**Project on US Crime Data Exploration and Analysis**

Q1)Create a SQL database containing data related to the case number, primary crime category, crime description, crime location,

and arrest status using the dataset

Ans)create database usacrime;

use usacrime;

select \* from crime\_us;

create table usacrimes(case\_number varchar(100),primary\_crime\_category varchar(100),crime\_description

varchar(100),crime\_location varchar(100),arrest\_status boolean);

desc usacrimes;

Q2) Make a database in SQL where theft costs more than $500.

Ans)use usacrime;

select \* from crime\_us;

select id,block,IUCR, primarytype,Description from crime\_us

where primarytype="Theft" and description="over $500";

create view minicrime as

select id,block,IUCR, primarytype,Description from crime\_us

where primarytype="Theft" and description="over $500";

select \* from minicrime;

Q3)Determine the overall number of cases for each major category of crime.

Ans)use usacrime;

select \* from crime\_us;

select primarytype,count(casenumber) as Number\_of\_cases

from crime\_us

group by primarytype;

Q4)Apply 1NF normalization to the dataset provided.

Ans)use usacrime;

select \* from crime\_us;

select id,locationdescription from crime\_us;

create table usfinals(id bigint,locationdescription varchar(100));

desc usfinals;

insert into usfinals(id,locationdescription)

values(12704864,"Commercial");

insert into usfinals(id,locationdescription)

values(12704864,"Bussiness");

insert into usfinals(id,locationdescription)

values(12598249,"Commercial");

insert into usfinals(id,locationdescription)

values(12598249,"Bussiness");

insert into usfinals(id,locationdescription)

values(12700296,"Nursing");

insert into usfinals(id,locationdescription)

values(12700296,"Retirement Home");

insert into usfinals(id,locationdescription)

values(12585553,"Parking LoT");

insert into usfinals(id,locationdescription)

values(12585553,"Garage");

insert into usfinals(id,locationdescription)

values(12582232,"Parking LoT");

insert into usfinals(id,locationdescription)

values(12582232,"Garage-Non Resedential");

insert into usfinals(id,locationdescription)

values(12587890,"Tavern");

insert into usfinals(id,locationdescription)

values(12587890,"Liquor Store");

insert into usfinals(id,locationdescription)

values(12583238,"Bar");

insert into usfinals(id,locationdescription)

values(12583238,"Tavern");

insert into usfinals(id,locationdescription)

values(12582793,"Bar");

insert into usfinals(id,locationdescription)

values(12582793,"Tavern");

insert into usfinals(id,locationdescription)

values(12583634,"Tavern");

insert into usfinals(id,locationdescription)

values(12583634,"Liquor Store");

insert into usfinals(id,locationdescription)

values(12585671,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12585671,"Garage-Non Residential");

insert into usfinals(id,locationdescription)

values(12582211,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12582211,"Garage");

insert into usfinals(id,locationdescription)

values(12611949,"Bar");

insert into usfinals(id,locationdescription)

values(12611949,"Tavern");

insert into usfinals(id,locationdescription)

values(12583078,"Bar");

insert into usfinals(id,locationdescription)

values(12583078,"Tavern");

insert into usfinals(id,locationdescription)

values(12581923,"Bar");

insert into usfinals(id,locationdescription)

values(12581923,"Tavern");

insert into usfinals(id,locationdescription)

values(12581905,"Hotel");

insert into usfinals(id,locationdescription)

values(12581905,"Motel");

insert into usfinals(id,locationdescription)

values(125838393,"Bar");

insert into usfinals(id,locationdescription)

values(125838393,"Tavern");

insert into usfinals(id,locationdescription)

values(12583915,"Bar");

insert into usfinals(id,locationdescription)

values(12583915,"Tavern");

insert into usfinals(id,locationdescription)

values(12597291,"Commercial");

insert into usfinals(id,locationdescription)

values(12597291,"Bussiness");

insert into usfinals(id,locationdescription)

values(12582114,"Bar");

insert into usfinals(id,locationdescription)

values(12582114,"Tavern");

insert into usfinals(id,locationdescription)

values(12583102,"Bar");

insert into usfinals(id,locationdescription)

values(12583102,"Tavern");

insert into usfinals(id,locationdescription)

values(12582342,"Hotel");

insert into usfinals(id,locationdescription)

values(12582342,"Motel");

insert into usfinals(id,locationdescription)

values(12581916,"Bar");

insert into usfinals(id,locationdescription)

values(12581916,"Tavern");

insert into usfinals(id,locationdescription)

