

# Data Science Lab 2

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## CLASSIFICATION

### 1 DATA PROFILING

#### *Data Dimensionality*

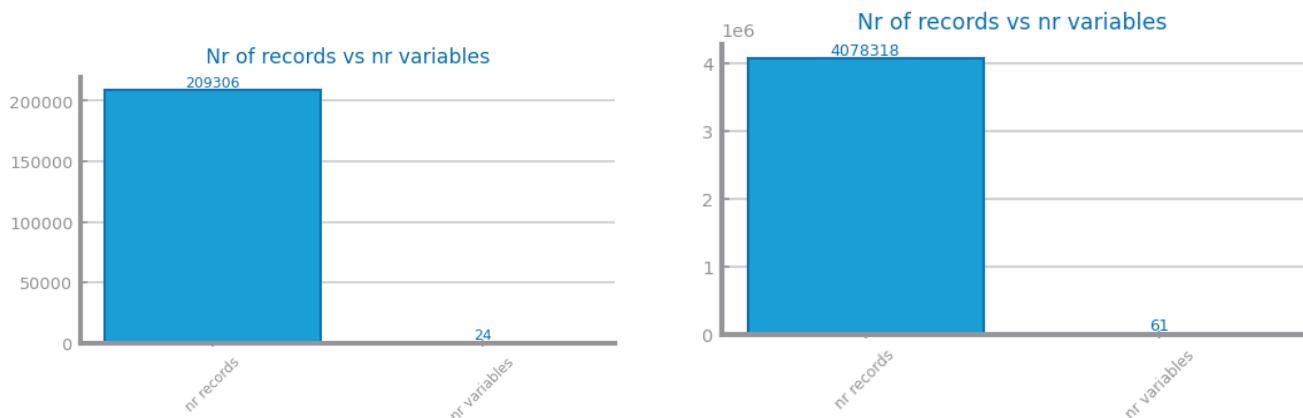


Figure 1: Nr Records x Nr variables for Traffic Accident Data (left) and Flight Cancellation Data (right)

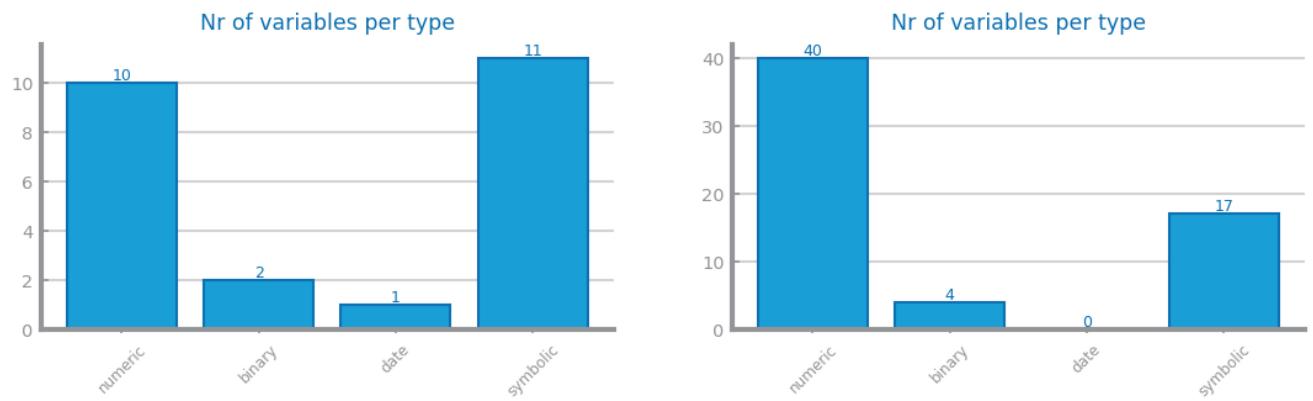


Figure 2: Nr variables per type for Traffic Accident Data (left) and Flight Cancellation Data (right)

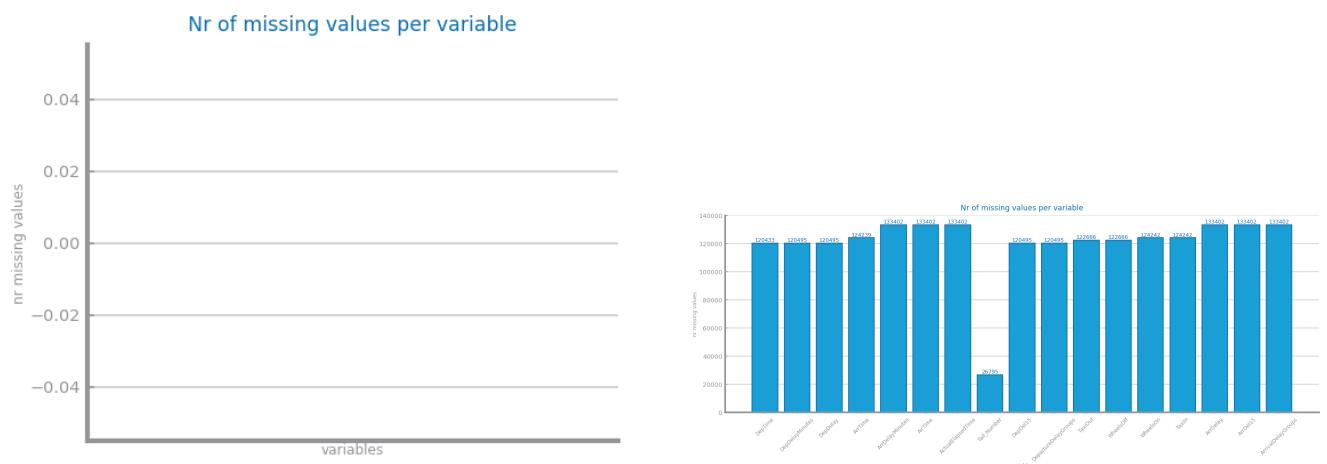


Figure 3: Nr missing values for Traffic Accident Data (left) and Flight Cancellation Data (right)

