levles	152,955	99.9

Table 8: Top 10 levels of categorical variables

# Numerical Variable Diagnosis

#### **Distributions**

variables	min	Q1	mean	median	Q3	max	zero	minus	outlier
accident_year	2,019	2,019	2,019.00	2,019	2,019	2,019	0	0	

Table 9: General list of numerical diagnosis

variables	min	Q1	mean	median	Q3	max	zero	minus	outlier
0									
vehicle_reference	1	1	1.46	1	2	20	0	0	991
casualty_reference	1	1	1.39	1	1	991	0	0	36,854
casualty_class	1	1	1.49	1	2	3	0	0	0
sex_of_casualty	-1	1	1.39	1	2	9	0	724	733
age_of_casualty	-1	22	36.93	34	50	102	247	3,255	178
age_band_of_casualty	-1	5	6.32	6	8	11	0	3,255	3,255
casualty_severity	1	3	2.81	3	3	3	0	0	27,125
pedestrian_location	-1	0	0.76	0	0	10	131,388	1	21,770
pedestrian_movement	0	0	0.60	0	0	9	131,386	0	21,772
car_passenger	-1	0	0.25	0	0	9	125,535	382	27,623
bus_or_coach_passenger	-1	0	0.06	0	0	9	150,334	61	2,824
pedestrian_road_maintenance_worker	-1	0	0.02	0	0	2	151,736	74	1,422
casualty_type	-1	1	7.14	9	9	98	21,770	5	1,124
casualty_home_area_type	-1	1	1.07	1	1	3	0	15,355	42,006
casualty_imd_decile	-1	2	4.38	4	7	10	0	15,372	0

#### **Zero Values**

variables	min	median	max	zero	zero (%)
pedestrian_road_maintenance_worker	-1	0	2	151,736	99.1
bus_or_coach_passenger	-1	0	9	150,334	98.2
pedestrian_location	-1	0	10	131,388	85.8
pedestrian_movement	0	0	9	131,386	85.8
car_passenger	-1	0	9	125,535	82.0
casualty_type	-1	9	98	21,770	14.2
age_of_casualty	-1	34	102	247	0.2

Table 10: List of numerical diagnosis (zero)

## **Negative Values**

variables	min	median	max	minus	minus (%)
casualty_imd_decile	-1	4	10	15,372	10.0
casualty_home_area_type	-1	1	3	15,355	10.0
age_of_casualty	-1	34	102	3,255	2.1
age_band_of_casualty	-1	6	11	3,255	2.1
sex_of_casualty	-1	1	9	724	0.5
car_passenger	-1	0	9	382	0.2
pedestrian_road_maintenance_worker	-1	0	2	74	0.0
bus_or_coach_passenger	-1	0	9	61	0.0
casualty_type	-1	9	98	5	0.0
pedestrian_location	-1	0	10	1	0.0

Table 11: List of numerical diagnosis (minus)

#### **Outliers**

#### **List of Outliers**

variables	min	median	max	outlier	outlier (%)
casualty_home_area_type	-1	1	3	42,006	27.4
casualty_reference	1	1	991	36,854	24.1
car_passenger	-1	0	9	27,623	18.0
casualty_severity	1	3	3	27,125	17.7
pedestrian_movement	0	0	9	21,772	14.2
pedestrian_location	-1	0	10	21,770	14.2
age_band_of_casualty	-1	6	11	3,255	2.1
bus_or_coach_passenger	-1	0	9	2,824	1.8
pedestrian_road_maintenance_worker	-1	0	2	1,422	0.9
casualty_type	-1	9	98	1,124	0.7
vehicle_reference	1	1	20	991	0.6
sex_of_casualty	-1	1	9	733	0.5
age_of_casualty	-1	34	102	178	0.1

Table 12: Diagnosis of numerical variable outliers

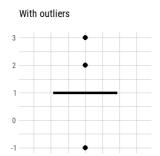
#### **Individual Outliers**

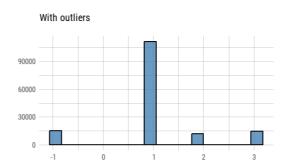
## variable: casualty\_home\_area\_type

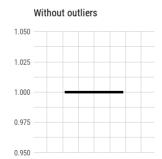
Measures	Values
Outliers count	42,006
Outliers ratio (%)	27.43%
Mean of outliers	1.256392
Mean with outliers	1.07032
Mean without outliers	1

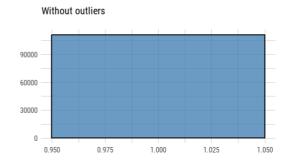
Table 13: casualty\_home\_area\_type

#### Outlier Diagnosis Plot (casualty\_home\_area\_type)







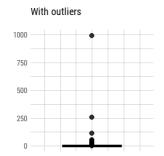


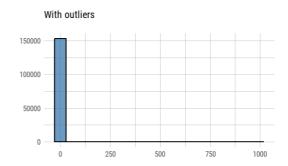
## variable: casualty\_reference

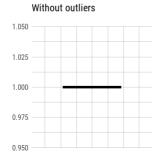
Measures	Values
Outliers count	36,854
Outliers ratio (%)	24.06%
Mean of outliers	2.637109
Mean with outliers	1.393933
Mean without outliers	1

