US Crime Data Exploration and Analysis

Problem Statement :

An organized quantitative and qualitative investigation is done to find trends in crime and disorder. Information on these patterns helps law enforcement agencies deploy resources more effectively. Crime analysis plays an important role in devising solutions to crime problems and formulating crime prevention strategies.

Objectives:

It is required to delve deeper into data on different types of crimes and figure out the types of crimes which are more frequent and how they are trending over time.

Dataset Description:

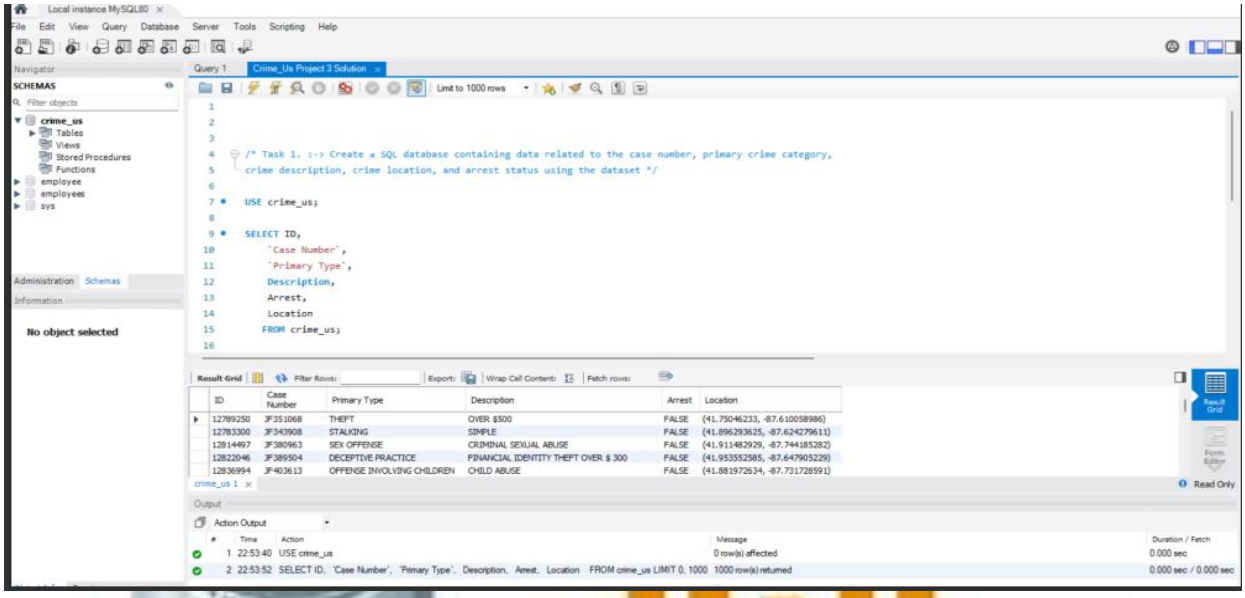
The file Crime_us.csv contains the details of crimes, that have occurred in a state of the US in the year 2022.

Variable Description:

