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/*Query 1*/
USE moco_crime_db;

CREATE VIEW locationfilter AS
SELECT
    incidents.Incident_ID,
    location.City,
    location.State,
    location.Zip_Code
FROM incidents
JOIN location ON incidents.Location_ID
JOIN police_agency ON incidents.Agency_ID
WHERE location.City = 'Silver Spring';

/*Query 2*/
USE moco_crime_db;

CREATE VIEW Query_IncidentCountByAgency AS
SELECT pa.Agency_name, COUNT(*) AS Incident_Count
FROM incidents i
JOIN police_agency pa ON i.Agency_ID = pa.Agency_ID
GROUP BY pa.Agency_name;
SELECT Agency_name, Incident_Count
FROM Query_IncidentCountByAgency;

/*Query 3*/
USE moco_crime_db;

CREATE VIEW crimetrendsovertime AS
SELECT
    AggregateTime.Dispatch_date,
    COUNT(DISTINCT AggregateTime.Incident_ID) AS total_incidents,
    incidents_crimes.Crime_ID_1,
    ca2.Crime_name_2 AS crime_type
FROM
    (SELECT
        Incident_ID,
        Dispatch_Date
    FROM incidents
    ) AS AggregateTime
JOIN incidents_crimes ON AggregateTime.Incident_ID = incidents_crimes.Incident_ID
JOIN Crime_Against_1 ca1 ON incidents_crimes.Crime_ID_1 = ca1.Crime_ID_1
JOIN Crime_Against_2 ca2 ON ca1.Crime_ID_1 = ca2.Crime_ID_1
GROUP BY AggregateTime.Dispatch_date, incidents_crimes.Crime_ID_1, ca2.Crime_name_2
ORDER BY AggregateTime.Dispatch_date;

/*Query 4*/
USE moco_crime_db;

CREATE VIEW CrimeHierarchy AS
SELECT
    ca1.Crime_name_1,
    ca2.Crime_name_2,
    ca3.Crime_name_3
FROM Crime_Against_1 ca1
JOIN Crime_Against_2 ca2 ON ca1.Crime_ID_1 = ca2.Crime_ID_1
JOIN Crime_Against_3 ca3 ON ca2.Crime_ID_2 = ca3.Crime_ID_2;

/*Query 5*/

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USE moco_crime_db;
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CREATE VIEW Query_IncidentsByCity AS  
SELECT i.Incident_ID, l.City  
FROM incidents i  
JOIN location l ON i.Location_ID = l.Location_ID  
WHERE l.City = 'ROCKVILLE';
```