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DAMG 7370 Designing Advanced Data Architectures for Business Intelligence

Individual Assignment Part 2

Report on Analyzing Tableau and Power BI Visualizations

Crime Rates Over Time:

- What is the overall trend in crime rates over the years?

The Crime rates in 2021 are more than the crime rates in 2020, The year 2021 has reported case of about 209.33K and 2020 has about 199.39K.

- How have crime rates changed on a monthly basis?

July and Oct has the highest Crime rates over the year 2020 and 2021 with 35.77K reported crimes and April has the least reported crime of 31K

- How have crime rates changed on a quarterly basis?

Quarter 3 has the highest reported crime with 104.98K and Lowest is Quarter 2 with 100.08K records

Day Time and Week Factors:

- Is there a correlation between the day of the week and the number of reported crimes?

Monday has the highest reported Crimes with 64,338 and the least is Sunday with 51,385.

- Do certain types of crimes tend to occur at specific times of the day?

Tha maximum Crimes tend to happen at 12:00PM at night and Crime Vehicle burglary is the highest.

Crime by Location:

- Where are the high-crime areas in Los Angeles?

We want to know (your inferences on):

- o By seeing the geo map, what are the crime hotspots?

The 77th Street, Central, Pacific, Southwest, Hollywood seems to be the crime hotspots from the Geo maps

- o Can you identify areas where Los Angeles performs better or worse in terms of crime rates?

77th Street is worse with 26,368 crimes reported and Foothill has the least crime reported with 14,120 crimes reported

Types of Crime:

- What are the most commonly used weapons in reported crimes?

Strong-Arm, Other Weapons and Verbal Threat are the top 3 weapons used to create the Crime

Demographic Analysis:

- Show in the visualization the age patterns in crime.

Keeping the inconsistent data in mind I have removed the 0,-1,-2,-3 values. So Between the age 25-35 the crime rate is highest

- Show in the visualization the gender-related patterns in crime.

Gender male are the highest victims with 172.7K (42.27%) crime reported and Female victim are around 36.52% of total victims. Also Unknow category are around 9.08%

Arrests Ratio:

- What percentage of reported crimes result in Juvenile, Adult arrests?

Adult arrest are around 9.8% and Juvenile arrest is around 0.34%