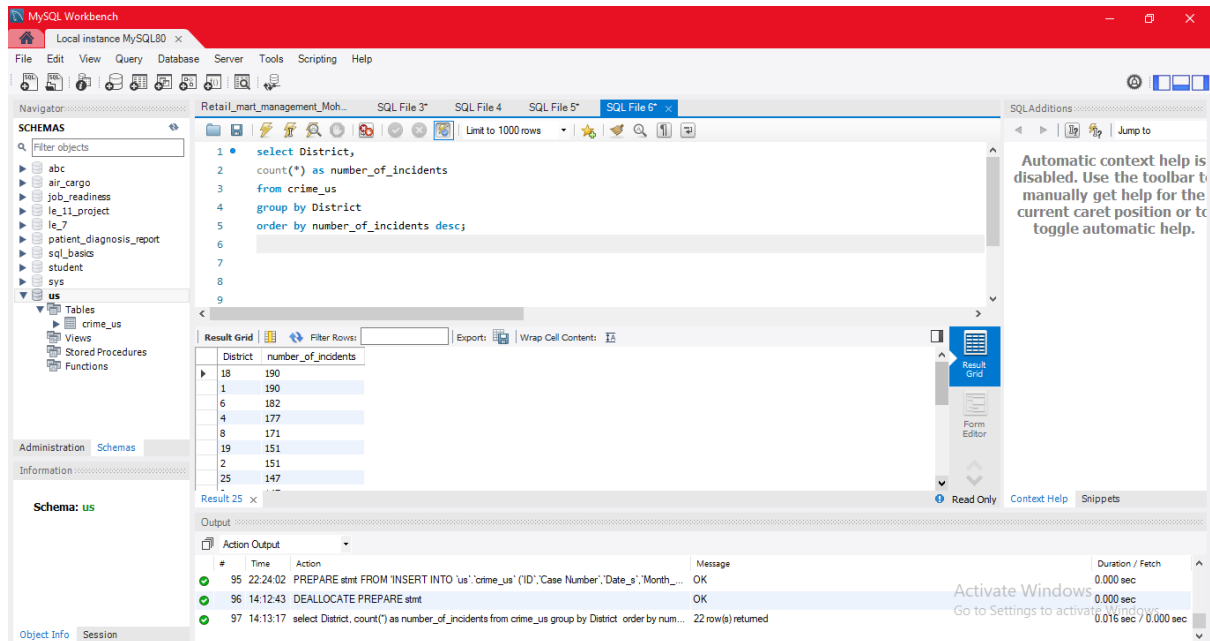


# US Crime Data Exploration and Analysis

## 1, Which police district has the highest number of overall crime incidents?



The screenshot shows the MySQL Workbench interface. The SQL Editor contains the following query:

```
1 • select District,
2 count(*) as number_of_incidents
3 from crime_us
4 group by District
5 order by number_of_incidents desc;
```

The Results window displays the following data:

District	number_of_incidents
18	190
1	190
6	182
4	177
8	171
19	151
2	151
25	147

The Output window shows the execution log:

#	Time	Action	Message	Duration / Fetch
95	22:24:02	PREPARE stmt FROM 'INSERT INTO 'us' ('crime_us' ('ID','Case Number','Date_s','Month_...	OK	0.000 sec
96	14:12:43	DEALLOCATE PREPARE stmt	OK	0.000 sec
97	14:13:17	select District, count(*) as number_of_incidents from crime_us group by District order by num...	22 row(s) returned	0.016 sec / 0.000 sec

Ans, I used the query below which revealed district “18” with 190 incidents.