values(12581955,"Hotel");

insert into usfinals(id,locationdescription)

values(12581955,"Motel");

insert into usfinals(id,locationdescription)

values(12582137,"Hotel");

insert into usfinals(id,locationdescription)

values(12582137,"Motel");

insert into usfinals(id,locationdescription)

values(12582267,"Hotel");

insert into usfinals(id,locationdescription)

values(12582267,"Motel");

insert into usfinals(id,locationdescription)

values(12582958,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12582958,"Garage Non-Resedential");

insert into usfinals(id,locationdescription)

values(12581938,"Hotel");

insert into usfinals(id,locationdescription)

values(12581938,"Motel");

insert into usfinals(id,locationdescription)

values(12581931,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12581931,"Garage Non-Residential");

insert into usfinals(id,locationdescription)

values(12582568,"Hotel");

insert into usfinals(id,locationdescription)

values(12582568,"Motel");

insert into usfinals(id,locationdescription)

values(12594943,"Vacant Lot");

insert into usfinals(id,locationdescription)

values(12594943,"Land");

insert into usfinals(id,locationdescription)

values(12583120,"Auto");

insert into usfinals(id,locationdescription)

values(12583120,"Boat");

insert into usfinals(id,locationdescription)

values(12583120,"RV-Dealership");

insert into usfinals(id,locationdescription)

values(12582059,"Hotel");

insert into usfinals(id,locationdescription)

values(12582059,"Motel");

insert into usfinals(id,locationdescription)

values(12526544,"Barber shop");

insert into usfinals(id,locationdescription)

values(12526544,"Beauty Salon");

insert into usfinals(id,locationdescription)

values(12583162,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12583162,"Garage Non-Residential");

insert into usfinals(id,locationdescription)

values(12583898,"Bar");

insert into usfinals(id,locationdescription)

values(12583898,"Tavern");

insert into usfinals(id,locationdescription)

values(125869660,"Commercial");

insert into usfinals(id,locationdescription)

values(125869660,"Business");

insert into usfinals(id,locationdescription)

values(12614535,"Commercial");

insert into usfinals(id,locationdescription)

values(12614535,"Business");

insert into usfinals(id,locationdescription)

values(12582586,"Nursing");

insert into usfinals(id,locationdescription)

values(12582586,"Retirement Home");

insert into usfinals(id,locationdescription)

values(12582240,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12582240,"Garage-Non Residential");

insert into usfinals(id,locationdescription)

values(12584101," Car Parking Lot");

insert into usfinals(id,locationdescription)

values(12584101,"Garage");

insert into usfinals(id,locationdescription)

values(12584101,"Other Property");

insert into usfinals(id,locationdescription)

values(12584533,"Hotel");

insert into usfinals(id,locationdescription)

values(12584533,"Motel");

insert into usfinals(id,locationdescription)

values(12582381,"Police Facility");

insert into usfinals(id,locationdescription)

values(12582381,"Vehicle Parking Lot");

insert into usfinals(id,locationdescription)

values(12582533,"Parking Lot");

insert into usfinals(id,locationdescription)

values(12582533,"Garage-Non Residential");

insert into usfinals(id,locationdescription)

values(12583816,"Nursing");

insert into usfinals(id,locationdescription)

values(12583816,"Retirement");

insert into usfinals(id,locationdescription)

values(1258255,"Parking Lot");

insert into usfinals(id,locationdescription)

values(1258255,"Garage-Non Residential");

insert into usfinals(id,locationdescription)

values(12582399,"Hotel");

insert into usfinals(id,locationdescription)

values(12582399,"Motel");

insert into usfinals(id,locationdescription)

values(12585381,"Commercial");

insert into usfinals(id,locationdescription)

values(12585381,"Business Office");

insert into usfinals(id,locationdescription)

values(12583086,"Bar");

insert into usfinals(id,locationdescription)

values(12583086,"Tavern");

insert into usfinals(id,locationdescription)

values(12582680,"Hotel");

insert into usfinals(id,locationdescription)

values(12582680,"Motel");

insert into usfinals(id,locationdescription)

values(12582644,"Hotel");

insert into usfinals(id,locationdescription)

values(12582644,"Motel");

insert into usfinals(id,locationdescription)

values(12582664,"Hotel");

insert into usfinals(id,locationdescription)

values(125826664,"Motel");

select \* from usfinals;

For detailed description of the project,click on the below mentioned github link

<https://github.com/shivanipriya89/Us-Crime-Data-Analysis>