

# Queries

**1. List of Cases whose Verdict was "life sentence" and was solved by Police working in PINCODE = "395028".**

```
SELECT A.Case_ID
FROM All_Cases AS A
JOIN Working AS W ON A.Case_ID = W.CID
JOIN Solved_Cases AS SC ON W.CID = SC.CID
JOIN Police_Personnel AS PP ON SC.PID = PP.Police_ID
JOIN Police_Station AS PS ON PP.Station_ID = PS.Aadhar_No
JOIN People AS P ON PS.Aadhar_No = P.Aadhar_No
WHERE SC.Verdict = 'Life Sentence'
AND PS.Pincode = '395028';
```

**2.All the police who once transferred to RJ9836.**

```
SELECT pp.Police_ID
FROM police_personal AS pp
JOIN Transfer AS t ON t.PID = pp.Police_ID
WHERE t.New_Station_Id = 'RJ9836';
```

**3.Criminals who have sentenced to death and were caught by police of topmost rank.**

```
SELECT p.FName,p.lname,w.pid
FROM People AS p
JOIN Solved_Cases AS sc ON sc.aadhar_no = p.Aadhar_no
JOIN All_Case AS ac ON sc.CID = ac.Case_ID
JOIN Workings AS w ON w.CID = ac.Case_ID
JOIN Police_personal AS pp ON pp.Police_ID = w.PID
WHERE sc.Verdict = 'Death Sentence' AND pp.Rank = 1;
```

**4.Display all those policemen who have worked/working in more than 1 case**

```
SELECT PID
FROM Workings
GROUP BY PID
HAVING COUNT(CID) > 1;
```

**5. Select name of person against whom a warrant was issued but was proved innocent later on.**

```
SELECT p.FName
FROM Warrant AS w
JOIN People AS p ON p.Aadhar_No = w.againt_aadhar
JOIN Solved_Cases AS sc ON sc.Aadhar_no = p.Aadhar_No
WHERE sc.Verdict = 'Innocent'
GROUP BY p.FName, w.againt_aadhar
HAVING COUNT(w.Warrant_no) = 1;
```

**6. Display suspects to have been sentenced to Death.**

```
SELECT p.FName ,p.aadhar_no
FROM suspects AS s
JOIN People AS p ON p.Aadhar_No = s.aadhar_no
JOIN Solved_Cases AS sc ON sc.Aadhar_no = p.Aadhar_No
WHERE sc.Verdict = 'Death Sentence'
```

**7. Display the number of guns in the station lead by Morgan.**

```
SELECT sid as station, station_incharge as incharge_id , quantity as no_of_guns
FROM Inventory AS i
JOIN Police_Station AS ps ON i.SID = ps.Station_ID
JOIN Police_Personal AS pp ON ps.Station_Incharge = pp.police_id
JOIN people ON pp.Aadhar_No = people.Aadhar_No
WHERE people.FName = 'Morgan'
AND i.Name_of_item = 'Guns';
```

**8.Display vehicles allocated to Gujarat police station and bought after 2002.**

```
SELECT v.*, ps.Station_id, Fname
FROM vehicles AS v
JOIN Police_Station AS ps ON v.SID = ps.Station_ID
JOIN Police_Personal AS pp ON ps.Station_Incharge = pp.police_id
natural join people
WHERE v.SID LIKE 'GJ%%%%'
AND v.Purchase_Year > 2002;
```

**9.Update the transfer table entry of pid=22538 after he has been transferred from Gujarat to Maharashtra police station.**

```
UPDATE Transfer
SET Old_Station = 'GJ1234', New_Station = 'MP9343'
WHERE PID = 22538;
```

**10.Display complete data of people doing morning sifts and age >40.**

```
SELECT *
FROM Shifts AS s
JOIN Police_Personal AS pp ON pp.Police_ID = s.PID
JOIN people AS p ON p.Aadhar_No = pp.Aadhar_No
WHERE s.Morning = 'Y' AND EXTRACT(YEAR FROM AGE(p.Dob)) > 40;
```

**11.Display Witness and Suspect details of a case.**

```
SELECT CID, Suspect_fname, Witness_fname
FROM
(
    SELECT s.CID, p1.fname as Suspect_fname, p2.fname as Witness_fname
    FROM Suspects as s
    JOIN people as p1 ON p1.Aadhar_No = s.Aadhar_No
    JOIN Witness as w ON s.CID = w.CID
    JOIN people as p2 ON p2.Aadhar_No = w.Aadhar_No
```

```
GROUP BY s.CID, p1.fname, p2.fname
```

```
INTERSECT
```

```
SELECT s.CID, p1.fname as Suspect_fname, p2.fname as Witness_fname
```

```
FROM Witness as w
```

```
JOIN people as p2 ON p2.Aadhar_No = w.Aadhar_No
```

```
JOIN Suspects as s ON s.CID = w.CID
```

```
JOIN people as p1 ON p1.Aadhar_No = s.Aadhar_No
```

```
GROUP BY s.CID, p1.fname, p2.fname
```

```
) AS common_cid;
```

## **12.Display no. of warrants issued by this each station.**

```
Select count(Warrant_No),Station_ID FROM Warrant as w JOIN Police_Personal as pp  
ON w.PID=pp.Police_ID
```

```
GROUP BY Station_ID;
```

## **13.Display the details of the members of the gang name : Ku Klux Klan (white supremacist).**

```
SELECT fname,mname,lname
```

```
FROM People
```

```
JOIN criminal_detail AS SC ON People.Aadhar_No = SC.Aadhar_No
```

```
WHERE gang_name = 'Ku Klux Klan (white supremacist)';
```

## **14.Give name of criminal against whom a case was filed by this police ID= 14367**

```
SELECT sc.CID, p.Fname
```

```
FROM Solved_Cases AS sc
```

```
JOIN Suspects AS s ON sc.CID = s.CID
```

```
JOIN All_Case AS ac ON sc.CID = ac.Case_ID
```

```
JOIN People AS p ON ac.Filed_By = p.Aadhar_No
```

```
WHERE ac.Filed_By = '14367';
```

**15. Give the no. of cases solved by each station\_incharge:**

```
SELECT ps.Station_Incharge, COUNT(sc.CID) AS No_of_Cases_Solved
FROM Solved_Cases AS sc
JOIN Workings AS w ON sc.CID = w.CID
JOIN Police_Personal AS pp ON w.PID = pp.Police_ID
JOIN Police_Station AS ps ON ps.Station_Incharge = pp.Police_ID
GROUP BY ps.Station_Incharge;
```

**16. List of people against whom max warrant is issued.**

```
Select Aadhar no. FROM (Warrant as w JOIN People as p ) ON w.Against_Aadhar =
p.Aadhar_No. GROUP BY Warrant_No.
```

**17. Display the details and age of police with rank=2.**

```
SELECT p.fname, pp.Police_ID, 2024 - EXTRACT(YEAR FROM p.DOB) AS Age
FROM People p
NATURAL JOIN Police_personal pp
WHERE pp.rank = 2;
```