## *Data Distribution*

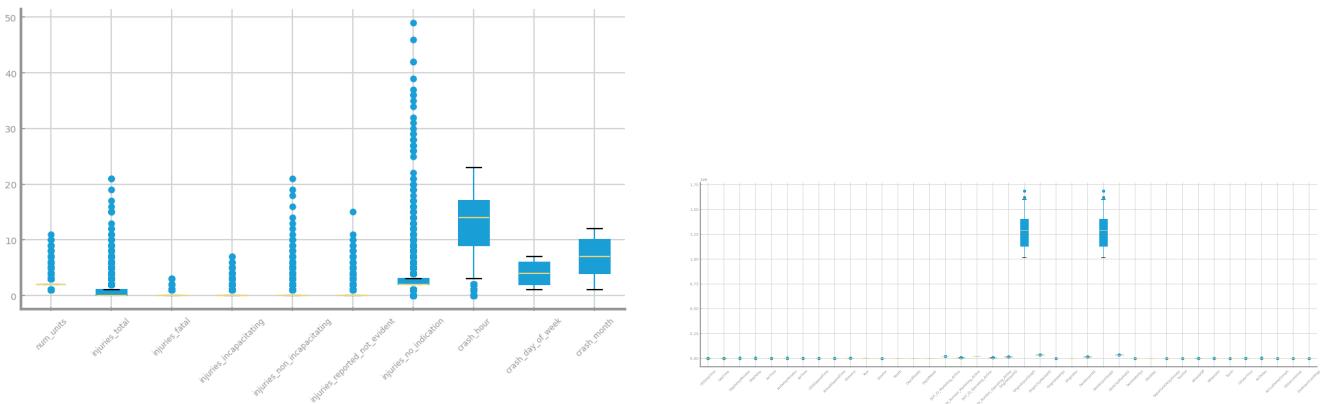


Figure 4: Global boxplots for Traffic Accident Data (left) and Flight Cancellation Data (right)

