

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(casenumbr) 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-Residential");
```

```
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>

