

## *Queries*

### ☐ Total Reports in the Database

```
SELECT COUNT(report_id) AS total_reports  
FROM processed_bi;
```

	total_reports
1	735243

### ☐ Total Reports Grouped by Crime Category

```
SELECT crime_category, COUNT(report_id) AS total_reports  
FROM processed_bi  
GROUP BY crime_category  
ORDER BY total_reports DESC;
```

	crime_category	total_reports
1	Theft	359192
2	Violent Crime	200012
3	Other Crimes	96862
4	Uncategorized	56165
5	Sexual Crime	18168
6	Fraud & Financial Crime	4844

### ☐ Total Reports Grouped by Victim's Gender

```
SELECT victim_sex, COUNT(report_id) AS total_reports  
FROM processed_bi  
GROUP BY victim_sex  
ORDER BY total_reports DESC;
```

	victim_sex	total_reports
1	Male	370129
2	Female	354622
3	Unknown	10492

☐ **Total Reports by Crime Severity with Percentage**

```
WITH TotalCounts AS (  
    SELECT COUNT(report_id) AS total_count FROM processed_bi  
)  
SELECT  
    part_1_2_crime_severity,  
    COUNT(report_id) AS total_reports,  
    CAST(ROUND((COUNT(report_id) * 100.0) / total_count, 2) AS DECIMAL(5,2)) AS  
percentage  
FROM processed_bi, TotalCounts  
GROUP BY part_1_2_crime_severity, total_count  
ORDER BY total_reports DESC;
```

	part_1_2_crime_severity	total_reports	percentage
1	1	384293	52.27
2	2	350950	47.73

☐ **Total Reports Grouped by Holiday**

```
SELECT holiday, COUNT(report_id) AS total_reports  
FROM processed_bi  
GROUP BY holiday  
ORDER BY total_reports;
```

	holiday	total_reports
1	Holiday	234793
2	Working day	500450

☐ **Average Age of Victims**

```
SELECT AVG(victim_age) AS average_victim_age  
FROM processed_bi;
```

	average_victim_age
1	39

☐ **Top 5 Areas with the Most Crime Reports**

```
SELECT TOP 5 area_name, COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY area_name
ORDER BY total_reports DESC;
```

	area_name	total_reports
1	Central	52083
2	Southwest	47758
3	77th Street	46169
4	Pacific	42236
5	Hollywood	39280

☐ **Bottom 5 Areas with the Least Crime Reports**

```
SELECT TOP 5 area_name, COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY area_name
ORDER BY total_reports ASC;
```

	area_name	total_reports
1	Hollenbeck	24104
2	Foothill	24554
3	Harbor	27718
4	Devonshire	29168
5	Northeast	29369

☐ **Total Crime Reports Grouped by Case Status**

```
SELECT case_status_description, COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY case_status_description
ORDER BY total_reports DESC;
```

	case_status_description	total_reports
1	Investigation Continued	565604
2	Adult - Other Action Taken	99627
3	Adult Arrested	65999
4	Juvenile Arrested	2470
5	Juvenile - Other Action Taken	1543

☐ **Crime Reports Grouped by Victim's Descent**

```
SELECT victim_descent, COUNT(report_id) AS total_reports
FROM processed_bi
WHERE victim_descent NOT IN ('unknown')
GROUP BY victim_descent
ORDER BY total_reports DESC;
```

	victim_descent	total_reports
1	Latino/Hispanic or Pacific Islander	292028
2	Caucasian/White	186475
3	Black	134193
4	Asian	39854
5	Indigenous Peoples	1014

☐ **Total Crime Reports Grouped by Year of Occurrence**

```
SELECT YEAR(date_of_occurrence) AS year, COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY YEAR(date_of_occurrence)
ORDER BY year ASC
```

	year	total_reports
1	2020	151474
2	2021	159273
3	2022	179099
4	2023	168598
5	2024	76799

☐ **Total Crime Reports Grouped by Month of Occurrence**

```
SELECT MONTH(date_of_occurrence) AS month, COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY MONTH(date_of_occurrence)
ORDER BY month ASC;
```

	month	total_repor
1	1	69084
2	2	64698
3	3	65142
4	4	61478
5	5	60318
6	6	59094
7	7	61120
8	8	60645
9	9	58684
10	10	60951
11	11	56946
12	12	57083

☐ **Crime Reports Grouped by Weekday of Occurrence**

```
SELECT DATENAME(WEEKDAY, date_of_occurrence) AS weekday,  
       COUNT(report_id) AS total_reports  
FROM processed_bi  
GROUP BY DATENAME(WEEKDAY, date_of_occurrence)  
ORDER BY total_reports DESC;
```

	weekday	total_reports
1	Friday	111149
2	Saturday	109114
3	Monday	103830
4	Wednesday	103744
5	Sunday	103640
6	Thursday	103227
7	Tuesday	100539

☐ **Crime Reports Grouped by Category and Weekday**

```
SELECT crime_category,  
       DATENAME(WEEKDAY, date_of_occurrence) AS weekday,  
       COUNT(report_id) AS total_reports  
FROM processed_bi  
GROUP BY crime_category, DATENAME(WEEKDAY, date_of_occurrence)  
ORDER BY crime_category, total_reports DESC;
```

	crime_category	weekday	total_reports
1	Fraud & Financial Crime	Tuesday	840
2	Fraud & Financial Crime	Monday	811
3	Fraud & Financial Crime	Wednesday	790
4	Fraud & Financial Crime	Thursday	746
5	Fraud & Financial Crime	Friday	745
6	Fraud & Financial Crime	Saturday	505
7	Fraud & Financial Crime	Sunday	407
8	Other Crimes	Saturday	14441
9	Other Crimes	Friday	14326
10	Other Crimes	Sunday	13863
11	Other Crimes	Monday	13704
12	Other Crimes	Wednesday	13609
13	Other Crimes	Thursday	13511
14	Other Crimes	Tuesday	13408
15	Sexual Crime	Wednesday	2699
16	Sexual Crime	Friday	2677
17	Sexual Crime	Saturday	2628
18	Sexual Crime	Monday	2621
19	Sexual Crime	Sunday	2573
20	Sexual Crime	Thursday	2486

