

Data Science Lab 2

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CLASSIFICATION

1 DATA PROFILING

Data Dimensionality

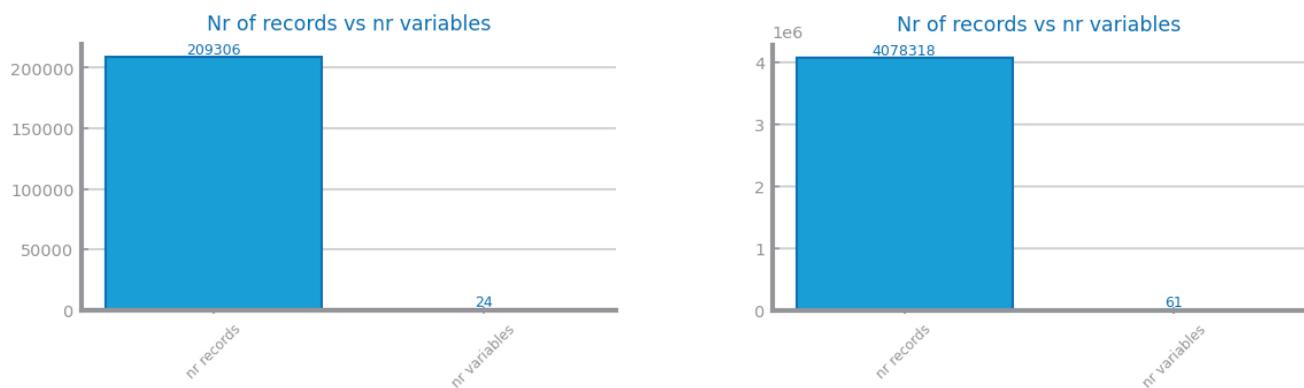


Figure 1: Nr Records x Nr variables for Traffic Accident Data (left) and Flight Cancellation Data (right)

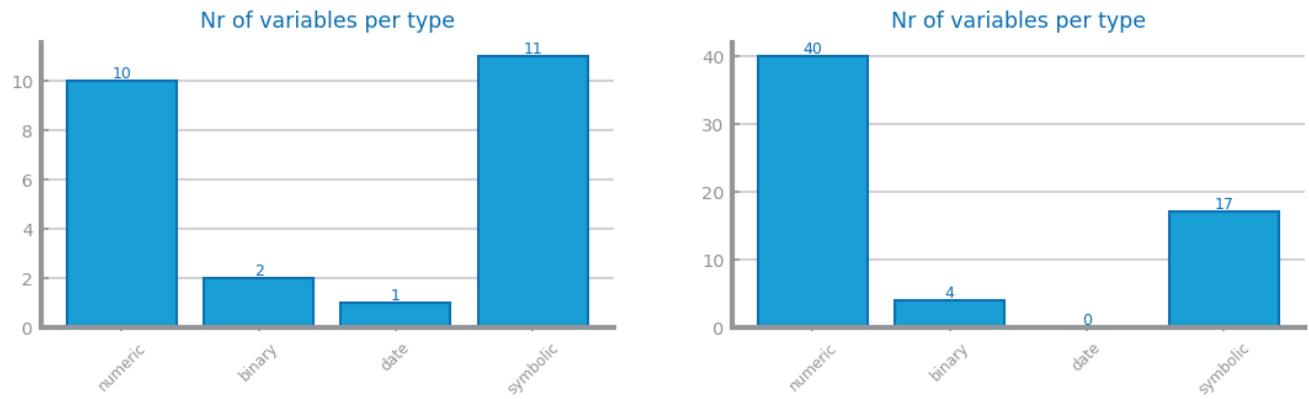


Figure 2: Nr variables per type for Traffic Accident Data (left) and Flight Cancellation Data (right)

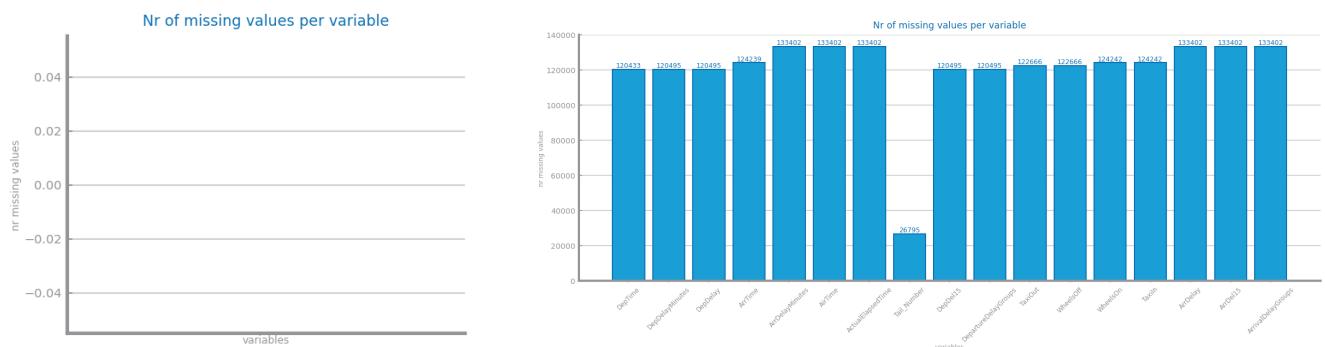


Figure 3: Nr missing values for Traffic Accident Data (left) and Flight Cancellation Data (right)

