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Experiment No.	C6
Topic	Crime Records

AIM:	To perform Join operations on database. • Equijoins, Non-Equijoins, Self Joins, Outer Join, cross Join
Program 1	
PROBLEM STATEMENT:	To perform Join operations on the database. Equijoins, Non-Equijoins, Self Joins, Outer Join (Left, right and full), Cross Join.

RESULT:

Table 1:

```
-- Create Criminal Table --

6 CREATE TABLE Criminal (

7 criminal_id INT PRIMARY KEY, name VARCHAR(30), birth_place VARCHAR(20), dob DATE, gender ENUM("Male", "Female"),

8 blood_group ENUM("O+", "A+", "B+", "O-", "A-", "B-", "AB-"), national_id BIGINT UNSIGNED, passport_id BIGINT UNSIGNED,

9 threat_level ENUM("Low", "High", "Severe"), previous_occupation_name VARCHAR(20),

10 previous_occupation_income INT UNSIGNED, current_occupation_name VARCHAR(20),

11 current_occupation_income INT UNSIGNED

);
```

Table 2:

```
37 • CREATE TABLE Physical_Appearance(id INT NOT NULL, height varchar(3), weight varchar(3),

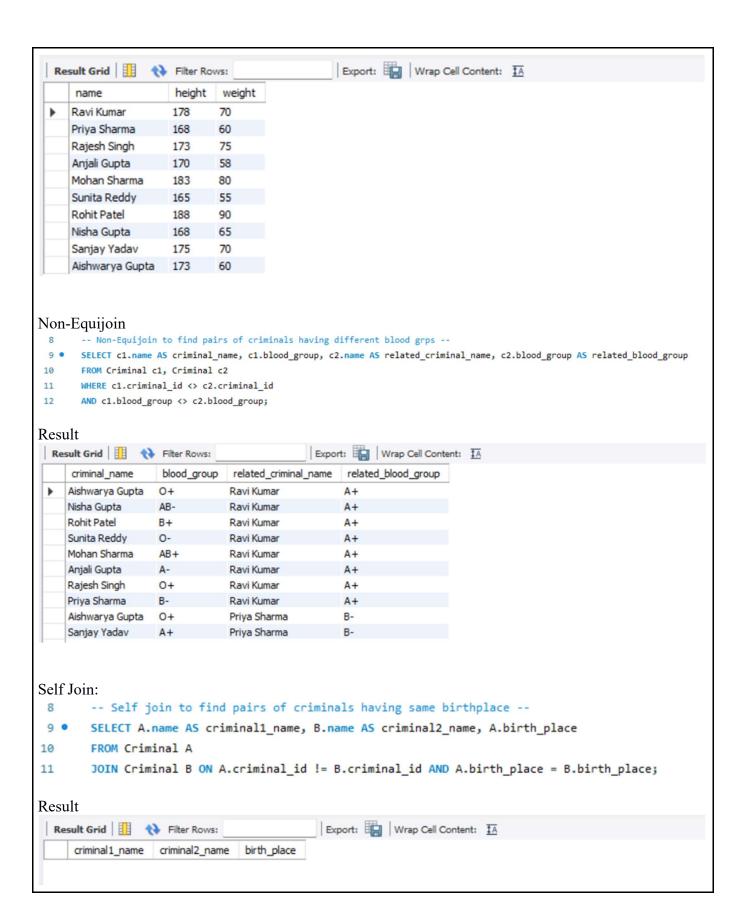
88 eye_color varchar(10), hair_color varchar(10), FOREIGN KEY (id) REFERENCES Criminal(criminal_id)

99 );
```

Equijoin:

```
-- Equijoin to get information about criminals and their physical appearances --
5ELECT name, height, weight
FROM Criminal
INNER JOIN Physical_Appearance ON Criminal_criminal_id = Physical_Appearance.id;
```