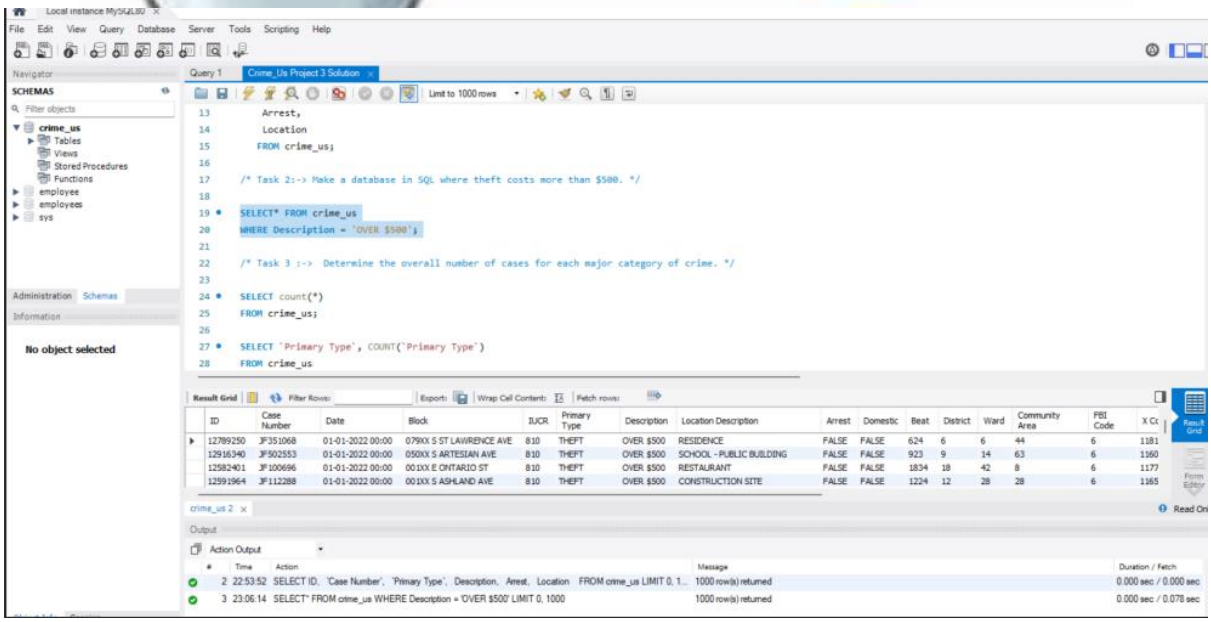
Variable	Description
ID	Shows case id
Case Number	Shows case number
Date	Explicit the date and time of occurrence of the crime
Block	Explains the address where the crime had taken place
IUCR	Is a four-digit code that law enforcement agencies use to classify criminal incidents when taking individual reports
Primary Type	Classify the type of crime
Description	Demonstrates the crime event
Location Description	Explains the type of location where the crime has taken place
Arrest	Shows whether an arrest had been made or not
Domestic	Shows whether the crime was of domestic nature
Beat	Is the territory that a police officer is assigned to patrol
District	Shows the district of the victim
Ward	Shows the ward of the victim
Community Area	Shows the community of the victim
FBI Code	Is the investigation code used to find the criminals
X Coordinate	Shows various information about the location
Y Coordinate	Shows various information about the location
Year	Shows the year
Update On	Signifies the last updating date of the data
Latitude	Shows the latitude of the place
Longitude	Shows the longitude of the place
Location	Shows the location

Tasks to Perform

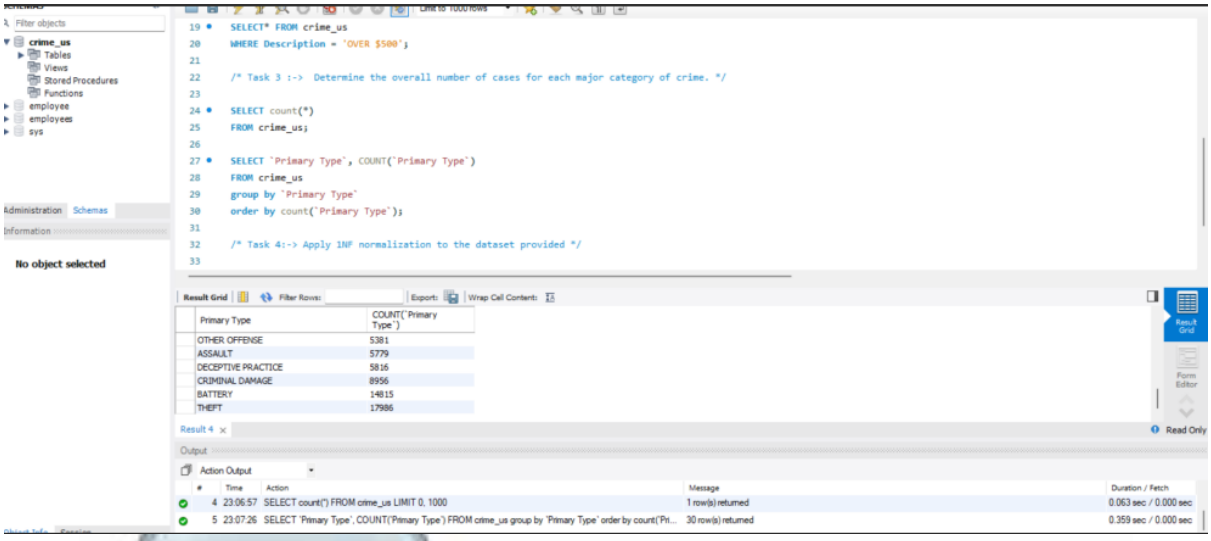
1. **Create a SQL database containing data related to the case number, primary crime category, crime description, crime location, and arrest status using the dataset.**