Data Distribution

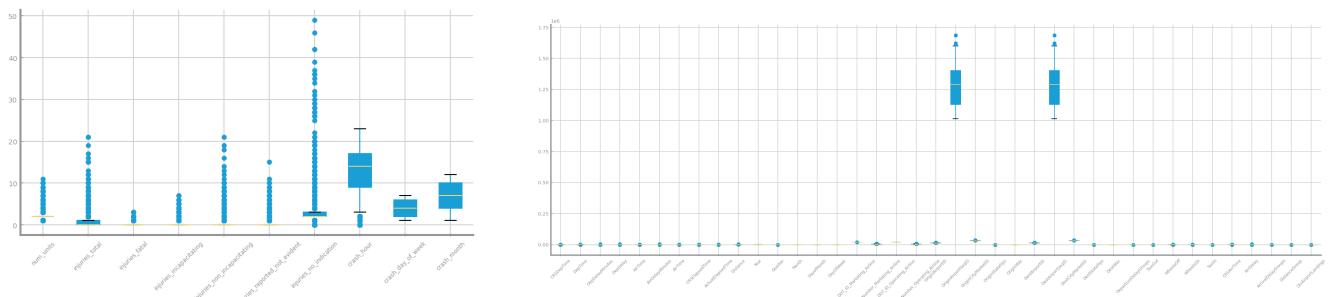


Figure 4: Global boxplots for Traffic Accident Data (left) and Flight Cancellation Data (right)

