Coding Challenge : 1 - Crime Management Database

1. Select all open Incidentsv

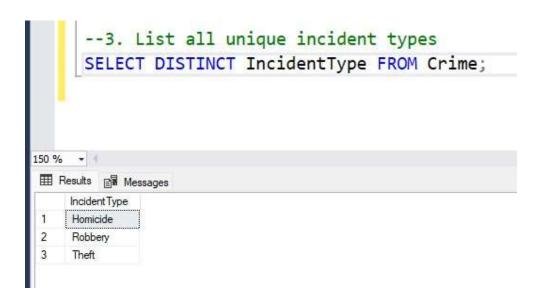
2. Total Number of Incidents

```
--2. Find the total number of incidents
select COUNT(*) as Total_Number_of_Incidents from Crime;

### Results ** Messages**

| Total_Number_of_Incidents | 1 | 3
```

3. List all Unique Incident Types



4. Incidents occurred between '2023-09'01 - '2023-09-10'

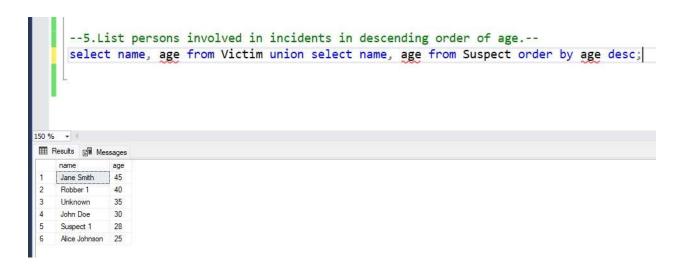
```
--4.Retrieve incidents that occurred between '2023-09-01' and '2023-09-10'.

select * from crime where IncidentDate between '2023-09-01' and '2023-09-10'

## Results | Messages | CrimeID | IncidentType | IncidentDate | Location | Description | Status |

1 | 3 | Theft | 2023-09-10 | 789 Oak St. Villagetown | Shoplifting incident at a mall | Closed
```

5. Persons involved in Incidents in Descending Order of Age



6. Average Age of Persons Involved in Incidents

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

select avg(age) as Average_Age from( select age from Victim union all select age from Suspect )
as People_Involved;

### Results **

Average_Age*

Average_Age*

1 33
```

7. List of Incident types and their counts for open cases only

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

select IncidentType, COUNT(*) as Incidents from Crime where status = 'open' group by IncidentType;

### Results | Messages | IncidentType | IncidentSype | IncidentSype
```

8. Persons with name DOE



9. Persons involved in Open Case and Close Case

10. Incident types where person's age is 30 or 35

11. Persons involved in Incidents of same types as 'Robbery'

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

select v.Name as Victim_Name, s.name as Suspect_Name from Crime c

left join Victim v on c.CrimeID = v.CrimeID

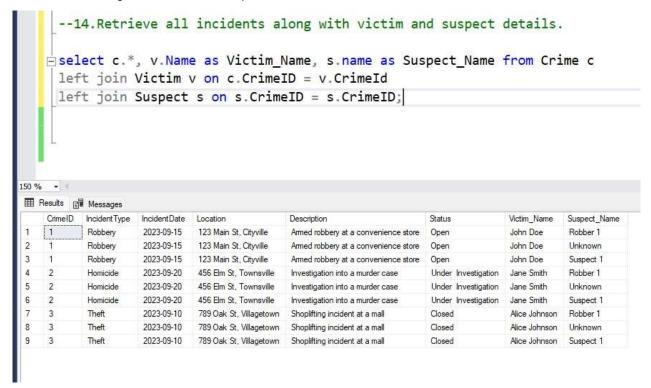
left join Suspect s on c.CrimeID = s.CrimeID

where c.IncidentType = 'Robbery';
```

12. Incident types with more than one open case

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

14. Incidents along with victim and suspect details.



15. Suspect is older than any victim

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

select c.* from Crime c join Suspect s on c.CrimeID = s.CrimeID

where s.Age > (Select Max(v.Age) from Victim v);

--Since there's no records in the crime table where the

--suspect's age is Greater than the maximum age of any victim.
```

16. Suspects involved in Multiple Incidents.

```
--16.Find suspects involved in multiple incidents.

select s.name, Count(c.CrimeId) as Incident_Count from Suspect s

join Crime c on s.CrimeID = c.CrimeID group by s.Name having count(c.CrimeID) > 1;

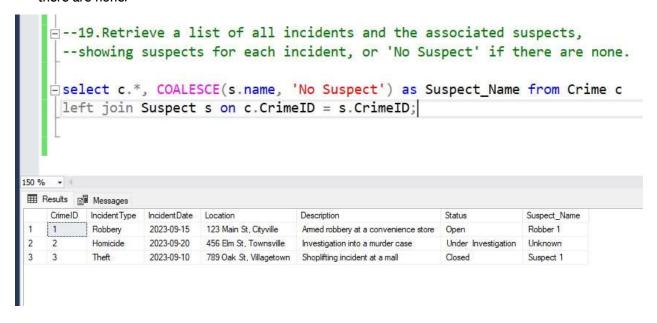
--Since there's no suspect involved in multiple incidents so output table going to be blank

B Results Resul
```

17. Incidents with no suspects involved

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

19. List of all incidents and associated suspects showing suspects for each incident or No Suspect if there are none.



20. Suspects who have been involved in incidents with types of Robbery or Assault

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

Select Distinct s.Name from Suspect s join Crime c on s.CrimeID = c.CrimeID

where c.IncidentType In('Robbery', 'Assault');

Besults Messages

Name

Robber1
```