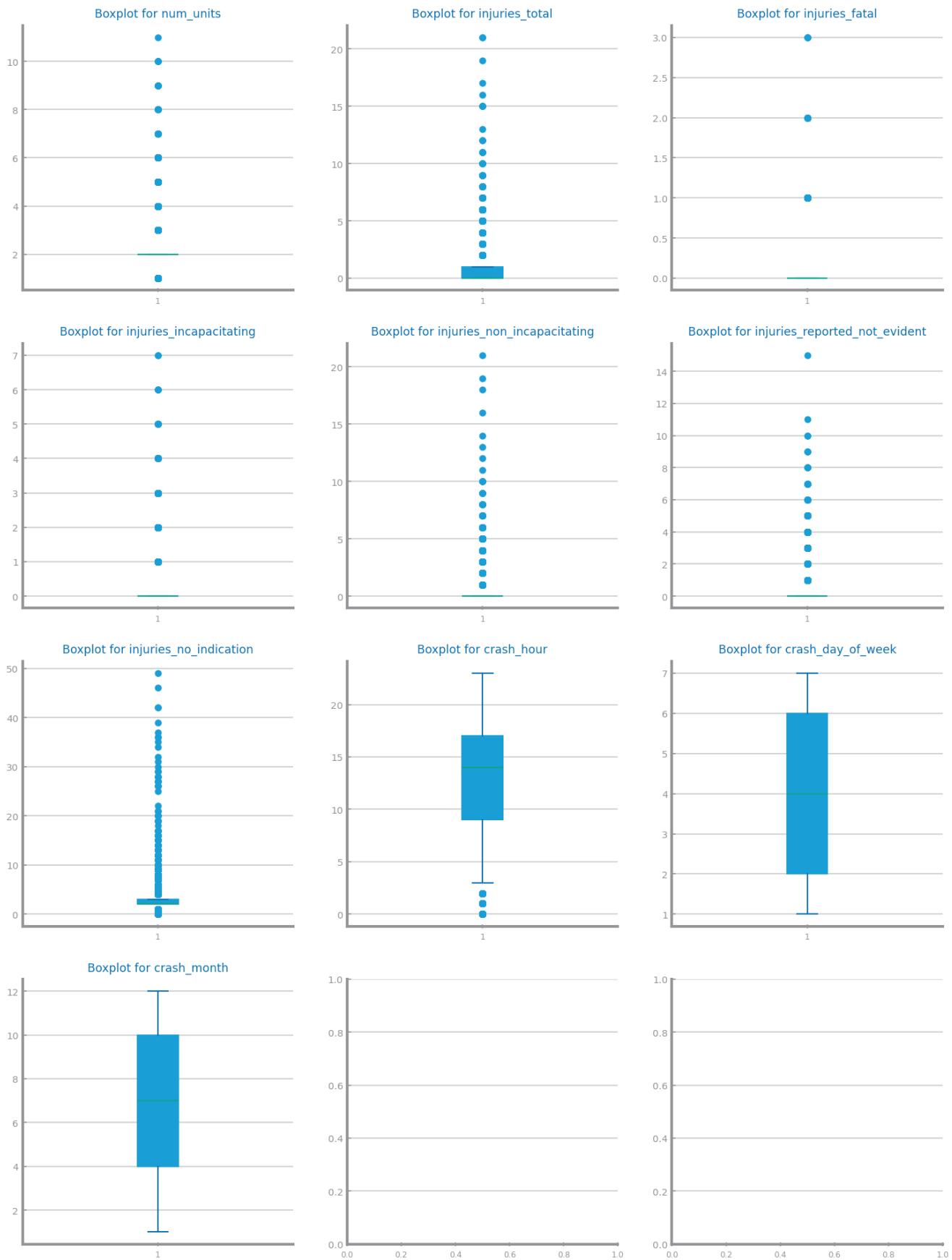


Figure 5: Single variables boxplots for Traffic Accident Data

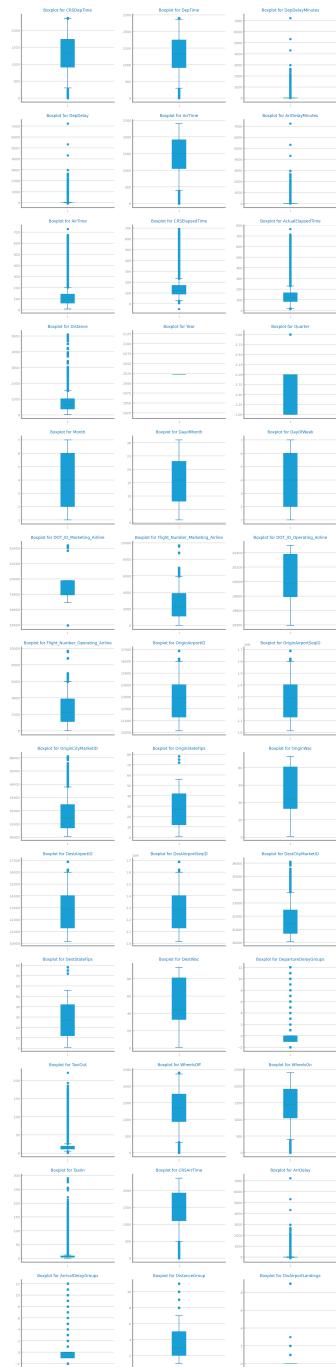


