

CRIME HOTSPOTS IN TORONTO

Query 1:

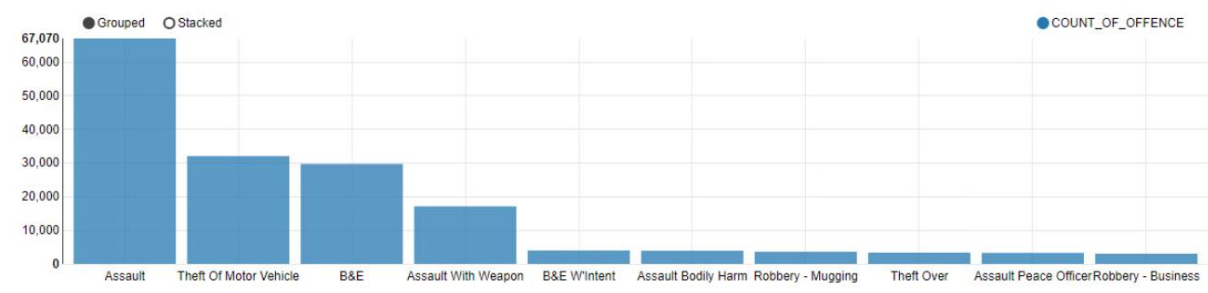
The query selects the top 10 most common offences that occurred from the year 2018 onwards.

```
%spark2.sql
select OFFENCE, count(OBJECTID) as COUNT_OF_OFFENCE from majorcrimeindicators
where OCC_YEAR>=2018
group by OFFENCE
order by COUNT_OF_OFFENCE DESC
limit 10
```

FINISHED

Output:

| OFFENCE | COUNT_OF_OFFENCE |
|------------------------|------------------|
| Assault | 67070 |
| Theft Of Motor Vehicle | 32090 |
| B&E | 29745 |
| Assault With Weapon | 17136 |
| B&E W/Intent | 4018 |
| Assault Bodily Harm | 3931 |
| Robbery - Mugging | 3626 |
| Theft Over | 3368 |
| Assault Peace Officer | 3289 |
| Robbery - Business | 3050 |



Query 2:

This query displays the top crime categories from the year 2018 onwards.

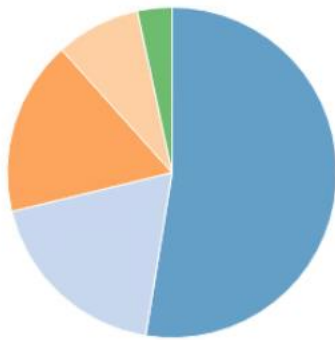
```
%spark2.sql
select MCI_CATEGORY, count(OBJECTID) as COUNT_OF_OFFENCE from majorcrimeindicators
where OCC_YEAR>=2018
group by MCI_CATEGORY
order by COUNT_OF_OFFENCE DESC
```

FINISHED

Output:

| MCI_CATEGORY | COUNT_OF_OFFENCE |
|-----------------|------------------|
| Assault | 98462 |
| Break and Enter | 34925 |
| Auto Theft | 32090 |
| Robbery | 15531 |
| Theft Over | 6328 |

● Assault.Assault.COUN... ● Break and Enter.Brea... ● Auto Theft.Auto Thef... ● Robbery.Robbery.COUN... ● Theft Over.Theft Ove...



Query 3:

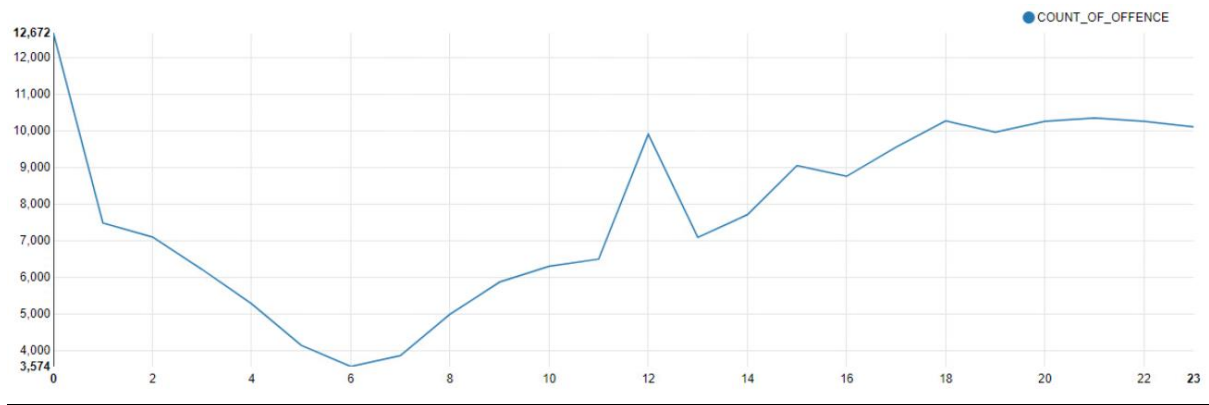
This query shows the peak hours of different crime occurrences.

```
%spark2.sql
```

```
select OCC_HOUR as TIME_OF_CRIME_OCCURANCE, count(OBJECTID) as COUNT_OF_OFFENCE
from majorcrimeindicators
where OCC_YEAR>=2018
group by TIME_OF_CRIME_OCCURANCE
order by COUNT_OF_OFFENCE DESC
limit 10
```

Output:

| TIME_OF_CRIME_OCCURANCE | COUNT_OF_OFFENCE |
|-------------------------|------------------|
| 0 | 12672 |
| 21 | 10347 |
| 18 | 10271 |
| 20 | 10261 |
| 22 | 10261 |
| 23 | 10105 |
| 19 | 9958 |
| 12 | 9909 |
| 17 | 9554 |
| 15 | 9053 |



Query 4:

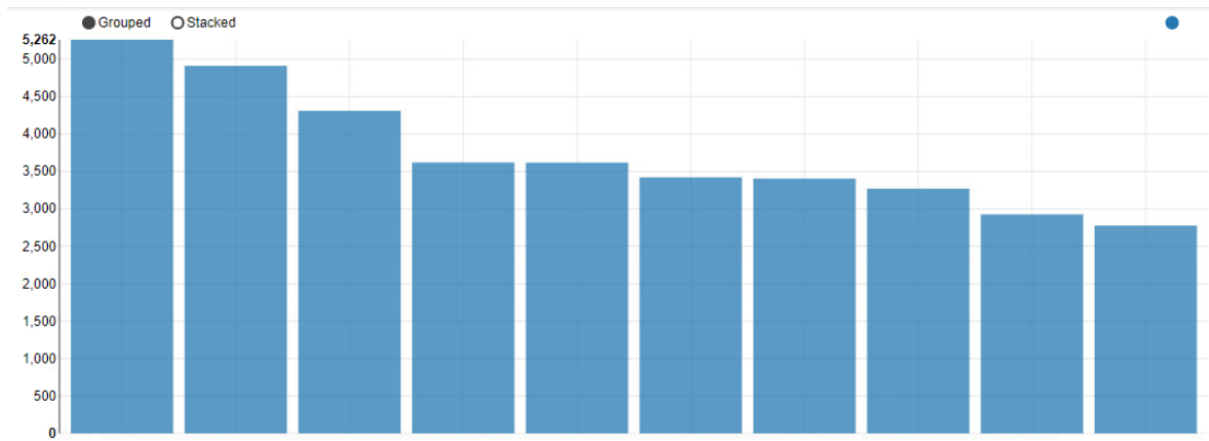
This query displays the top 10 locations based on the count of offences.

```
%spark2.sql
select NEIGHBOURHOOD_158 as LOCATION, count(OFFENCE) as COUNT_OF_OFFENCE
from majorcrimeindicators
where OCC_YEAR>=2018
group by LOCATION
order by COUNT_OF_OFFENCE desc
limit 10
```