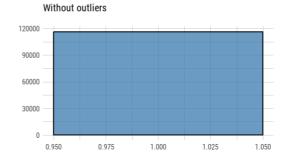
Table 13: casualty\_reference

#### Outlier Diagnosis Plot (casualty\_reference)







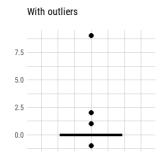


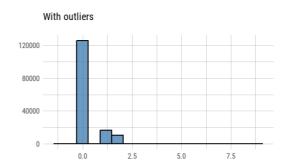
#### variable: car\_passenger

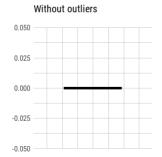
Measures	Values
Outliers count	27,623
Outliers ratio (%)	18.04%
Mean of outliers	1.401875
Mean with outliers	0.2528369
Mean without outliers	0

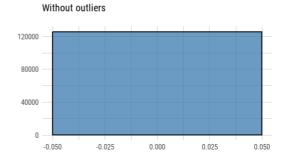
Table 13: car\_passenger

#### Outlier Diagnosis Plot (car\_passenger)









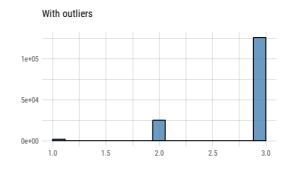
## variable: casualty\_severity

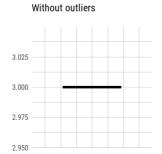
Measures	Values
Outliers count	27,125
Outliers ratio (%)	17.71%
Mean of outliers	1.93541
Mean with outliers	2.811456
Mean without outliers	3

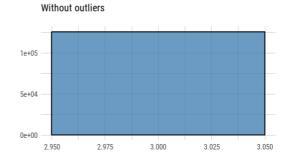
Table 13: casualty\_severity

#### Outlier Diagnosis Plot (casualty\_severity)







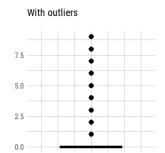


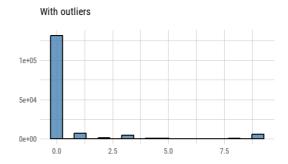
## variable: pedestrian\_movement

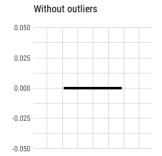
Measures	Values
Outliers count	21,772
Outliers ratio (%)	14.22%
Mean of outliers	4.220283
Mean with outliers	0.5999295
Mean without outliers	0

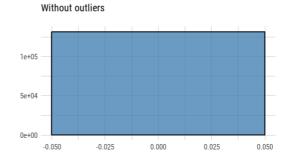
Table 13: pedestrian\_movement

#### Outlier Diagnosis Plot (pedestrian\_movement)









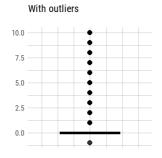
## variable: pedestrian\_location

Measures	Values
Outliers count	21,770
Outliers ratio (%)	14.21%
Mean of outliers	5.351814
Mean with outliers	0.7607112
Mean without outliers	0

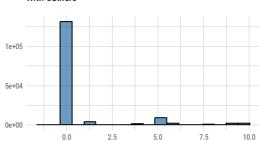
Table 13: pedestrian\_location

#### Outlier Diagnosis Plot (pedestrian\_location)

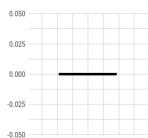




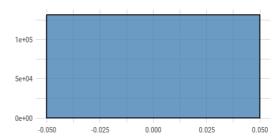
#### With outliers



#### Without outliers



#### Without outliers

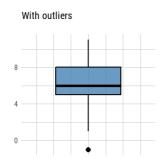


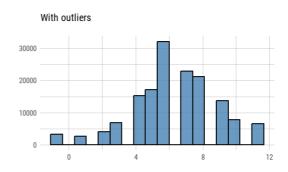
## variable: age\_band\_of\_casualty

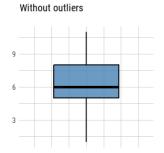
Measures	Values
Outliers count	3,255
Outliers ratio (%)	2.13%
Mean of outliers	-1
Mean with outliers	6.322347
Mean without outliers	6.481345