Figure 6: Single variables boxplots for Flight Cancellation Data

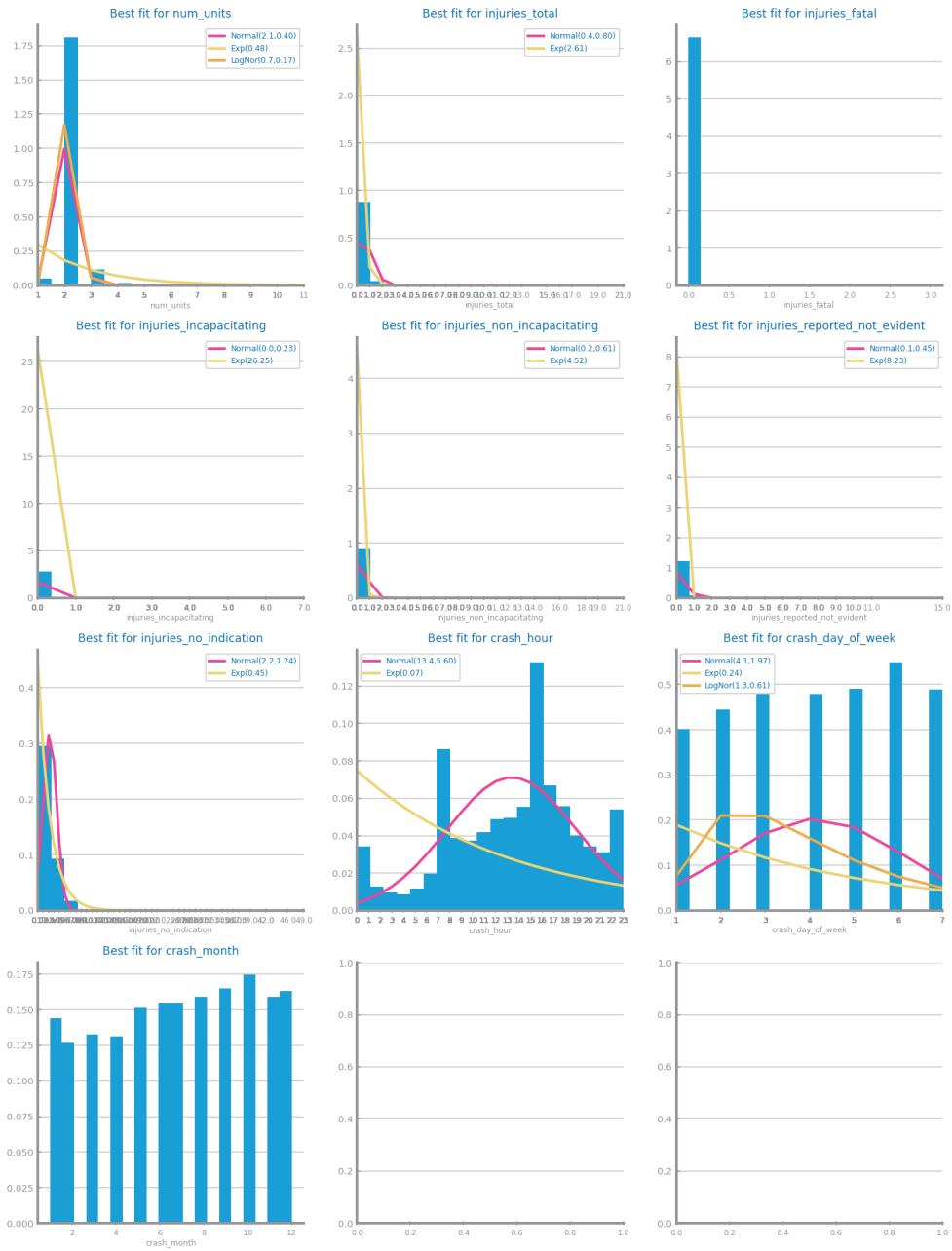


Figure 7: Histograms for Traffic Accident Data - numeric