Result



Left Join: 13 -- Left Outer Join --14 • SELECT name, dob, gender, height, weight, eye_color, hair_color FROM Criminal 15 LEFT OUTER JOIN Physical_Appearance ON criminal_id = id; 16 Result Export: Wrap Cell Content: IA Result Grid Filter Rows: hair_color name dob gender height weight eye_color Ravi Kumar 1985-07-12 Male 178 70 Blue Black Priya Sharma 1990-04-25 Female 168 Black Red 60 Rajesh Singh 1980-12-08 Male 173 75 Hazel Brown Anjali Gupta 1995-09-17 170 58 Black Female Brown Mohan Sharma Male 183 Black 1988-03-04 80 Grey Sunita Reddy Brown 1992-11-21 Female 165 55 Brown Rohit Patel 1983-06-30 Male 188 90 Brown Black Nisha Gupta 1993-08-14 Female 168 65 Hazel Brown Sanjay Yaday 1987-02-19 Male 175 70 Brown Black 173 Black Aishwarya Gupta 1998-05-03 Female 60 Brown Right Join: 18 -- Right Outer Join --SELECT name, dob, gender, height, weight, eye_color, hair_color FROM Criminal 20 RIGHT OUTER JOIN Physical_Appearance ON criminal_id = id; 21 Result Result Grid Export: Wrap Cell Content: IA Filter Rows: name dob gender height weight eye_color hair_color Ravi Kumar 1985-07-12 Male 178 Blue Black Priya Sharma Red 1990-04-25 Female 168 60 Black Rajesh Singh 1980-12-08 Male 173 75 Hazel Brown 170 Brown Black Anjali Gupta 1995-09-17 Female 58 Mohan Sharma Male 183 80 Black 1988-03-04 Grey Sunita Reddy 1992-11-21 Female 165 55 Brown Brown Rohit Patel Male Black 1983-06-30 188 90 Brown Nisha Gupta 1993-08-14 Female 168 65 Hazel Brown Sanjay Yadav 1987-02-19 Male 175 70 Brown Black Aishwarya Gupta 1998-05-03 173 Black Female 60 Brown

Full Join: 23 -- Full Outer Join --24 • SELECT name, dob, gender, height, weight, eye_color, hair_color 25 LEFT JOIN Physical_Appearance ON criminal_id = id 26 27 28 SELECT name, dob, gender, height, weight, eye_color, hair_color FROM Criminal 29 30 RIGHT JOIN Physical_Appearance ON criminal_id = id; Result Result Grid Export: Wrap Cell Content: TA Filter Rows: dob hair_color name gender height weight eye_color 1985-07-12 Ravi Kumar Male 178 70 Blue Black Priya Sharma 1990-04-25 Female 168 60 Black Red Rajesh Singh Hazel 1980-12-08 Male 173 75 Brown Anjali Gupta 1995-09-17 Female 170 58 Brown Black Male Mohan Sharma 1988-03-04 183 80 Black Grey Sunita Reddy 1992-11-21 Female 165 55 Brown Brown Rohit Patel 1983-06-30 Male 188 90 Brown Black Nisha Gupta 168 Hazel Brown 1993-08-14 Female 65 Sanjay Yaday 1987-02-19 Male 175 70 Brown Black 1998-05-03 Female 173 60 Black Aishwarya Gupta Brown Cross Join: 33 -- Cross Join --SELECT name AS criminal_name, height, weight, eye_color, hair_color 34 0 35 FROM Criminal CROSS JOIN Physical_Appearance; Result Export: Wrap Cell Content: TA criminal_name eye_color height weight hair_color Black Aishwarya Gupta 178 70 Blue Sanjay Yadav 178 70 Blue Black Nisha Gupta 178 70 Blue Black Rohit Patel 178 70 Blue Black Sunita Reddy 178 Blue Black 70 Mohan Sharma Black 178 70 Blue Anjali Gupta 178 70 Blue Black Rajesh Singh 178 Blue Black 70 Priya Sharma Black 178 Blue Ravi Kumar 178 70 Blue Black