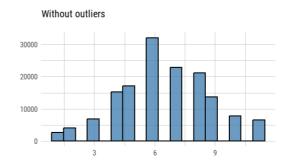
Table 13: age\_band\_of\_casualty

#### Outlier Diagnosis Plot (age\_band\_of\_casualty)







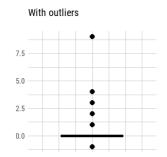


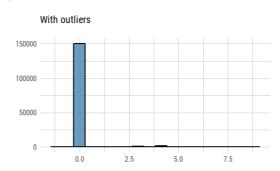
## variable: bus\_or\_coach\_passenger

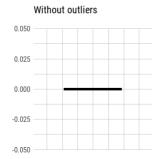
Measures	Values
Outliers count	2,824
Outliers ratio (%)	1.84%
Mean of outliers	3.479816
Mean with outliers	0.0641625
Mean without outliers	0

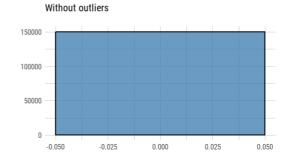
Table 13: bus\_or\_coach\_passenger

#### Outlier Diagnosis Plot (bus\_or\_coach\_passenger)







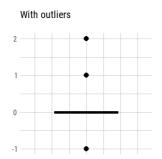


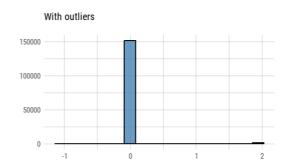
## variable: pedestrian\_road\_maintenance\_worker

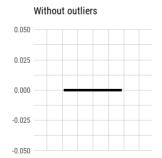
Measures	Values
Outliers count	1,422
Outliers ratio (%)	0.93%
Mean of outliers	1.786217
Mean with outliers	0.01658418
Mean without outliers	0

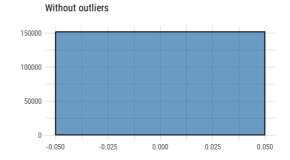
Table 13: pedestrian\_road\_maintenance\_worker

#### Outlier Diagnosis Plot (pedestrian\_road\_maintenance\_worker)







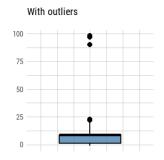


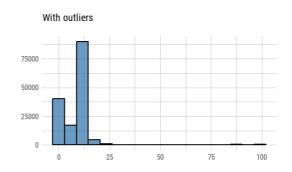
## variable: casualty\_type

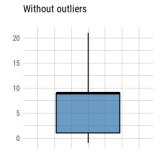
Measures	Values
Outliers count	1,124
Outliers ratio (%)	0.73%
Mean of outliers	76.57384
Mean with outliers	7.141148
Mean without outliers	6.627827

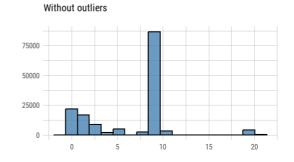
Table 13: casualty\_type

#### Outlier Diagnosis Plot (casualty\_type)







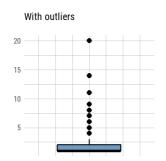


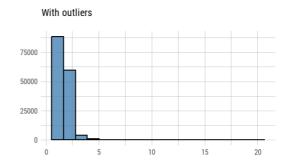
## variable: vehicle\_reference

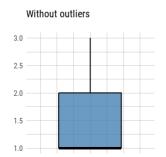
Measures	Values
Outliers count	991
Outliers ratio (%)	0.65%
Mean of outliers	4.526741
Mean with outliers	1.46484
Mean without outliers	1.444899

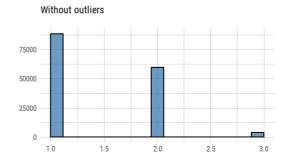
Table 13: vehicle\_reference

#### Outlier Diagnosis Plot (vehicle\_reference)







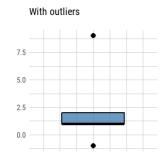


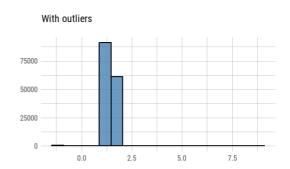
## variable: sex\_of\_casualty

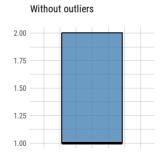
Measures	Values
Outliers count	733
Outliers ratio (%)	0.48%
Mean of outliers	-0.8772169
Mean with outliers	1.390342
Mean without outliers	1.401247

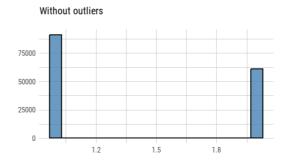
Table 13: sex\_of\_casualty

#### Outlier Diagnosis Plot (sex\_of\_casualty)









## variable: age\_of\_casualty

Measures	Values
Outliers count	178
Outliers ratio (%)	0.12%
Mean of outliers	94.54494
Mean with outliers	36.93261
Mean without outliers	36.86558

Table 13: age\_of\_casualty

#### Outlier Diagnosis Plot (age\_of\_casualty)