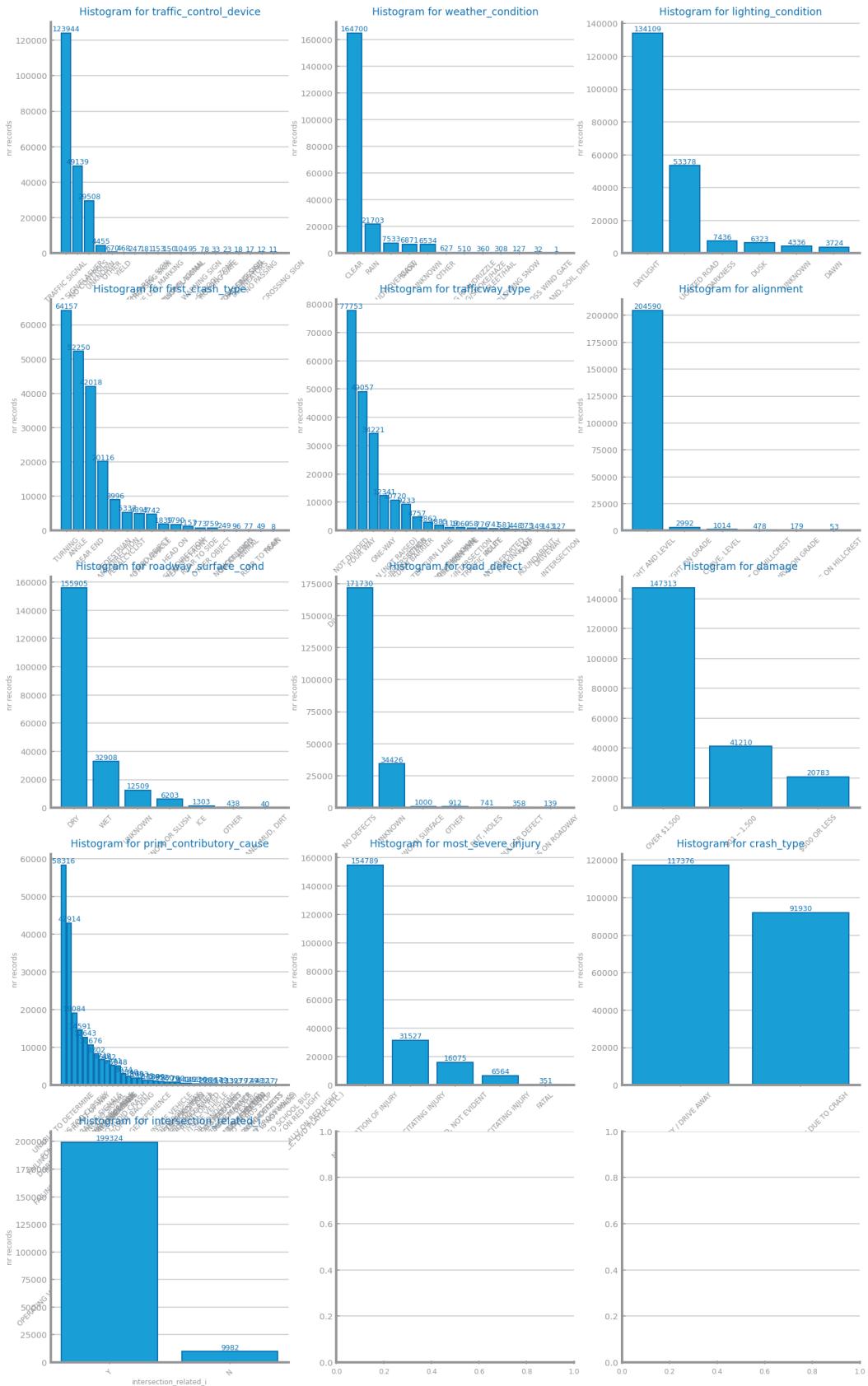
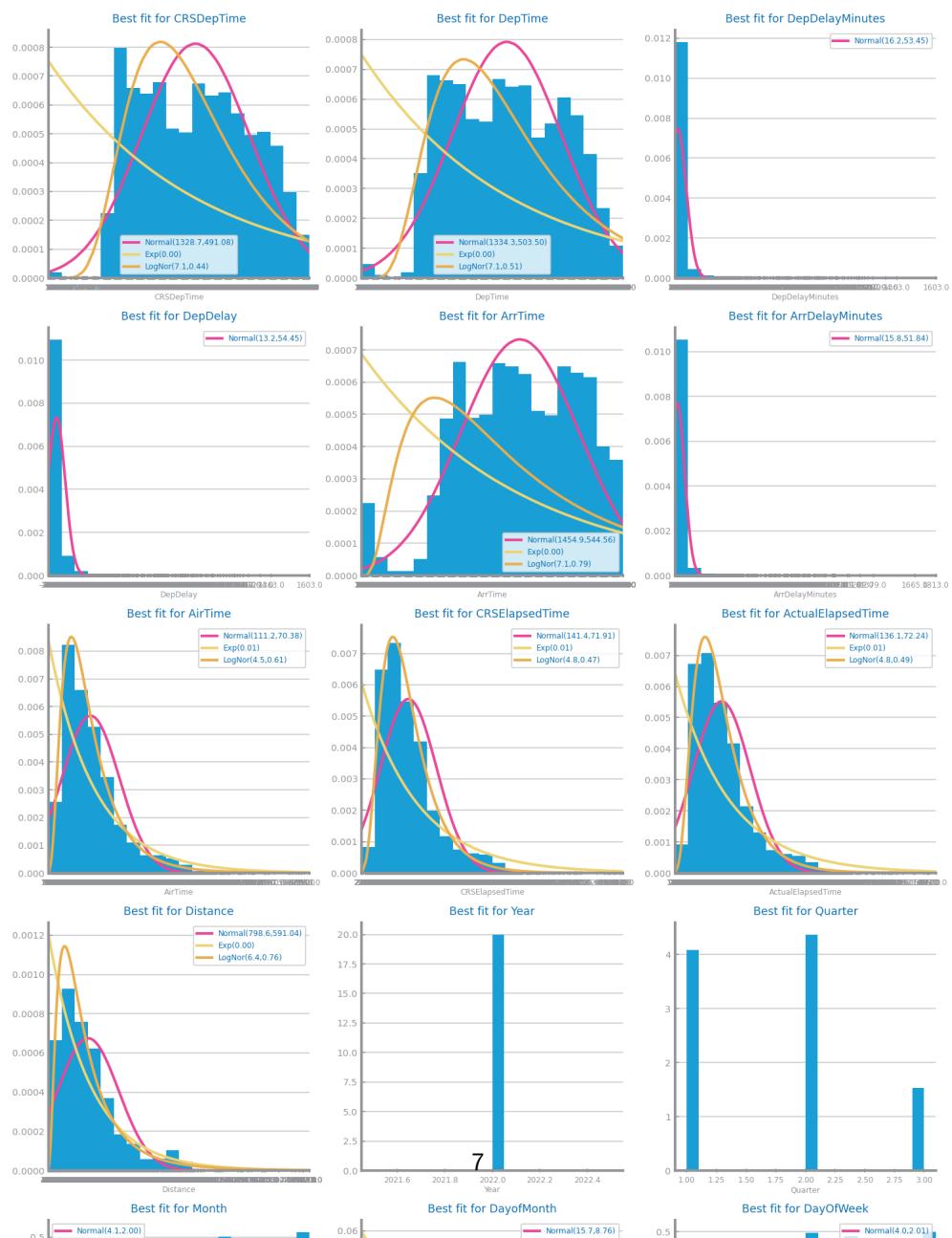
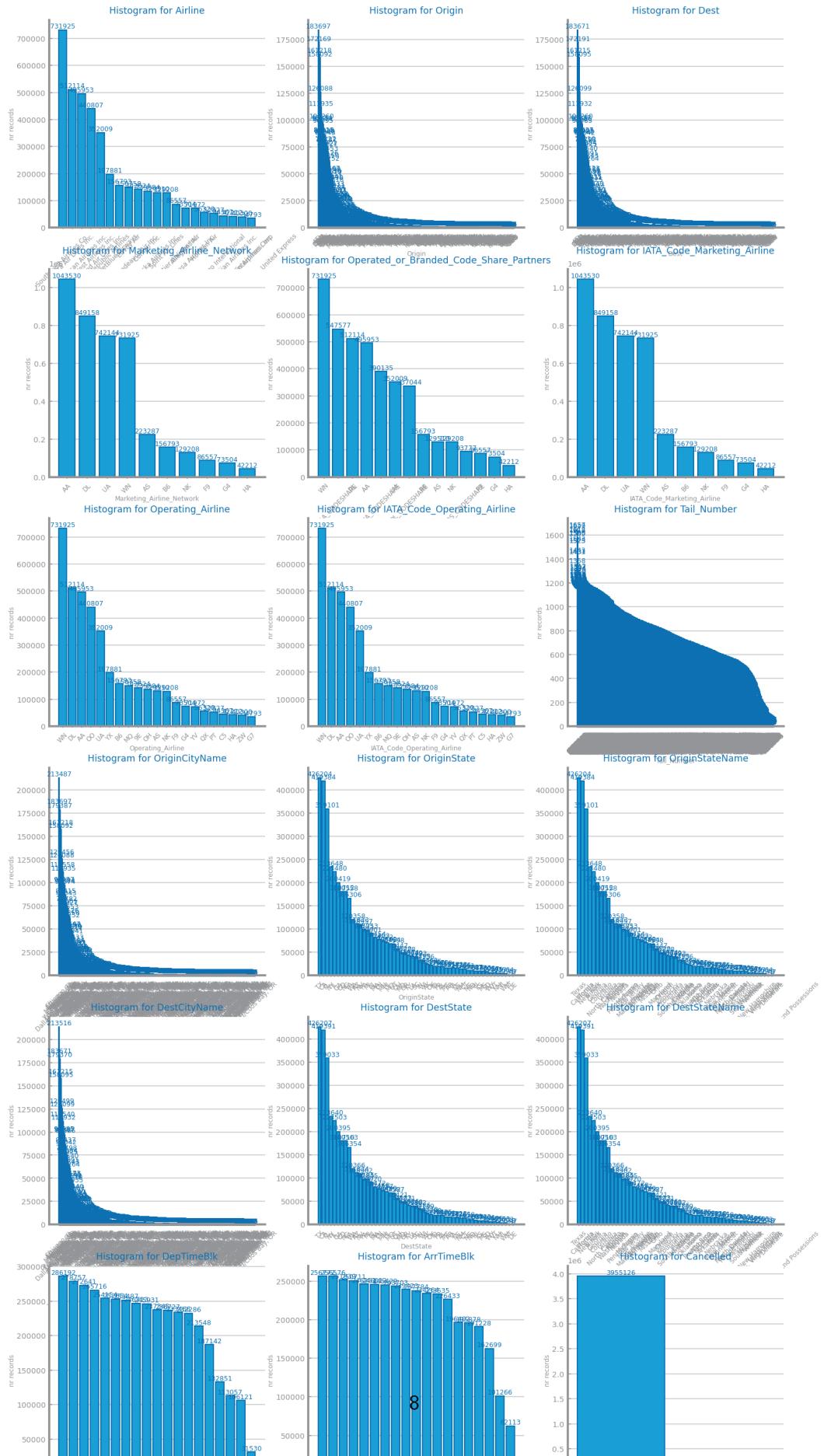