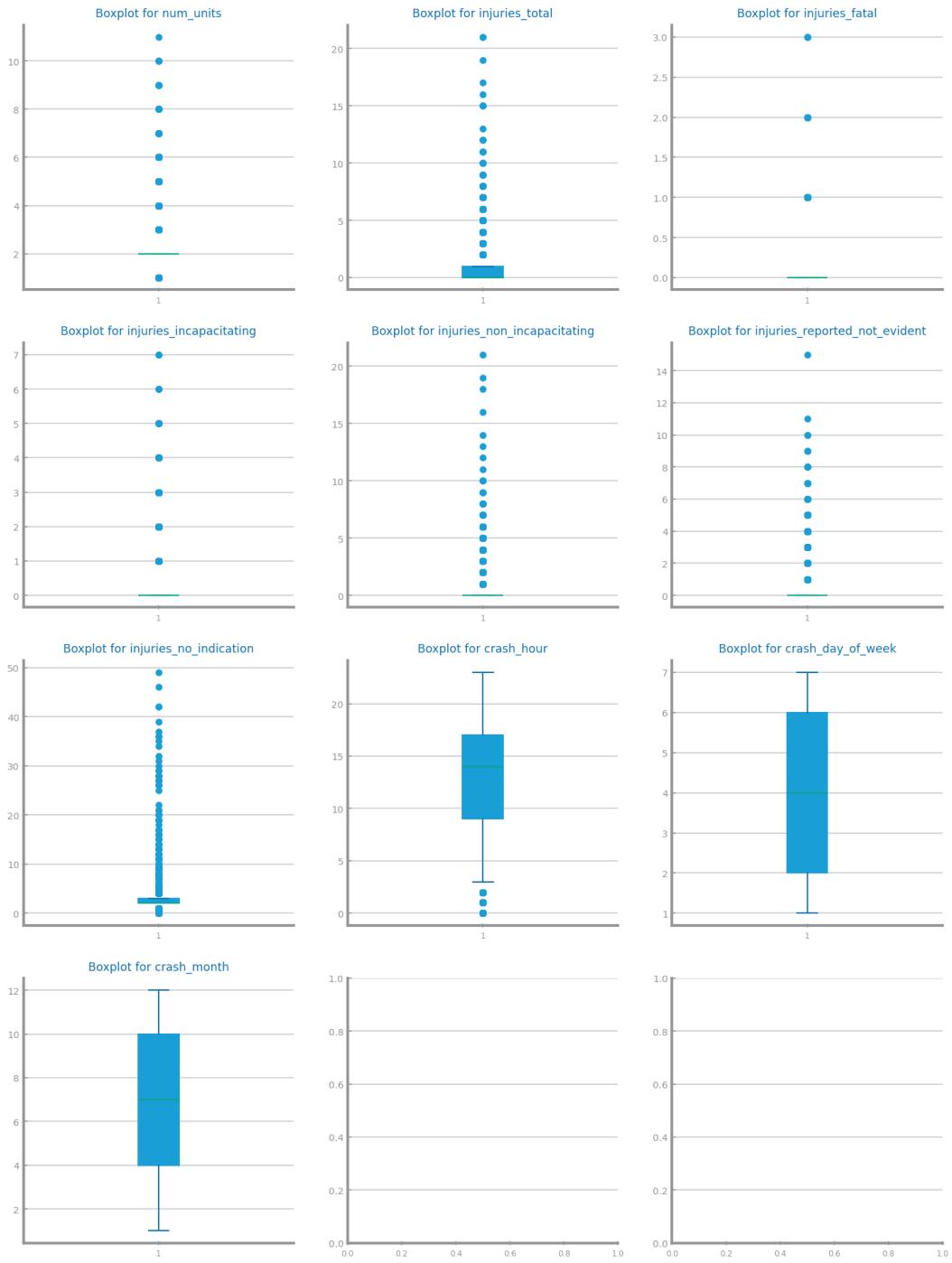


Figure 5: Single variables boxplots for Traffic Accident Data



Figure 6: Single variables boxplots for Flight Cancellation Data

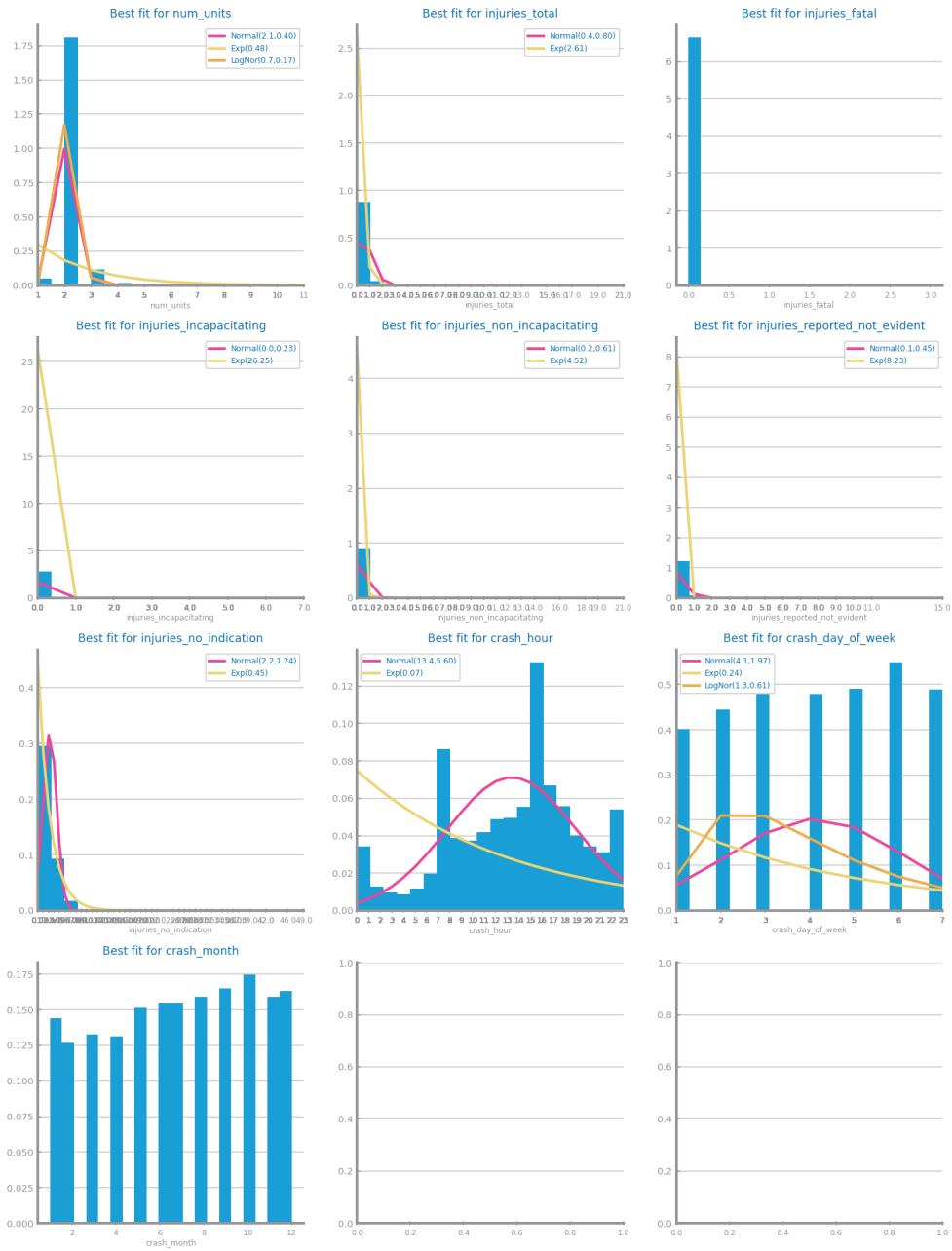


