Coding Challenge:- Crime Management



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--Q.5 List persons involved in incidents in descending order of age. alter table Victim add Age int;
     alter table Suspect add Age int;
     update Victim set Age = 25 where VictimID = 1;
update Victim set Age = 55 where VictimID = 2;
update Victim set Age = 30 where VictimID = 3;
     update Suspect set Age = 30 where SuspectID = 1;
update Suspect set Age = 28 where SuspectID = 2;
update Suspect set Age = 35 where SuspectID = 3;
   select Name, Age, 'Victim' as Role from Victim
    union all select Name, Age, 'Suspect' as Role from Suspect order by Age desc;
Name Age Role
Jane Smith 55 Victin
                   Victim
     Suspect 1
                   Suspect
    Alice Johnson 30 Victim
    Robber 1
    Unknown 28 Suspect
John Doe 25 Victim
       --Q.6 Find the average age of persons involved in incidents.
     select avg(Age) as Avereage_Age
       from( select Age from Victim
               union all
                select Age from Suspect) as All_Persons;
100 % ▼ ◀
 ■ Results ■ Messages
       Avereage_Age
     33
       --Q.7 List incident types and their counts, only for open cases.
     jselect IncidentType, count(*) as Incident_Count from Crime
       where Status = 'Open' group by IncidentType;
100 % ▼ ◀
 IncidentType Incident_Count
                     1
      Robbery
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Theft

where c.status in ('Open', 'Closed');

	Name	Status
1	John Doe	Open
2	Alice Johnson	Closed
3	Robber 1	Open
4	Suspect 1	Closed

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--Q.11 Find persons involved in incidents of the same type as 'Robbery'.
     select v.Name as Victime, s.name as Suspect 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';
 100 % ▼ ◀
  Victime
               Suspect
     John Doe Robber 1
    --Q.12 List incident types with more than one open case.
  □select IncidentType, count(*) as Open_Case_Count from Crime
   where Status = 'Open' group by IncidentType having count(*) > 1;
  --There is no more than 1 open incident
100 % ▼ ◀
IncidentType Open_Case_Count
   --Q.13 List all incidents with suspects whose names also appear as victims in other incidents.
  ⊡select c.* from Crime c
    join Suspect s on c.CrimeID =s.CrimeID
    where s.Name in (select v.Name from Victim v);
  🚊--There is no suspect whose name also appear as victim
100 % ▼ ◀

    ■ Results    ■ Messages

    CrimeID IncidentType IncidentDate Location Description Status
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--Q.14 Retrieve all incidents along with victim and suspect details.
   ⊑select c.*,
        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;
100 % ▼ 4
CrimeID IncidentType IncidentDate Location
                                                                                  Victim_Name Suspect_Name
                                            Description
                                                                     Status
                    2023-09-15 123 Main St, Cityville Armed robbery at a convenience 2023-09-20 456 Elm St, Townsville Investigation into a murder case
   1 Robbery
                                             Armed robbery at a convenience store
                                                                    Open
                                                                                  John Doe
                                                                                            Robber 1
2
           Homicide
                                                                     Under Investigation Jane Smith
                                                                                            Unknown
                    2023-09-10 789 Oak St, Villagetown Shoplifting incident at a mall
                                                                                  Alice Johnson Suspect 1
       --Q.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);
     \dot{\sqsubseteq}--There is no suspect older than any victim.
 100 % ▼ ◀
  CrimeID IncidentType IncidentDate Location Description Status
     --Q.16 Find suspects involved in multiple incidents:
    select s.SuspectID, s.Name, count(s.CrimeID) as Incident_count from Suspect s
      group by s.SuspectID, s.Name having count(s.CrimeID) > 1;
    ⊟--There is no suspect involved in multiple incidents
100 % ▼ ◀
SuspectID Name Incident_count
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--Q.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;
   ⊟--There is no incident with no suspects involved.
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CrimeID IncidentType IncidentDate Location Description Status
     --Q.18 List all cases where at least one incident is of type 'Homicide' and all other incidents are of type 'Robbery'.
    select distinct c1.CrimeID, c1.IncidentType , c1.IncidentDate, c1.Location, c1.Status from Crime c1
    where c1.IncidentType = 'Homicide'
or c1.CrimeID in(select c2.CrimeID from Crime c2
    where c2.IncidentType = 'Robbery');
 CrimeID IncidentType IncidentDate Location
 --Q.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;
Robber 1
     Hon...
Theft
               2023-09-10 789 Oak St, Villagetown Shoplifting incident at a mall
                                                     Closed
                                                                Suspect 1
   --Q.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');
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Name Robber 1