```sql
/* Query 1: Cities with the most crime in Montgomery County */


DROP VIEW IF EXISTS mococrime.CitiesMostCrime;
CREATE VIEW CitiesMostCrime AS
SELECT l.city,
                COUNT(ci.crime_id) AS total_cases
FROM mococrime.crime_incident ci
        JOIN mococrime.incident i ON ci.incident_id = i.incident_id
        JOIN mococrime.locations l ON i.location_id = l.location_id
WHERE l.city IS NOT NULL
GROUP BY l.city
HAVING total_cases > 5
ORDER BY total_cases DESC;


SELECT * FROM mococrime.CitiesMostCrime;


/* Query 2: Cities with the least crime in Montgomery County */


DROP VIEW IF EXISTS mococrime.CitiesLeastCrime;
CREATE VIEW CitiesLeastCrime AS
SELECT l.city,
                COUNT(c.crime_id) AS total_cases
FROM mococrime.crime c
        JOIN mococrime.crime_incident ci ON c.crime_id = ci.crime_id
        JOIN mococrime.incident i ON ci.incident_id = i.incident_id
    JOIN mococrime.locations l ON i.location_id = l.location_id
WHERE l.city IS NOT NULL
    AND l.city NOT IN (
        SELECT l_sub.city
        FROM mococrime.crime c_sub
            JOIN mococrime.crime_incident ci_sub ON c_sub.crime_id =
ci_sub.crime_id
            JOIN mococrime.incident i_sub ON ci_sub.incident_id = i_sub.incident_id
            JOIN mococrime.locations l_sub ON i_sub.location_id = l_sub.location_id
        WHERE l_sub.city IS NOT NULL
        GROUP BY l_sub.city
        HAVING COUNT(c_sub.crime_id) >= 5
    )
GROUP BY l.city
ORDER BY total_cases ASC;


SELECT * FROM mococrime.CitiesLeastCrime;


/* Query 3: Setting types with more crimes compared to others */


DROP VIEW IF EXISTS mococrime.HighCrimeSettings;
CREATE VIEW mococrime.HighCrimeSettings AS
SELECT p.place,
        COUNT(ci.crime_id) AS case_count
FROM mococrime.crime_incident ci
        JOIN mococrime.crime c ON ci.crime_id = c.crime_id
        JOIN mococrime.incident i ON ci.incident_id = i.incident_id
```

```sql
        JOIN mococrime.locations l ON i.location_id = l.location_id
        JOIN mococrime.place p ON l.place_id = p.place_id
WHERE p.place IS NOT NULL
GROUP BY p.place
ORDER BY case_count DESC;


SELECT * FROM mococ.HighCrimeSettings;


/* Query 4: Setting types with more crimes compared by city */


WITH HighCrimeCitiesCTE AS (
    SELECT l.city, p.place,
        COUNT(ci.crime_id) AS total_crimes
    FROM mococrime.crime_incident ci
        JOIN mococrime.incident i ON ci.incident_id = i.incident_id
        JOIN mococrime.locations l ON i.location_id = l.location_id
        JOIN mococrime.place p ON l.place_id = p.place_id
    WHERE l.city IS NOT NULL AND p.place IS NOT NULL
    GROUP BY l.city, p.place
)
SELECT * FROM HighCrimeCitiesCTE ORDER BY city;


/* Query 5: Police Districts with the Highest Number of Cases */


DROP VIEW IF EXISTS mococrime.MostCrimePoliceDistrict;
CREATE VIEW mococrime.MostCrimePoliceDistrict AS
WITH DistrictCases AS (
    SELECT
        pd.police_district AS district,
        COUNT(c.crime_id) AS total_cases
    FROM mococrime.crime c
        JOIN mococrime.police_dept pd ON c.offence_code = pd.offence_code
    WHERE pd.police_district IS NOT NULL
    GROUP BY pd.police_district
)
SELECT district,
                total_cases
FROM DistrictCases
ORDER BY total_cases DESC;


SELECT * FROM mococrime.MostCrimePoliceDistrict;


/* Query 6: Crimes that Beats Responded To */


DROP VIEW IF EXISTS mococrime.BeatResponseToCrimes;
CREATE VIEW mococrime.BeatResponseToCrimes AS
SELECT z.zip_code AS zipcode,
                l.city,
        p.beat AS beat,
        c.crime_name2 AS crime,
        c.crime_name3 AS details,
```

```sql
        COUNT(c.crime_id) AS total_cases
FROM mococrime.police_dept p
    JOIN mococrime.crime c ON p.offence_code = c.offence_code
    JOIN mococrime.incident i ON p.beat = i.beat
    JOIN mococrime.locations l ON i.location_id = l.location_id
    JOIN mococrime.zipcode z ON l.zipcode_id = z.zipcode_id
WHERE p.beat IS NOT NULL
GROUP BY z.zip_code, l.city, p.beat, c.crime_name2, c.crime_name3
ORDER BY total_cases DESC, city;


SELECT * FROM mococrime.BeatResponseToCrimes;


/* Query 7: Crimes generally commited in Montgomery County */


DROP VIEW IF EXISTS mococrime.CrimesInMontgomery2022;
CREATE VIEW mococrime.CrimesInMontgomery2022 AS
SELECT YEAR(i.start_date_time) AS year,
        c.crime_name2 AS crime,
        COUNT(c.crime_id) AS total_cases
FROM mococrime.incident i
    JOIN mococrime.crime_incident ci ON i.incident_id = ci.incident_id
    JOIN mococrime.crime c ON ci.crime_id = c.crime_id
WHERE YEAR(i.start_date_time) = 2022
GROUP BY YEAR(i.start_date_time), c.crime_name2
ORDER BY crime;


SELECT * FROM mococrime.CrimesInMontgomery2022;
```