select District,

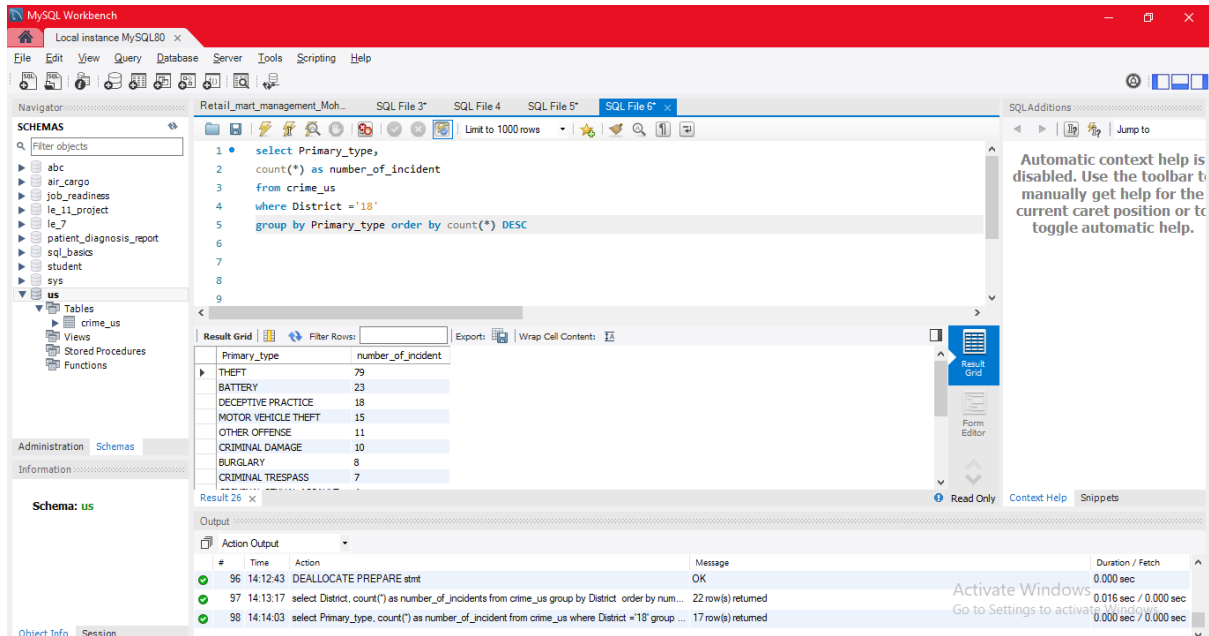
count(\*) as number\_of\_incidents

from crime\_us

group by District

order by number\_of\_incidents desc;

## 2, What crime has the highest rate in the district above (district 8)



Ans, I used the query below and it revealed Theft had the highest crime rate with a total of incidents.