Figure 8: Histograms for Traffic Accident Data - symbolic





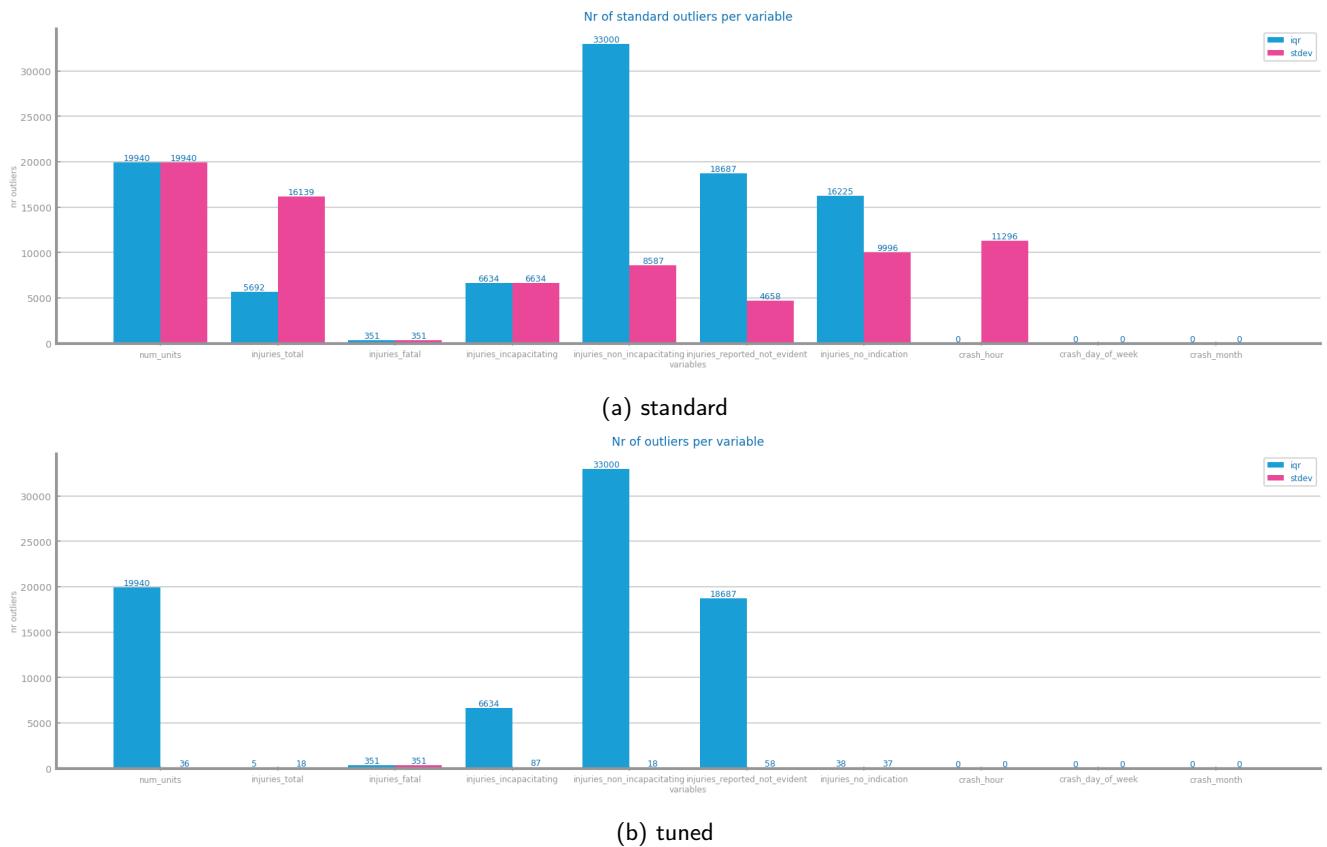


Figure 11: Outliers study Traffic Accident Data

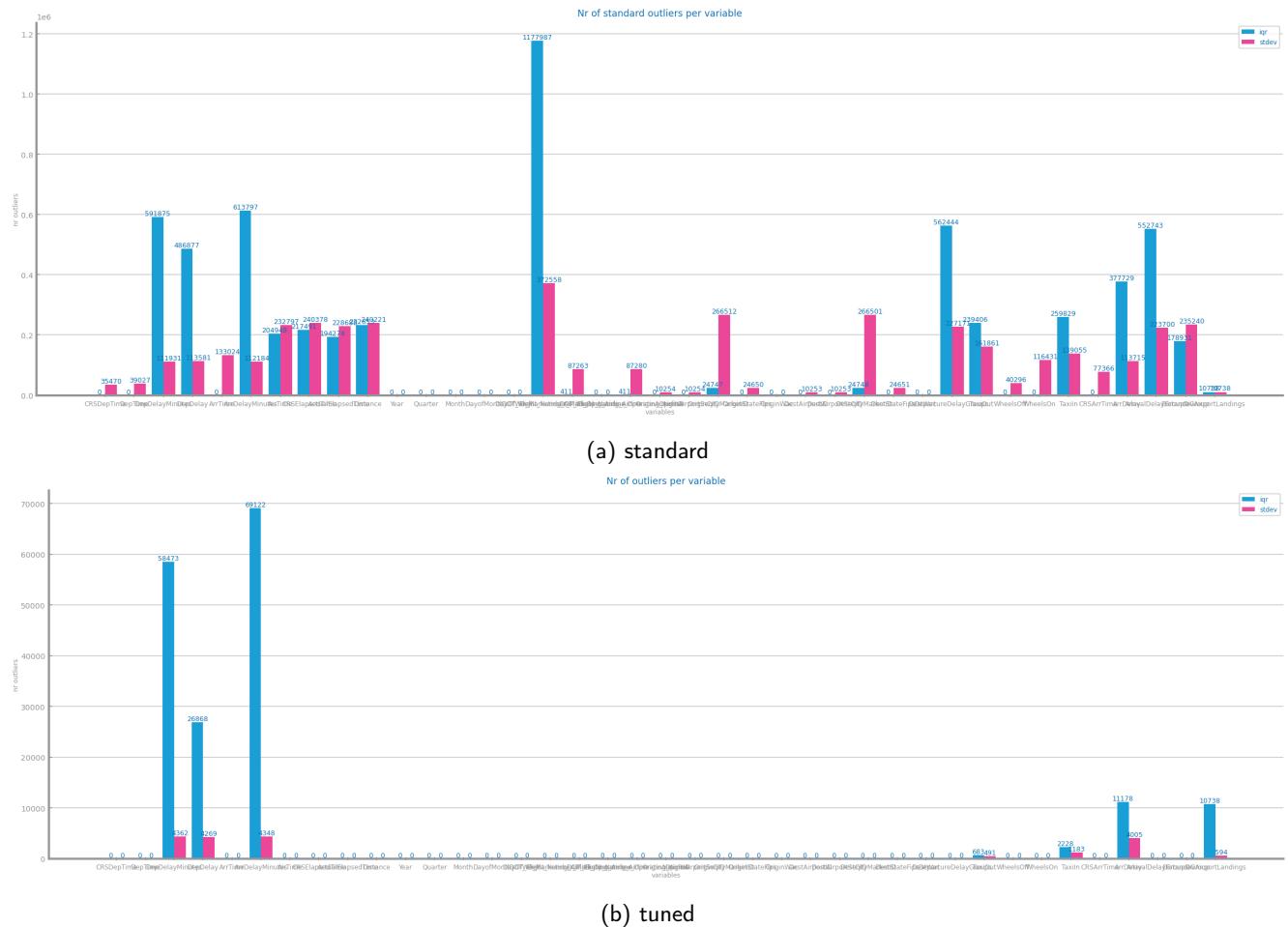


Figure 12: Outliers study Flight Cancellation Data

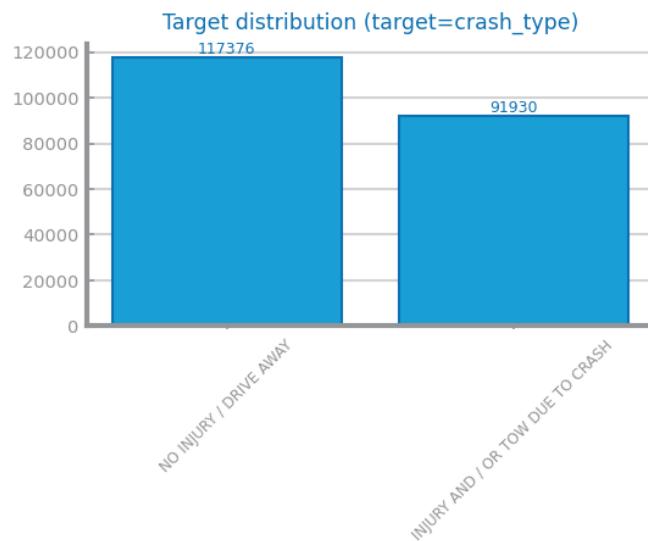


Figure 13: Class distribution for Traffic Accident Data



Figure 14: Class distribution for Flight Cancellation Data