Figure 7: Histograms for Traffic Accident Data - numeric

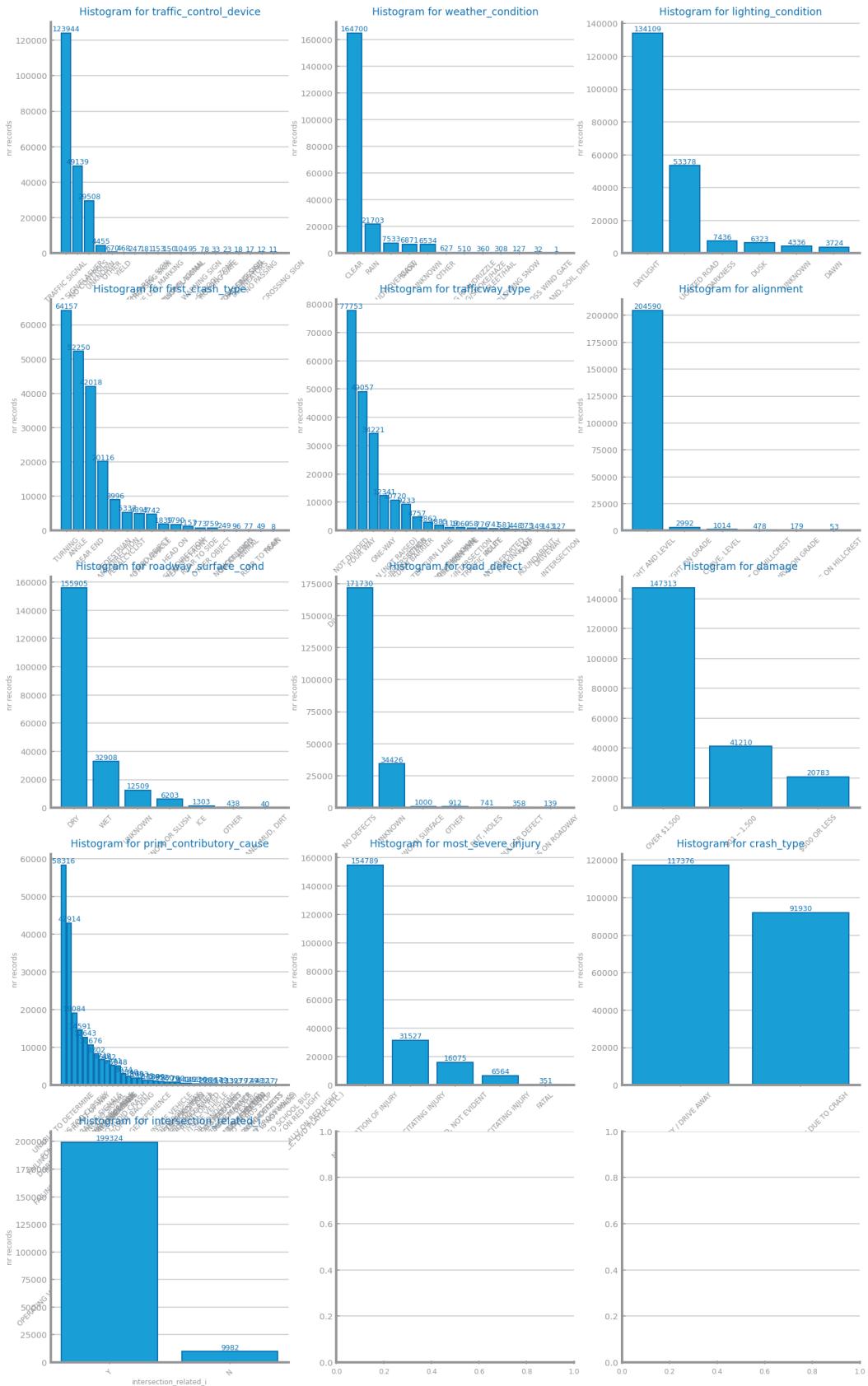


Figure 8: Histograms for Traffic Accident Data - symbolic

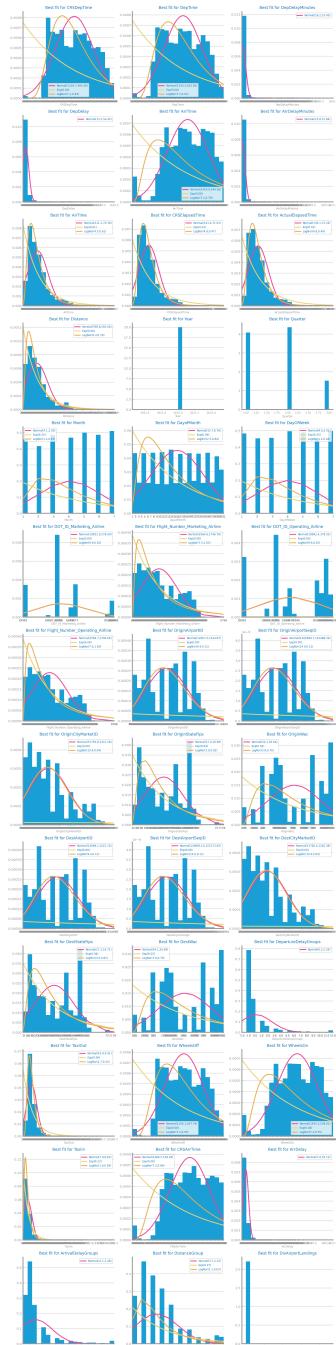