select Primary\_type,

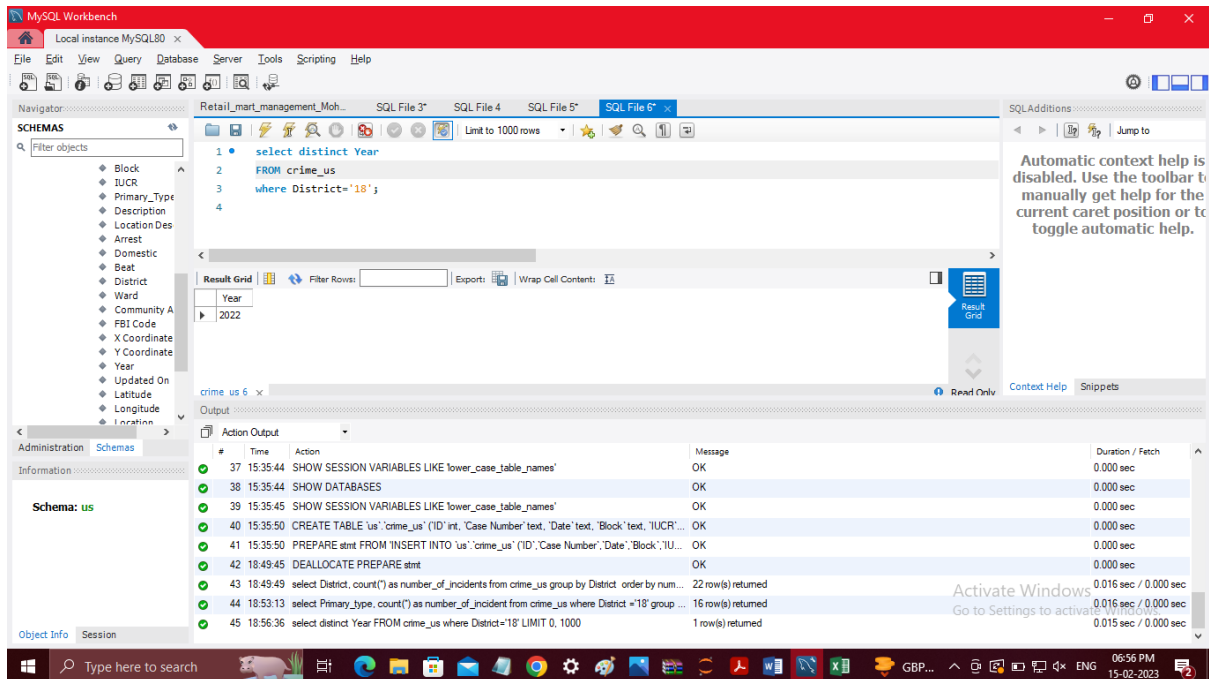
count(\*) as number\_of\_incident

from crime\_us

where District = '18'

group by Primary\_type order by count(\*) DESC

### 3, In what year was this particular crime highest in this district?(District 18 , Theft crimes)



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 select distinct Year
2 FROM crime_us
3 where District='18';
4
```

The Results Grid shows the following data:

Year
2022

The Action Output pane shows the following log:

#	Time	Action	Message	Duration / Fetch
37	15:35:44	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
38	15:35:44	SHOW DATABASES	OK	0.000 sec
39	15:35:45	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
40	15:35:50	CREATE TABLE 'us'.'crime_us' ('ID' int, 'Case Number' text, 'Date' text, 'Block' text, 'IUCR'...	OK	0.000 sec
41	15:35:50	PREPARE stmt FROM 'INSERT INTO 'us'.'crime_us' ('ID','Case Number','Date','Block','IUCR'...	OK	0.000 sec
42	18:49:45	DEALLOCATE PREPARE stmt	OK	0.000 sec
43	18:49:49	select District, count(*) as number_of_incidents from crime_us group by District order by num...	22 row(s) returned	0.016 sec / 0.000 sec
44	18:53:13	select Primary_type, count(*) as number_of_incident from crime_us where District = '18' group ...	16 row(s) returned	0.016 sec / 0.000 sec
45	18:56:36	select distinct Year FROM crime_us where District='18' LIMIT 0, 1000	1 row(s) returned	0.015 sec / 0.000 sec

Ans, Results show in the year 2022.

select distinct Year

FROM crime\_us

where District='18';

## 4, Finding out location of arrest count where crime is THEFT?

Select Location\_Description,count(Location\_Description)

From crime\_us

Where Primary\_type ='THEFT'

group by Location\_Description

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
1 Select Location_Description,count(Location_Description)
2 From crime_us
3 Where Primary_Type ='THEFT'
4 group by Location_Description
5 order by Location_Description DESC
```