### Data Granularity

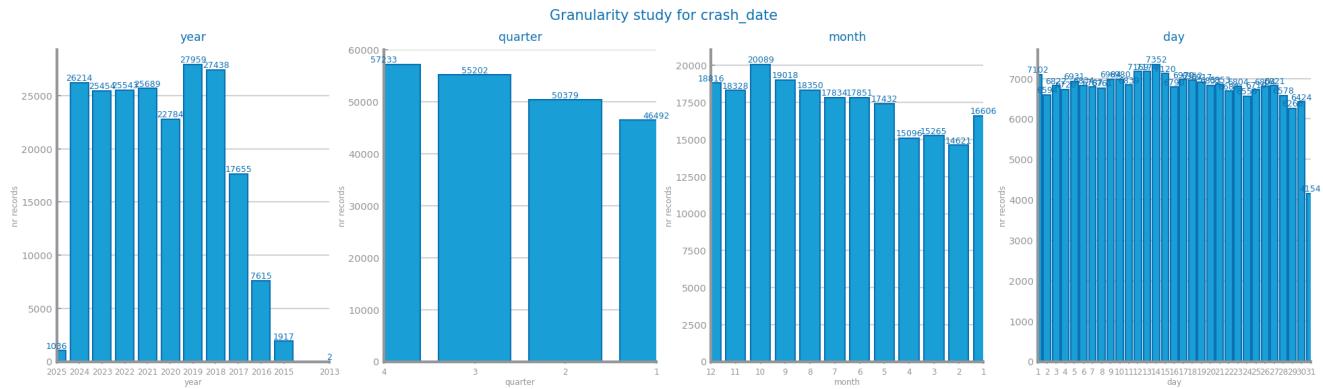


Figure 15: Granularity analysis for Traffic Accident Data

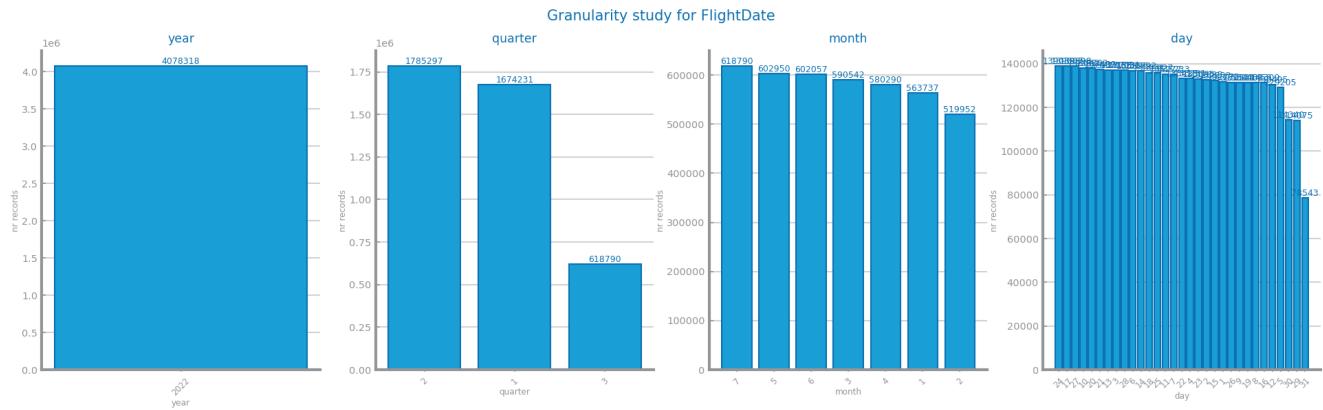


Figure 16: Granularity analysis for Flight Cancellation Data

## *Data Sparsity*

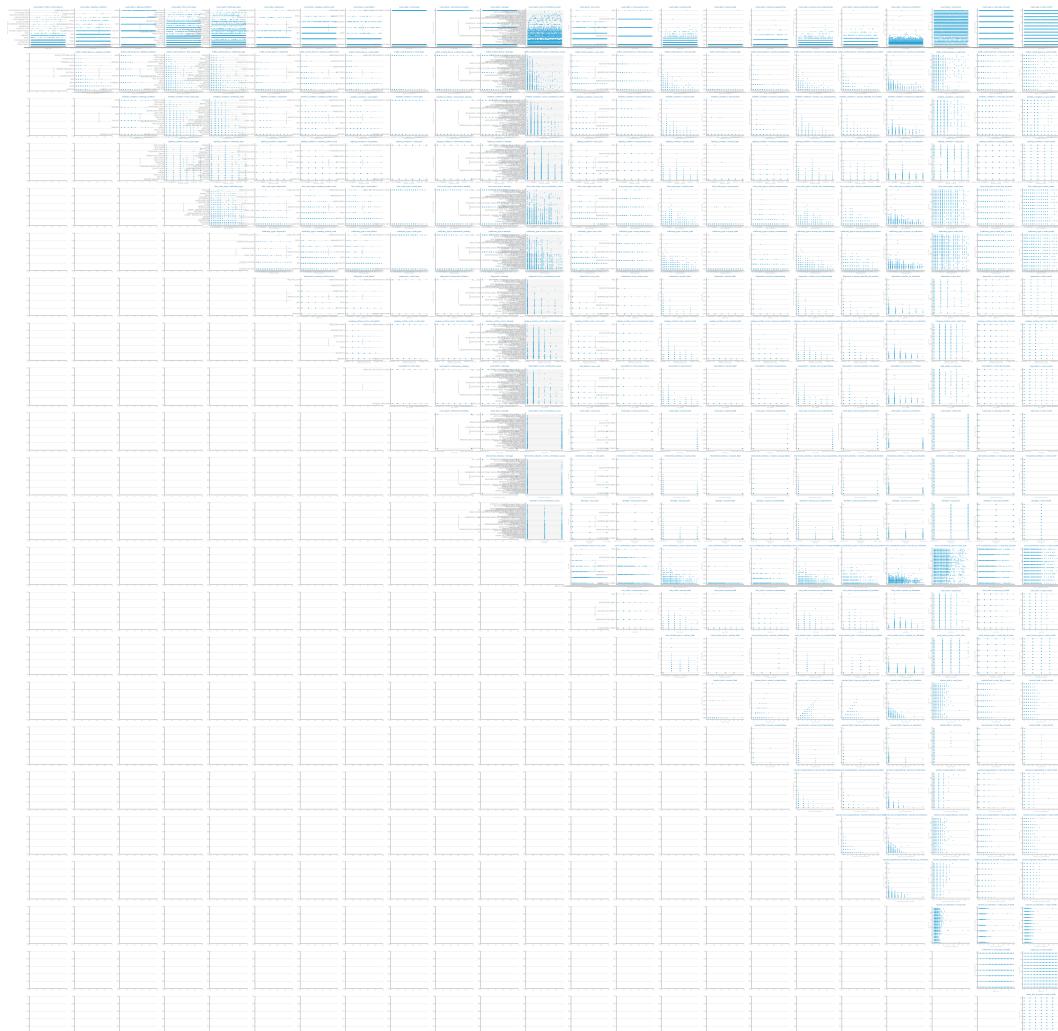


Figure 17: Sparsity analysis for Traffic Accident Data