Figure 9: Histograms for Flight Cancellation Data - numeric

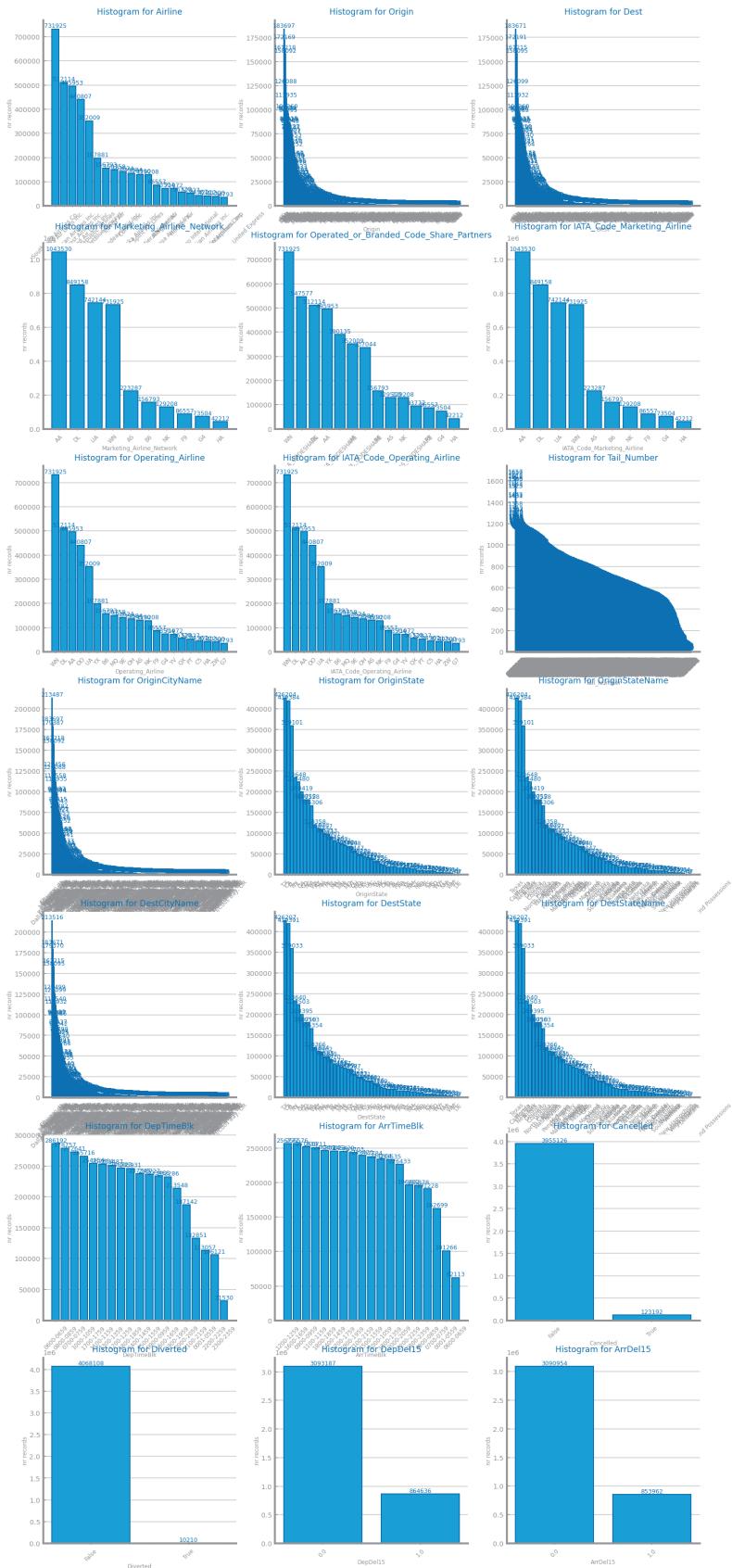
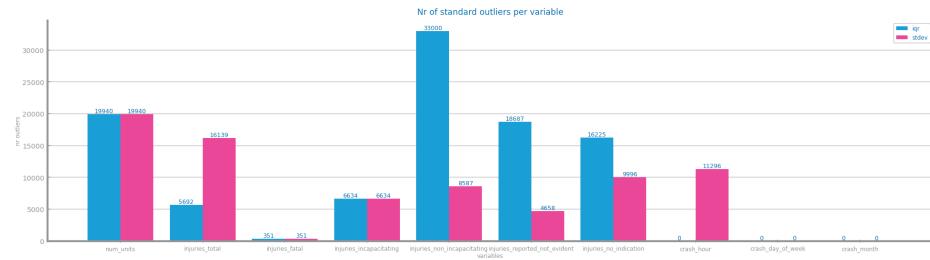
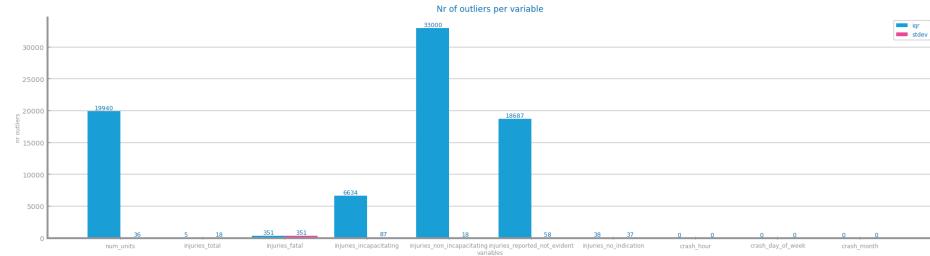


