

DATA VISUALIZATION AND STORY **TELLING**

TEAM - 15

FINAL PROJECT PHASE-2

Dataset Type:

The Worcester crime incident reports dataset is primarily Descriptive and Diagnostic:

1. **Descriptive Aspect:** According to the findings that I have obtained, the dataset includes detailed descriptions of each criminal incidents. These reports include information such as the time, date, and type of criminal activity that is provided by each record. This level of specificity is required in order to get to the bottom of the dynamics of Worcester's criminal activity.
2. **Diagnostic Role:** A further observation that I have made is that the dataset makes it possible to investigate patterns and trends. In the event that I am able to correlate the types of incidents with the times and locations at which they took place, I will be able to recognize trends that can assist in the diagnosis of community or policing strategies.

In my detailed exploration, I focus on the 'Who, What, How, When, Where, and Why' aspects:

1. **Who:** I have begun a study of the individuals who were involved in these instances. It is not possible to provide particular identification. still, the nature of the crimes can provide insight into which demographics were most severely affected. Taking a look at the DEPARTMENT characteristic can provide you with a wealth of information regarding the responses of different police departments.
2. **What:** In this context, I will be concentrating on the characteristics of the incidents. The INCIDENT_TYPE variable is responsible for classifying the crimes, which enables me to recognize the most common sorts of crimes and specific trends that were seen in Worcester.
3. **How:** In spite of the fact that actual methods of criminal activity are not provided, I am able to deduce probable patterns in criminal behavior or target areas by studying the INCIDENT_TYPE in conjunction with the LOCATION. The time at which these incidents occurred, as documented in the TIME_LOGGED, provides additional information that can be used to determine whether particular crimes are more likely to occur at particular times of the day or night.
4. **When:** DATE_LOGGED and TIME_LOGGED are the temporal data that I consider to be extremely important. Having this information enables me to recognize patterns, such as an increase in the number of crimes committed on weekends, during particular seasons, or at particular times of the day.
5. **Where:** Two of the most important aspects of my spatial analysis are the LOCATION and ZIPCODE data. This information is utilized by me in order to create a map of crime incidents, which plays a significant role in identifying locations with high crime rates and informing resource allocation and urban planning.

6. **Why:** Despite the lack of explanations for specific crimes, I want to use this data in conjunction with external demographic and socioeconomic statistics. Theorizing about the causes of crime in certain places can benefit from this.

As a learner, I believe it is just as important to fully grasp all of the components of this dataset as it is for stakeholders like city planners and law enforcement. The case study is comprehensive, so students can practice data interpretation skills and learn more about the practical implications of data analysis.