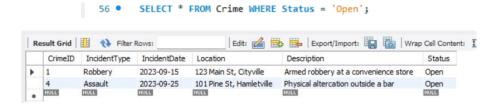
## **CRIME MANAGEMENT**

## **QUESTIONS:**

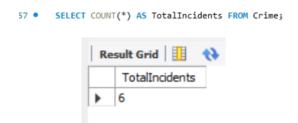
1. Select all open incidents.

SELECT \* FROM Crime WHERE Status = 'Open';



2. Find the total number of incidents.

SELECT COUNT(\*) AS TotalIncidents FROM Crime;

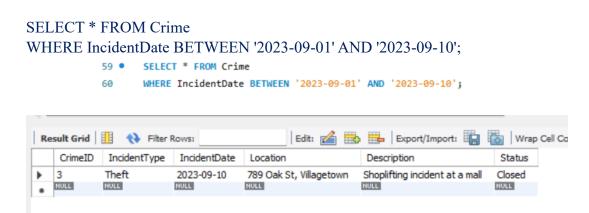


3. List all unique incident types.

SELECT DISTINCT IncidentType FROM Crime;



4. Retrieve incidents that occurred between '2023-09-01' and '2023-09-10'.



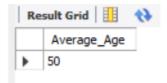
5. List persons involved in incidents in descending order of age.

select VictimId, CrimeID, NAme, Age from Victim order by Age desc;



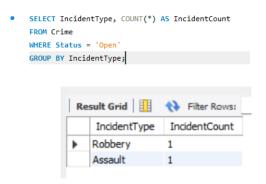
6. Find the average age of persons involved in incidents.

select round(avg(Age)) as Average\_Age from Victim;



7. List incident types and their counts, only for open cases.

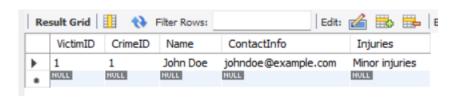
SELECT IncidentType, COUNT(\*) AS IncidentCount FROM Crime WHERE Status = 'Open' GROUP BY IncidentType;



8. Find persons with names containing 'Doe'.

SELECT \*
FROM Victim
WHERE Name LIKE '%Doe%';

SELECT \* FROM Victim WHERE Name LIKE '%Doe%';



9. Retrieve the names of persons involved in open cases and closed cases.

SELECT DISTINCT V.Name FROM Victim V JOIN Crime C ON V.CrimeID = C.CrimeID WHERE C.Status IN ('Open', 'Closed');

• SELECT DISTINCT V.Name
FROM Victim V

JOIN Crime C ON V.CrimeID = C.CrimeID
WHERE C.Status IN ('Open', 'Closed');

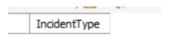


10.List incident types where there are persons aged 30 or 35 involved.

select c.IncidentType FROM Crime c join (SELECT CrimeID FROM Victim WHERE Age IN (30, 35)

**UNION** 

SELECT CrimeID FROM Suspect WHERE SAge IN (30, 35)) AS incident\_ids ON c.CrimeID = incident ids.CrimeID;



11. Find persons involved in incidents of the same type as 'Robbery'.

SELECT DISTINCT V.Name FROM Victim V JOIN Crime C ON V.CrimeID = C.CrimeID WHERE C.IncidentType = 'Robbery';

SELECT DISTINCT V.Name
 FROM Victim V
 JOIN Crime C ON V.CrimeID = C.CrimeID
 WHERE C.IncidentType = 'Robbery';



12.List incident types with more than one open case.

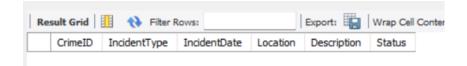
SELECT IncidentType, COUNT(\*) AS OpenCasesCount FROM Crime
WHERE Status = 'Open'
GROUP BY IncidentType
HAVING COUNT(\*) > 1;

IncidentType

OpenCasesCount

13.List all incidents with suspects whose names also appear as victims in other incidents.

```
SELECT C.*
FROM Crime C
JOIN (
    SELECT S.CrimeID
    FROM Suspect S
    WHERE EXISTS (
        SELECT 1
        FROM Victim V
        WHERE V.CrimeID = S.CrimeID
        AND V.Name = S.Name
    )
) AS Subquery ON C.CrimeID = Subquery.CrimeID;
```



14. Retrieve all incidents along with victim and suspect details.

SELECT c.\*, v.Name AS VictimName, v.ContactInfo AS VictimContactInfo, v.Injuries AS VictimInjuries,

s.Name AS SuspectName, s.Description AS SuspectDescription, s.CriminalHistory AS SuspectCriminalHistory FROM Crime c

LEFT JOIN Victim v ON c.CrimeID = v.CrimeID

LEFT JOIN Suspect s ON c.CrimeID = s.CrimeID;



15. Find incidents where the suspect is older than any victim.

select c.CrimeID, v.Age, s.SAge from Crime c join Victim v on c.CrimeID=v.CrimeID join Suspect s on v.crimeID=s.CrimeID where Sage>age;

	CrimeID	Age	SAge
•	1	40	78
	2	37	73
	3	49	50
	4	51	75
	6	29	63

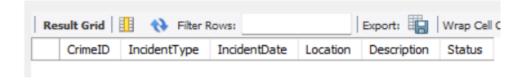
16. Find suspects involved in multiple incidents:

SELECT Name, COUNT(DISTINCT CrimeID) AS IncidentCount FROM Suspect GROUP BY Name HAVING COUNT(DISTINCT CrimeID) > 1;



17.List incidents with no suspects involved.

SELECT C.\*
FROM Crime C
LEFT JOIN Suspect S ON C.CrimeID = S.CrimeID
WHERE S.SuspectID IS NULL;



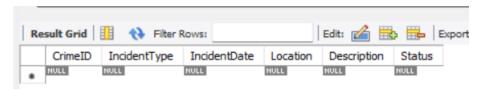
18.List all cases where at least one incident is of type 'Homicide' and all other incidents are of type 'Robbery'.

```
SELECT C.*

FROM Crime C

WHERE EXISTS (
    SELECT 1
    FROM Crime
    WHERE CrimeID = C.CrimeID AND IncidentType = 'Homicide'
)

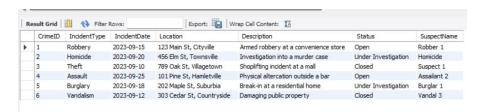
AND NOT EXISTS (
    SELECT 1
    FROM Crime
    WHERE CrimeID = C.CrimeID AND IncidentType != 'Robbery'
);
```



19. Retrieve a list of all incidents and the associated suspects, showing suspects for each incident, or 'No Suspect' if there are none.

SELECT C.\*, COALESCE(S.Name, 'No Suspect') AS SuspectName FROM Crime C

LEFT JOIN Suspect S ON C.CrimeID = S.CrimeID;



20.List all suspects who have been involved in incidents with incident types 'Robbery' or 'Assault'.

```
SELECT DISTINCT Name
FROM Suspect
WHERE CrimeID IN (
SELECT CrimeID
FROM Crime
WHERE IncidentType IN ('Robbery', 'Assault')
);
```