Figure 10: Histograms for Flight Cancellation Data - symbolic

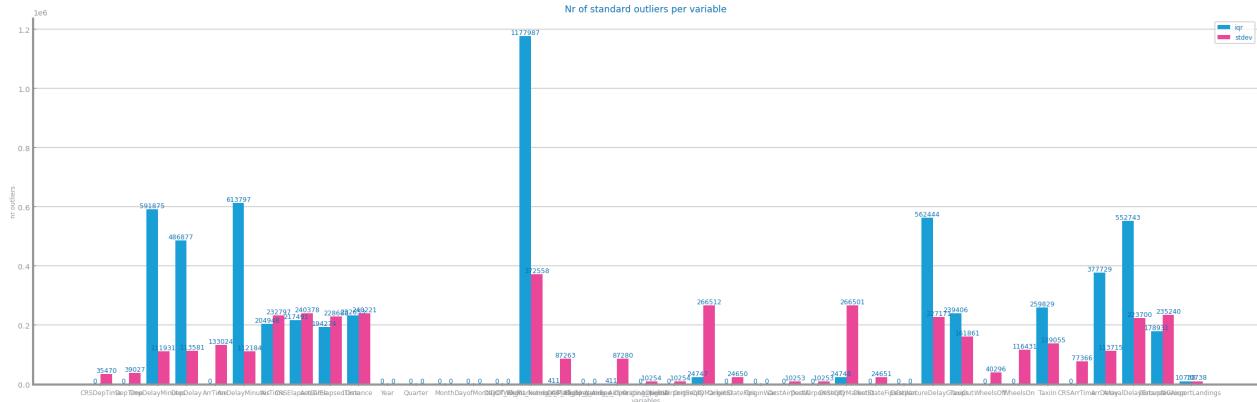


(a) standard

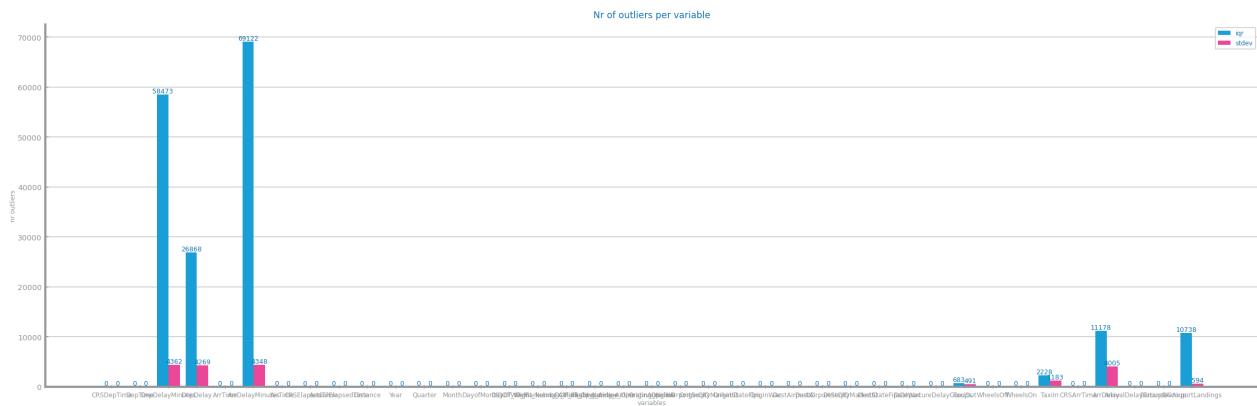


(b) tuned

Figure 11: Outliers study Traffic Accident Data



(a) standard



(b) tuned

Figure 12: Outliers study Flight Cancellation Data

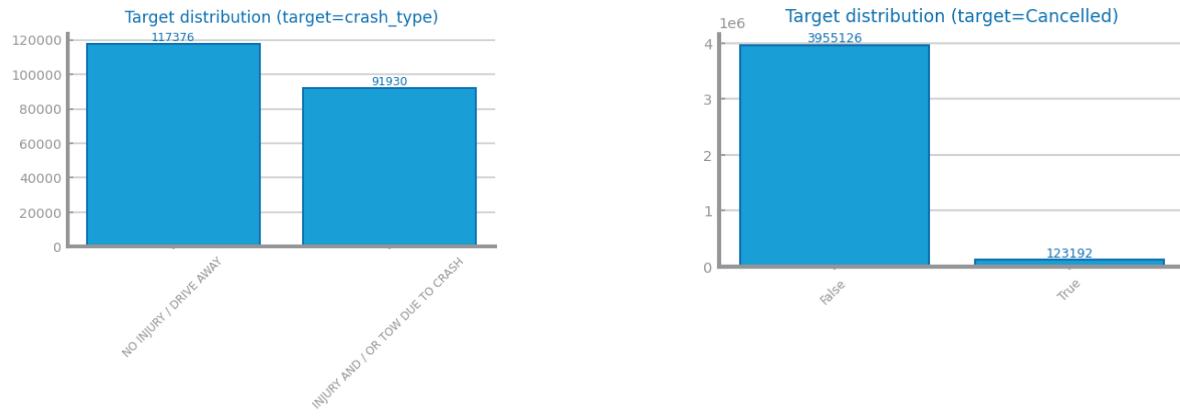


Figure 13: Class distribution for Traffic Accident Data (left) and Flight Cancellation Data (right)