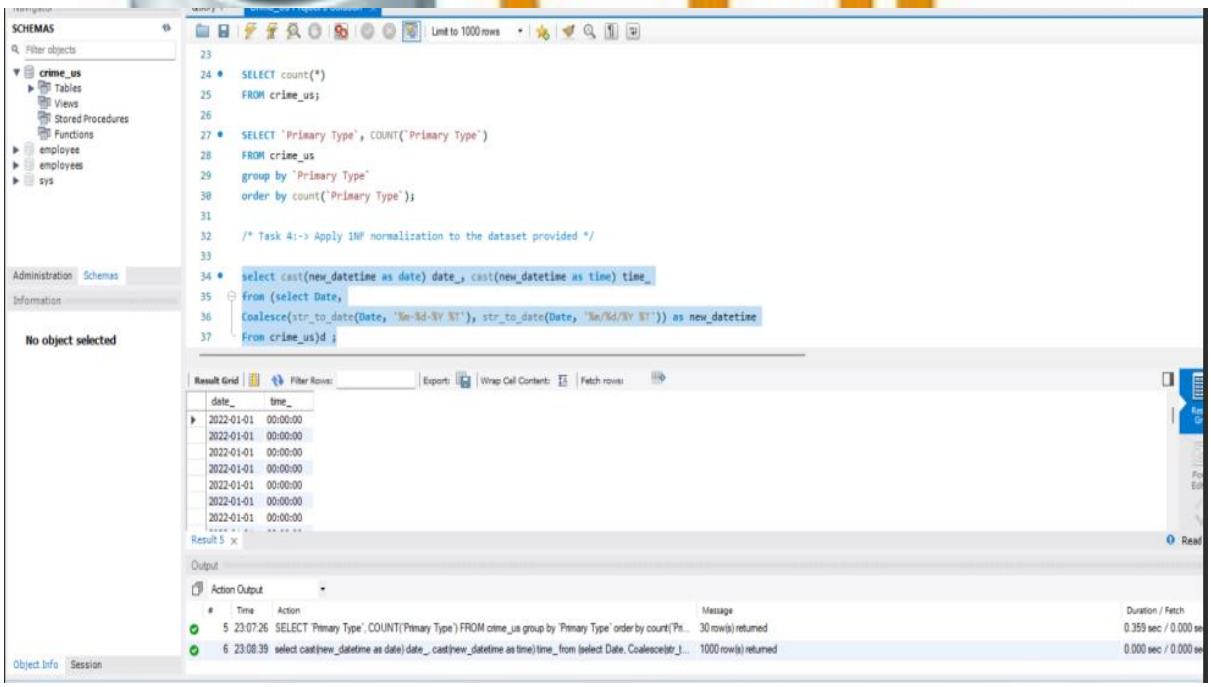
2.Make a database in SQL where theft costs more than $500.



3.Determine the overall number of cases for each major category of crime.



4.Apply 1NF normalization to the dataset provided.



THANK YOU