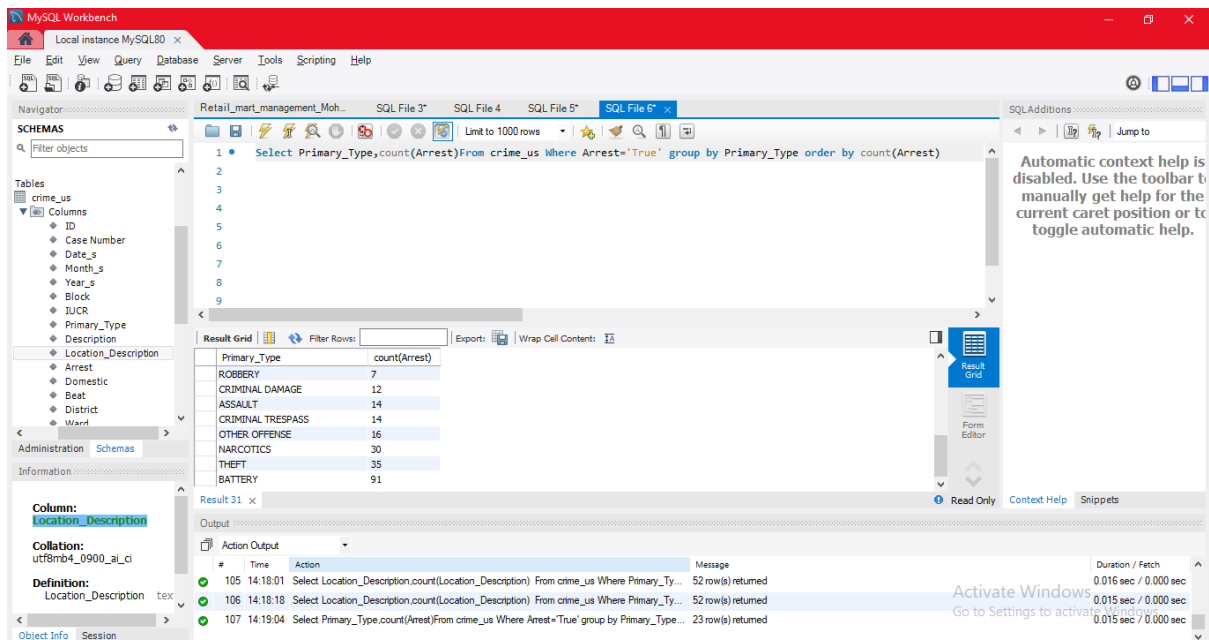
The Results tab displays the following data:

Location_Description	count(Location_Description)
STREET	157
SMALL RETAIL STORE	63
SIDEWALK	12
SCHOOL - PUBLIC GROUNDS	1
SCHOOL - PUBLIC BUILDING	6
RESTAURANT	26
RESIDENCE - YARD (FRONT...	2
RESIDENCE - PORCH / HALL...	22

The Output tab shows the execution log:

#	Time	Action	Message	Duration / Fetch
104	14:17:32	Select Location_Description.count(Location_Description) From crime_us Where Primary_Ty...	Error Code: 1054. Unknown column 'Location_Description' in 'order clause'	0.000 sec
105	14:18:01	Select Location_Description.count(Location_Description) From crime_us Where Primary_Ty...	52 row(s) returned	0.016 sec / 0.000 sec
106	14:18:18	Select Location_Description.count(Location_Description) From crime_us Where Primary_Ty...	52 row(s) returned	0.015 sec / 0.000 sec