Data Granularity

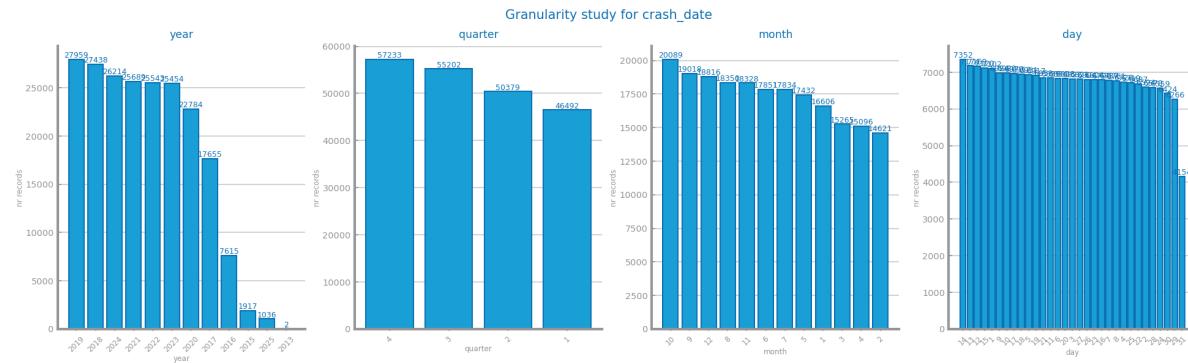


Figure 14: Granularity analysis for Traffic Accident Data

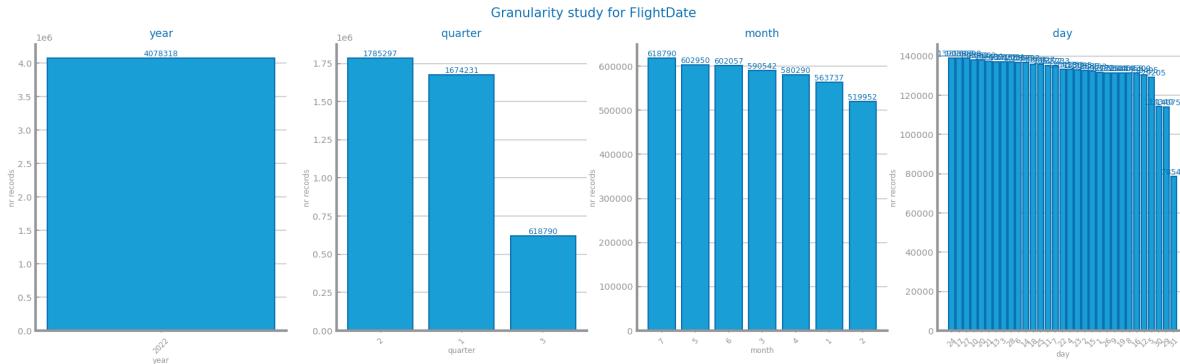


Figure 15: Granularity analysis for Flight Cancellation Data

Data Sparsity

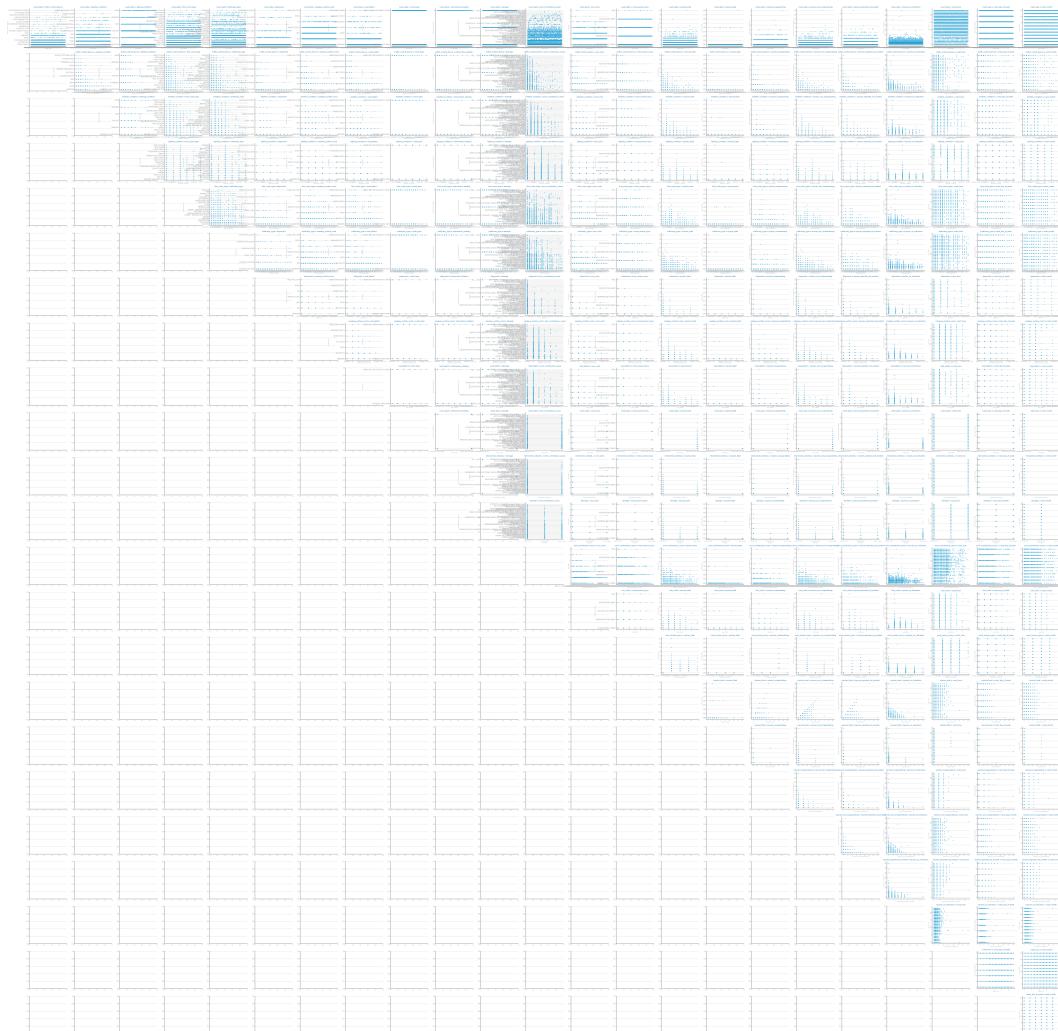


Figure 16: Sparsity analysis for Traffic Accident Data



Figure 17: Sparsity analysis per class for Traffic Accident Data

