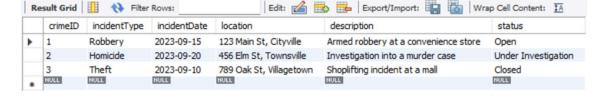
## **SQL CODING CHALLENGE: CRIME MANAGEMENT SYSTEM**

(I) Crime Management Shema DDL and DML: Database Design

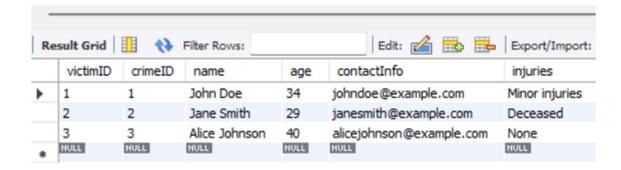
- Crime Table:

1 • SELECT \* FROM crime\_management\_system.crime;

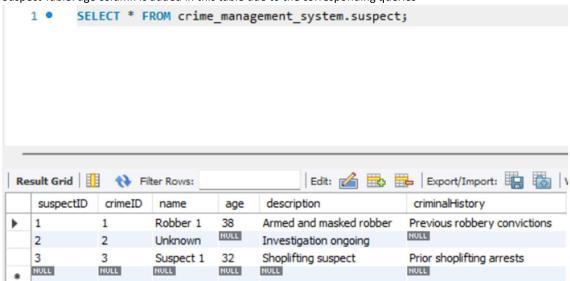


Victim Table: age column is added in this table due to the corresponding queries

5ELECT \* FROM crime\_management\_system.victim;

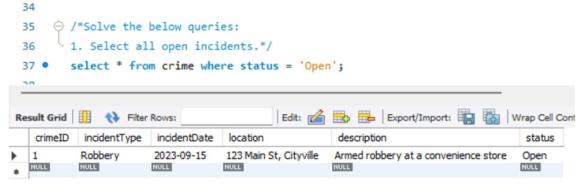


- Suspect Table: age column is added in this table due to the corresponding queries

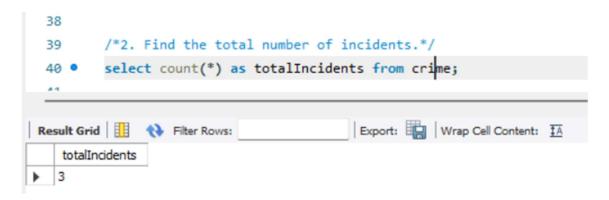


## (II) Solving the queries:

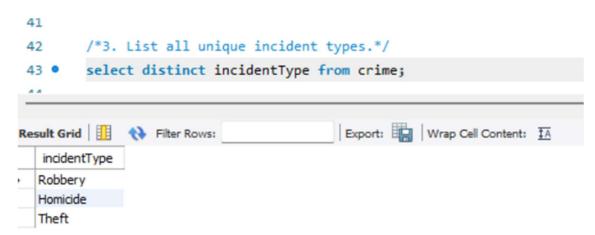
1. Select all open incidents



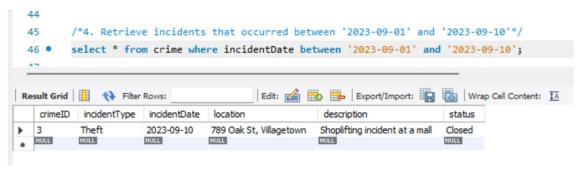
2. Find the total number of incidents



3. List all unique incident types



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

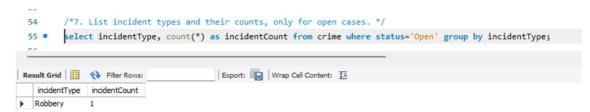


5. List persons involved in incidents in descending order of age



6. Find the average age of persons involved in incidents

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



8. Find persons with names containing 'Doe'

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

10. List incident types where there are persons aged 30 or 35 involved (There are no people aged 30 or 35)

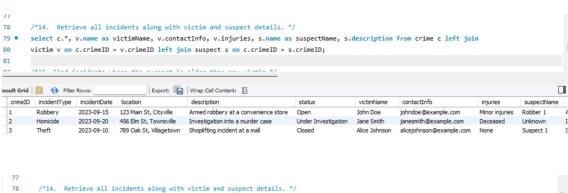
11. Find persons involved in incidents of same type as 'Robbery'

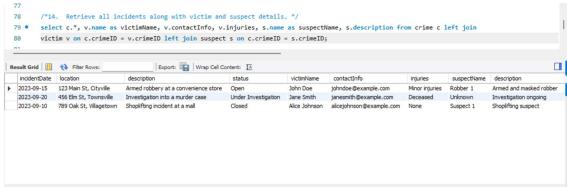
12. List incident types with more than one open case (There are no incidents with more than one open case

13. List all incidents with suspects whose names also appear as victims in other incidents (There are no incidents with same suspect and victim



14. Retrieve all incidents along with victim and suspect details





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



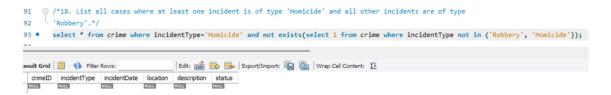
 Find suspects involved in multiple incidents (There are no incidents with suspects involved in multiple incidents



17. List incidents with no suspects involved



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



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



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