FINISHED

Output:

| LOCATION | COUNT_OF_OFFENCE |
|-------------------------|------------------|
| West Humber-Clairville | 5262 |
| Moss Park | 4913 |
| Downtown Yonge East | 4312 |
| York University Heights | 3621 |
| Yonge-Bay Corridor | 3619 |
| Wellington Place | 3422 |
| Kensington-Chinatown | 3406 |
| NSA | 3271 |
| Annex | 2927 |
| West Hill | 2778 |



Query 5:

This query displays the top 10 neighbourhood and their crime rates for year 2022.

```
%spark2.sql
select AREA_NAME as LOCATION, ASSAULT_RATE_2022 as ASSAULT, AUTOTHEFT_RATE_2022 as AUTOTHEFT,
BIKETHEFT_RATE_2022 as BIKETHEFT, BREAKENTER_RATE_2022 as BREAKENTER, HOMICIDE_RATE_2022 as HOMICIDE, ROBBERY_RATE_2022 as ROBBERY, SHOOTING_RATE_2022 as SHOOTING,
THEFTFROMMV_RATE_2022 as THEFTFROMMV, THEFTOVER_RATE_2022 as THEFTOVER,
(ASSAULT_RATE_2022+AUTOTHEFT_RATE_2022+BIKETHEFT_RATE_2022+BREAKENTER_RATE_2022+HOMICIDE_RATE_2022+ROBBERY_RATE_2022+SHOOTING_RATE_2022+THEFTFROMMV_RATE_2022+THEFTOVER_RATE_2022)
as TOTAL_RATE
from neighbourhoodcrimerates
order by TOTAL_RATE DESC
limit 10
```

Output:

| LOCATION | ASSAULT | AUTOTHEFT | BIKETHEFT | BREAKENTER | HOMICIDE | ROBBERY | SHOOTING | THEFTFROMMV | THEFTOVER | TOTAL_RATE |
|------------------------|----------|-----------|-----------|------------|----------|----------|----------|-------------|-----------|------------|
| Downtown Yonge East | 3163.116 | 272.9754 | 1000.91 | 671.1409 | 0.0 | 768.1193 | 17.50802 | 1126.35 | 110.8842 | 7131.004 |
| Yonge-Bay Corridor | 3102.793 | 123.3493 | 1226.237 | 865.4049 | 7.035812 | 475.2765 | 7.035812 | 851.3333 | 351.7906 | 7010.256 |
| Kensington-Chinatown | 1845.108 | 123.6277 | 529.1267 | 504.9769 | 4.855547 | 294.6312 | 24.27774 | 2621.996 | 101.9665 | 6050.566 |
| Moss Park | 2516.532 | 233.951 | 444.5068 | 615.3564 | 13.77664 | 744.6343 | 45.92212 | 840.3747 | 73.47539 | 5528.529 |
| University | 1476.708 | 81.08108 | 824.3243 | 510.1356 | 0.0 | 342.7592 | 0.0 | 1060.545 | 161.0954 | 4456.6484 |
| West Humber-Clairville | 747.5753 | 1375.697 | 33.62192 | 377.9563 | 2.77909 | 222.2872 | 13.89545 | 1031.042 | 169.5245 | 3974.3787 |
| Wellington Place | 1691.574 | 174.772 | 402.7356 | 458.732 | 7.167688 | 240.7753 | 28.67075 | 759.775 | 78.84457 | 3843.0466 |
| Church-Wellesley | 1730.726 | 152.2983 | 452.2798 | 328.1636 | 4.495392 | 209.6436 | 8.990785 | 445.0438 | 94.40324 | 3426.0444 |
| Humber Summit | 959.3594 | 1009.105 | 15.17451 | 415.4706 | 0.0 | 171.6336 | 52.87808 | 536.3348 | 173.7423 | 3333.6982 |
| Yorkdale-Glen Park | 1073.409 | 566.486 | 176.6462 | 351.8397 | 5.963385 | 145.51 | 41.74369 | 626.1554 | 238.5354 | 3226.2888 |