LINK

Figure 18: Sparsity analysis for Flight Cancellation Data

LINK

Figure 19: Sparsity analysis per class for Flight Cancellation Data

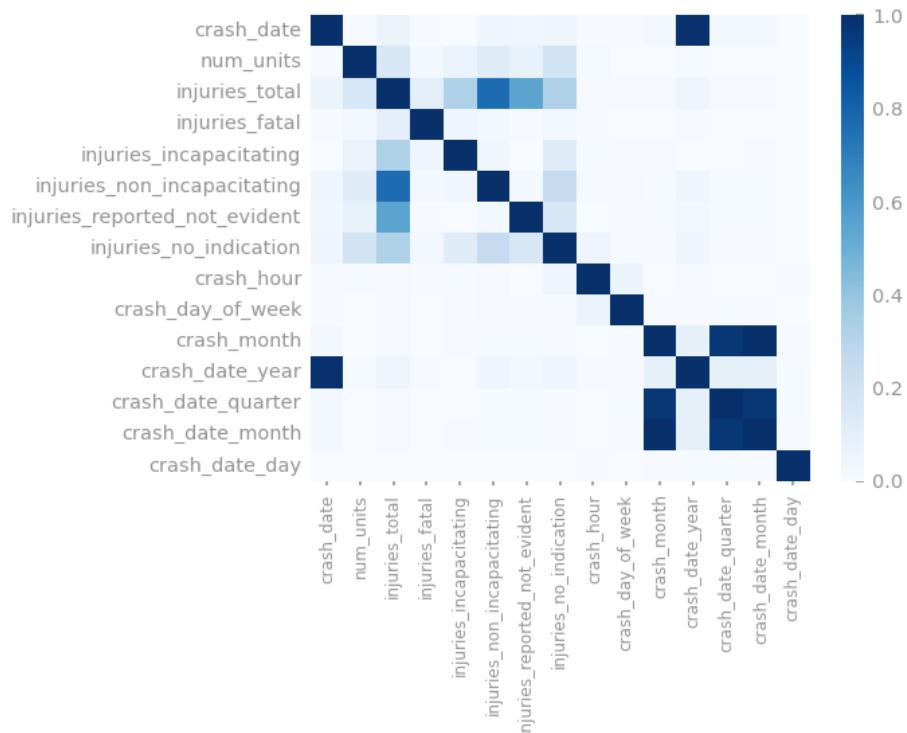


Figure 20: Correlation analysis for Traffic Accident Data

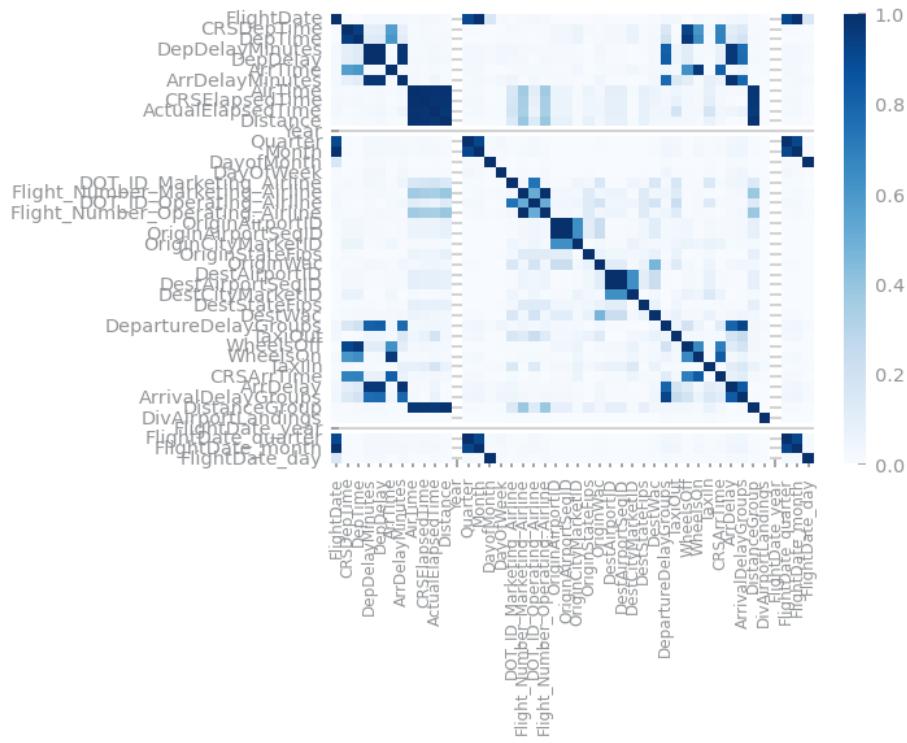


Figure 21: Correlation analysis for Flight Cancellation Data