**K-Means Results**

K Means Clustering created 8 clusters of Texas accidents. We found 3 meaningful classifications based on those clusters:

*Cluster Group 0 and 4* - Highway Accidents and Suburban Accidents

*Cluster Group 2 and 7* - Urban Accidents

*Cluster Group 1,3,5,6* - Rural Accidents.

**K-Means Cluster Group Explanation**

**Cluster Group 0 and 4 - Highway Accidents and Suburban Accidents**

The clustering data shows that 22% of the accidents are clustered into Group 0 and 18% of the accidents are clustered into Group 4. We can categorize this cluster as follows:

Occur along major highways and suburban areas with high population density. Higher average severity. Does not occur near traffic signals or crossings but does occur near junctions.

Thus, we can conclude that these are Highway Accidents and in busy suburban areas, occurring on the highway and busy roads or where junctions occur. These are marginally more severe than other accidents.

**Clustering Groups 2 and 7 - Urban Accidents**

Groups 2 account for 37% of accidents and Group accounts for 20% of accidents. We can categorize this cluster group as follows:

Occur in downtown and urban areas High frequency of nearby crossings and traffic signals. We can classify these as Urban Accidents due to their locations and road characteristics.

**Cluster Groups 1,3,5,6 - Rural Accidents**

This group is very small compared to the others and only accounting for <1% of Texas accidents. These clusters may not be meaningful, but we can see that most of these are not in major metro areas or along highways, so these are just normal accidents happening in small rural cities in Texas.