## 5, Finding Out no of Arrest for Different Crimes.



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
Select Primary_Type,count(Arrest)From crime_us Where Arrest='True' group by Primary_Type order by count(Arrest)
```

The Result Grid displays the following data:

Primary_Type	count(Arrest)
ROBBERY	7
CRIMINAL DAMAGE	12
ASSAULT	14
CRIMINAL TRESPASS	14
OTHER OFFENSE	16
NARCOTICS	30
THEFT	35
BATTERY	91

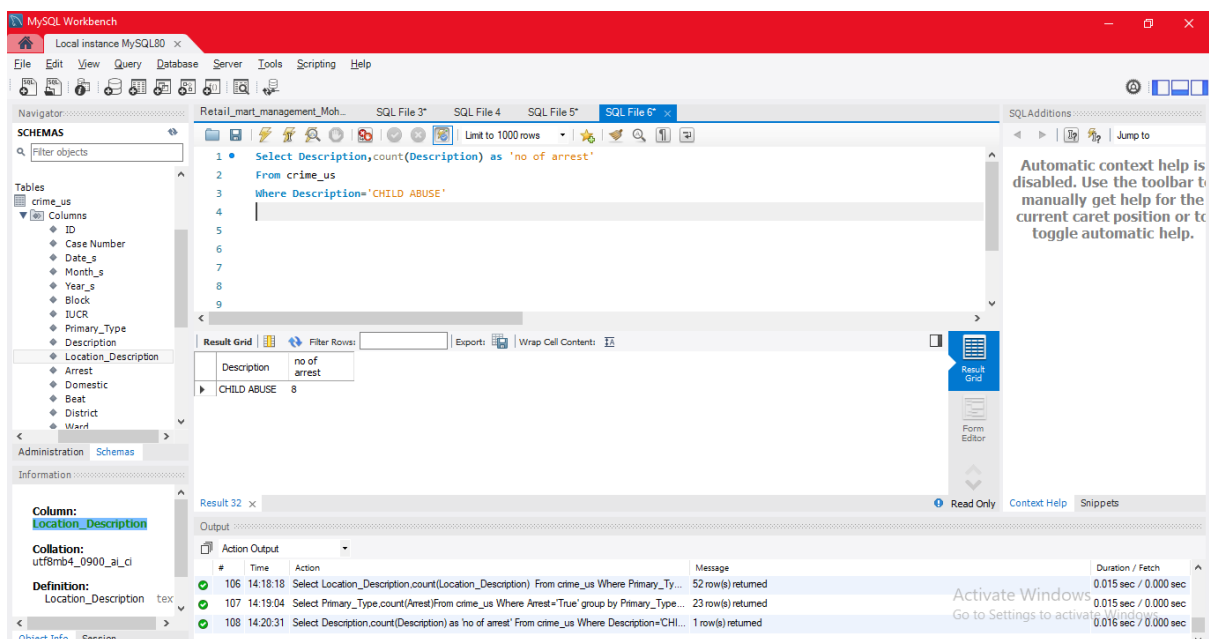
The Output pane shows the execution log with the following messages:

- 105 14:18:01 Select Location\_Description.count(Location\_Description) From crime\_us Where Primary\_Ty... 52 row(s) returned
- 106 14:18:18 Select Location\_Description.count(Location\_Description) From crime\_us Where Primary\_Ty... 52 row(s) returned
- 107 14:19:04 Select Primary\_Type.count(Arrest)From crime\_us Where Arrest='True' group by Primary\_Type... 23 row(s) returned

Select Primary\_Type,count(Arrest) From crime\_us

Where Arrest='True' group by Primary\_Type order by count(Arrest)

## 6,Finding the count arrested for ‘CHILD ABUSE’



The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```
Select Description,count(Description) as 'no of arrest'  
From crime_us  
Where Description='CHILD ABUSE'
```

The Result Grid displays the following data:

Description	no of arrest
CHILD ABUSE	8

The Output pane shows the execution log with the following messages:

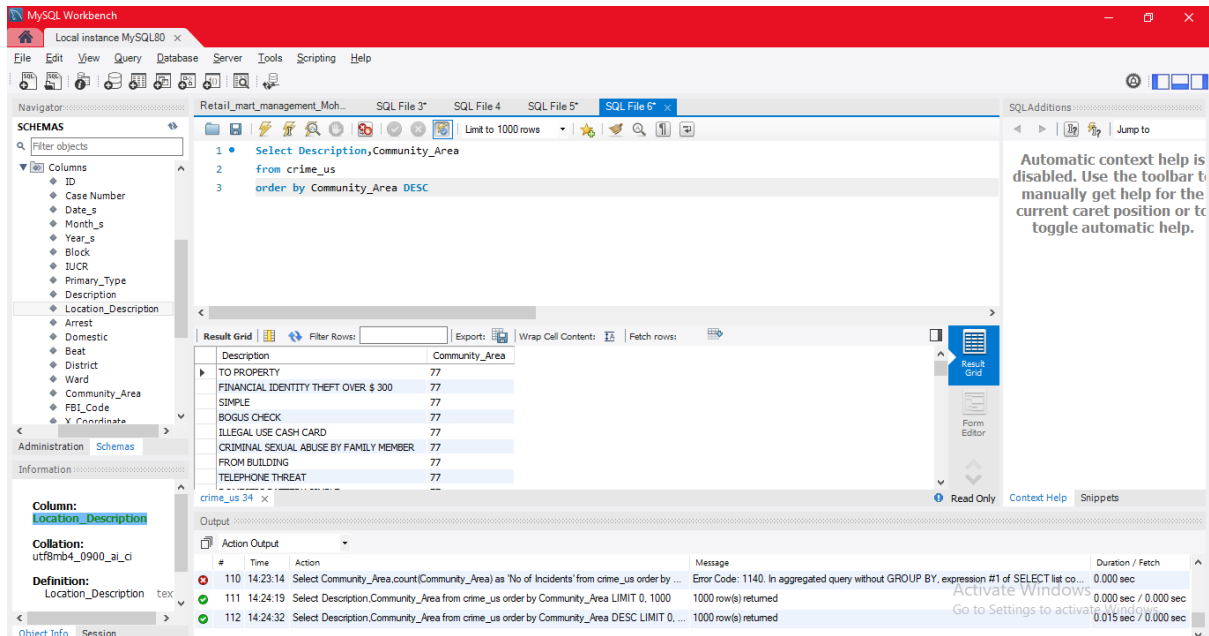
- 106 14:18:18 Select Location\_Description.count(Location\_Description) From crime\_us Where Primary\_Ty... 52 row(s) returned
- 107 14:19:04 Select Primary\_Type.count(Arrest)From crime\_us Where Arrest='True' group by Primary\_Type... 23 row(s) returned
- 108 14:20:31 Select Description.count(Description) as 'no of arrest' From crime\_us Where Description='CHI... 1 row(s) returned

