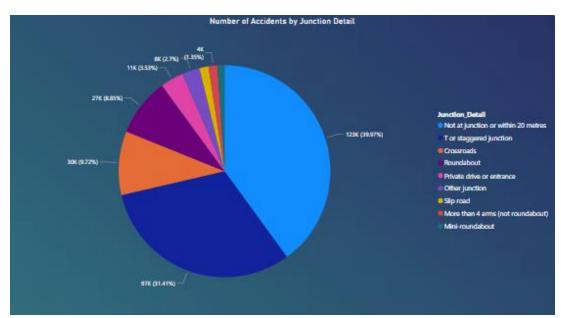
ROAD ACCIDENT DATA ANALYSIS – A POWERBI DASHBOARD

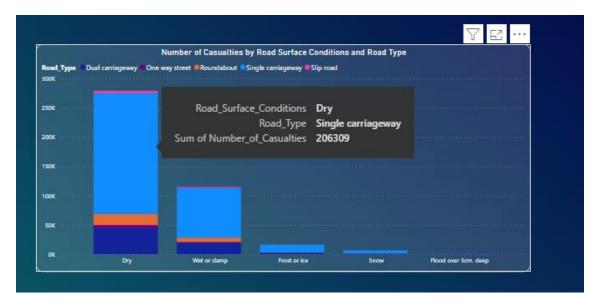
- Data Preparation/cleaning Dataset was downloaded and imported into PowerBI. This step involved finding missing values and inconsistencies and understanding the columns and determining what could be used for analysis.
- **Missing data** in column Time (17 rows), but Time column is inconsistent as there is a conflict with values in Accident Date and can be removed.
- Missing data in columns Junction_Detail and Carriageway_Hazards (3 rows) and filtered out.
- Accident_Severity column had a spelling mistake in value "Fetal" and replaced with correct value "Fatal".

2. Key findings

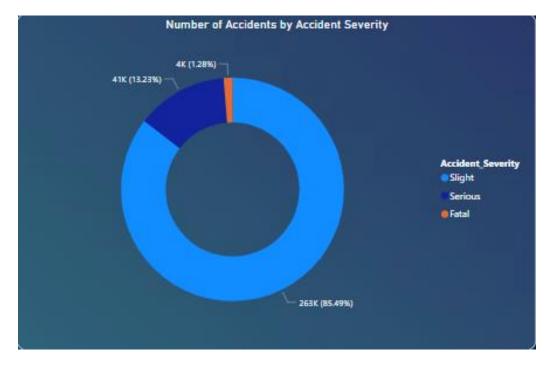
 Below is a pie chart of the Number of Accidents by Junction Detail. Most of the accidents were either not at junction, not within 20 meters (39.97%) or were caused in T/staggered junction (31.41%).



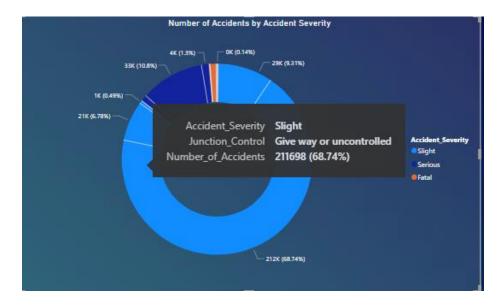
 Below is a graph of Number of Casualties by Road surface conditions and Road Type. Most of the casualties were caused by **Dry condition and** Single carriageway type.



• Below is a pie chart of the distribution of Accident Severity. Most of the accidents were **slight accidents (85.49%)**.



 Since the slight accidents were more in number, upon investigating further the cause of high number of slight accidents, it was found that majority junctions were "give way or uncontrolled".



• Weather conditions **did not majorly affect** the increase in the number of accidents as most of the time, the **weather was fine, no high winds**.