☐ **Identifies Peak Crime Hours for Each Category**

```

WITH HourlyReports AS (
    SELECT crime_category,
           DATEPART(HOUR, time_of_occurrence) AS report_hour,
           COUNT(report_id) AS total_reports,
           ROW_NUMBER() OVER (PARTITION BY crime_category ORDER BY
COUNT(report_id) DESC) AS rn
    FROM processed_bi
    GROUP BY crime_category, DATEPART(HOUR, time_of_occurrence)
)
SELECT crime_category, report_hour, total_reports
FROM HourlyReports
WHERE rn = 1
ORDER BY total_reports DESC;

```

	crime_category	report_hour	total_reports
1	Theft	12	29729
2	Violent Crime	20	11555
3	Other Crimes	20	5725
4	Uncategorized	12	3864
5	Sexual Crime	12	1765
6	Fraud & Financial Crime	12	974

#### ☐ Average Days Before Crime Reported (By Category)

```

SELECT
    crime_category,
    AVG(DATEDIFF(DAY, date_of_occurrence, date_reported)) AS avg_days_before_reported
FROM processed_bi
WHERE date_reported IS NOT NULL AND date_of_occurrence IS NOT NULL
GROUP BY crime_category
ORDER BY avg_days_before_reported DESC;

```

	crime_category	avg_days_before_reported
1	Sexual Crime	56
2	Fraud & Financial Crime	42
3	Theft	19
4	Uncategorized	12
5	Other Crimes	4
6	Violent Crime	4

#### ☐ Year and Month-wise Report Count

```

SELECT
    YEAR(date_of_occurrence) AS year,
    MONTH(date_of_occurrence) AS month,
    COUNT(report_id) AS total_reports
FROM processed_bi
GROUP BY YEAR(date_of_occurrence), MONTH(date_of_occurrence)
ORDER BY year ASC, month ASC;

```

	year	month	total_reports
1	2020	1	14767
2	2020	2	13701
3	2020	3	12385
4	2020	4	11673
5	2020	5	12648
6	2020	6	12576
7	2020	7	12879
8	2020	8	12782
9	2020	9	11974
10	2020	10	12384
11	2020	11	11804
12	2020	12	11901
13	2021	1	12472
14	2021	2	11482
15	2021	3	12451
16	2021	4	12268
17	2021	5	13075
18	2021	6	13196
19	2021	7	14563
20	2021	8	14077

#### ☐ Identifying Most Common Crime Category by Area

```

WITH CrimeRank AS (
    SELECT area_name,
           crime_category,
           COUNT(report_id) AS total_reports,
           ROW_NUMBER() OVER (PARTITION BY area_name ORDER BY COUNT(report_id)
DESC) AS rank
    FROM processed_bi
    GROUP BY area_name, crime_category
)
SELECT area_name,
       crime_category AS most_common_crime_category,
       total_reports
FROM CrimeRank
WHERE rank = 1
ORDER BY area_name;

```



	area_name	most_common_crime_category	total_reports
1	77th Street	Violent Crime	16966
2	Central	Theft	28021
3	Devonshire	Theft	15858
4	Foothill	Theft	10970
5	Harbor	Theft	10295
6	Hollenbeck	Theft	9186
7	Hollywood	Theft	20630
8	Mission	Theft	13302
9	N Hollywood	Theft	18934
10	Newton	Theft	13694
11	Northeast	Theft	15797
12	Olympic	Theft	17195
13	Pacific	Theft	25989
14	Rampart	Theft	14582
15	Southeast	Violent Crime	14130
16	Southwest	Theft	21547
17	Topanga	Theft	19224
18	Van Nuys	Theft	18215
19	West LA	Theft	20685
20	West Valley	Theft	15544

#### ☐ Crime Reports of Sexual Crimes Grouped by Victim's Gender

```

SELECT victim_sex,
       crime_category,
       COUNT(report_id) AS total_reports
FROM processed_bi
WHERE crime_category = 'Sexual Crime' -- Filter for sexual crimes only
      AND victim_sex != 'unknown'
GROUP BY victim_sex, crime_category
ORDER BY victim_sex, total_reports DESC;

```

	victim_sex	crime_category	total_reports
1	Female	Sexual Crime	14314
2	Male	Sexual Crime	3803

#### ☐ Crime Severity Distribution by Hour of Occurrence

```

SELECT DATEPART(HOUR, time_of_occurrence) AS hour_of_day,
       part_1_2_crime_severity,
       COUNT(report_id) AS total_reports
FROM processed_bi

```

GROUP BY DATEPART(HOUR, time\_of\_occurrence), part\_1\_2\_crime\_severity  
ORDER BY hour\_of\_day, total\_reports DESC;

	hour_of_day	part_1_2_crime_severity	total_reports
1	0	2	17579
2	0	1	14119
3	1	1	12509
4	1	2	10083
5	2	1	10716
6	2	2	7690
7	3	1	9669
8	3	2	6080
9	4	1	8136
10	4	2	4841
11	5	1	7174
12	5	2	4826
13	6	2	9246
14	6	1	7617
15	7	2	10263
16	7	1	8780
17	8	2	15925
18	8	1	11782
19	9	2	15312
20	9	1	12322

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