Select Description,count(Description) as 'no of arrest'

From crime\_us

Where Description='CHILD ABUSE'

## 7, Finding out which community has which crime

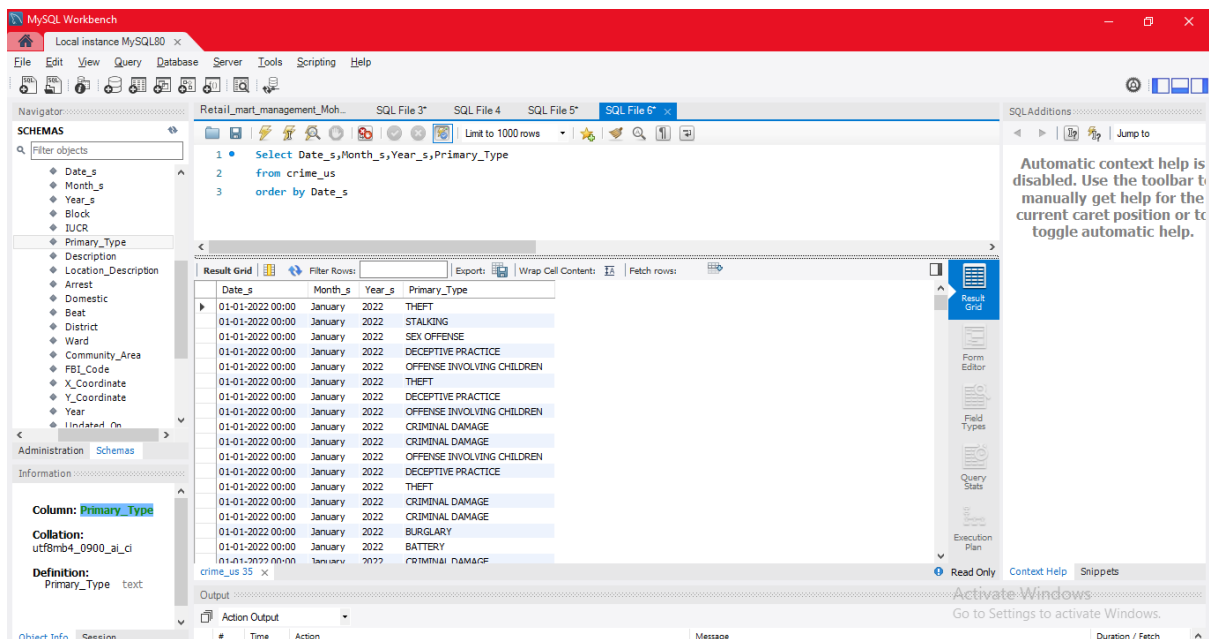


Select Description,Community\_Area

from crime\_us

order by Community\_Area DESC

## 8, Different crimes committed on different years



Select Date\_s,Month\_s,Primary\_Type

from crime\_us order by Date\_s