Figure 18: Sparsity analysis per class for Traffic Accident Data

LINK

Figure 19: Sparsity analysis for Flight Cancellation Data

LINK

Figure 20: Sparsity analysis per class for Flight Cancellation Data

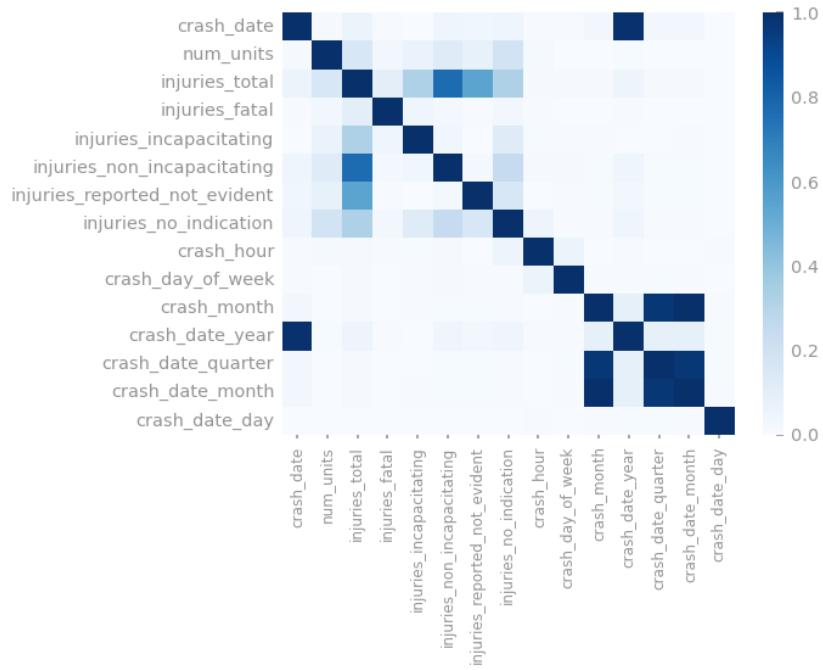


Figure 21: Correlation analysis for Traffic Accident Data

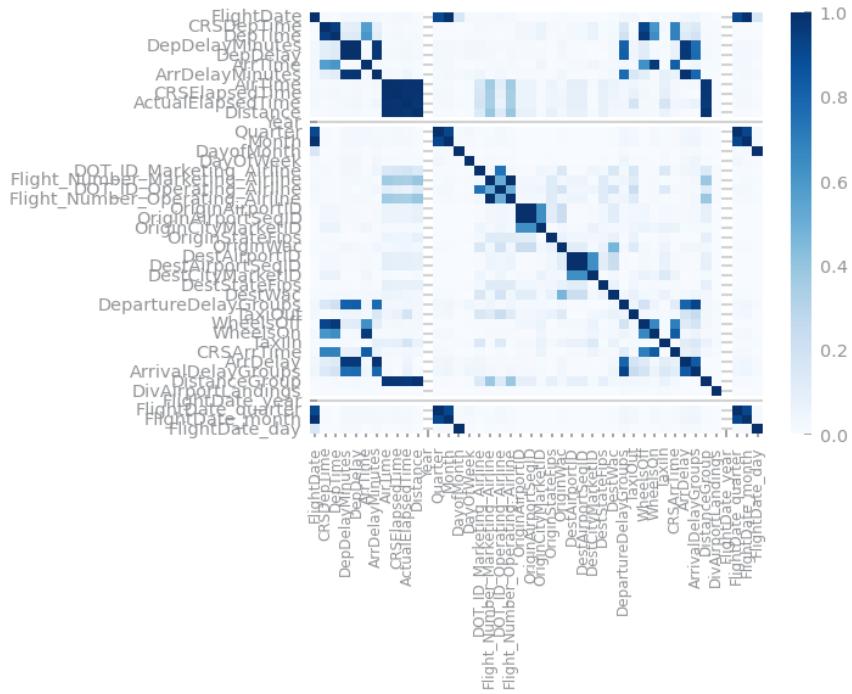


Figure 22: Correlation analysis for Flight Cancellation Data