

Name	Mayank Ramji Ravariya
UID no.	2022600049
Experiment No.	C6
Topic	Crime Records

AIM:	To perform Join operations on database. • Equijoins, Non-Equijoins, Self Joins, Outer Join, cross Join
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Program 1

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

Table 1:

```

5  -- 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+", "AB+", "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
12 );

```

Table 2:

```

37 CREATE TABLE Physical_Appearance(id INT NOT NULL, height varchar(3), weight varchar(3),
38     eye_color varchar(10), hair_color varchar(10), FOREIGN KEY (id) REFERENCES Criminal(criminal_id)
39 );

```

Equijoin:

```

3  -- Equijoin to get information about criminals and their physical appearances --
4  SELECT name, height, weight
5  FROM Criminal
6  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
15      FROM Criminal
16      LEFT OUTER JOIN Physical_Appearance ON criminal_id = id;
```

Result


Result Grid






Filter Rows:

Export:



Wrap Cell Content:



	name	dob	gender	height	weight	eye_color	hair_color
▶	Ravi Kumar	1985-07-12	Male	178	70	Blue	Black
	Priya Sharma	1990-04-25	Female	168	60	Black	Red
	Rajesh Singh	1980-12-08	Male	173	75	Hazel	Brown
	Anjali Gupta	1995-09-17	Female	170	58	Brown	Black
	Mohan Sharma	1988-03-04	Male	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	1993-08-14	Female	168	65	Hazel	Brown
	Sanjay Yadav	1987-02-19	Male	175	70	Brown	Black
	Aishwarya Gupta	1998-05-03	Female	173	60	Brown	Black

Right Join:

```
18      -- Right Outer Join --
19 •    SELECT name, dob, gender, height, weight, eye_color, hair_color
20      FROM Criminal
21      RIGHT OUTER JOIN Physical_Appearance ON criminal_id = id;
```

Result

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	name	dob	gender	height	weight	eye_color	hair_color
▶	Ravi Kumar	1985-07-12	Male	178	70	Blue	Black
	Priya Sharma	1990-04-25	Female	168	60	Black	Red
	Rajesh Singh	1980-12-08	Male	173	75	Hazel	Brown
	Anjali Gupta	1995-09-17	Female	170	58	Brown	Black
	Mohan Sharma	1988-03-04	Male	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	1993-08-14	Female	168	65	Hazel	Brown
	Sanjay Yadav	1987-02-19	Male	175	70	Brown	Black
	Aishwarya Gupta	1998-05-03	Female	173	60	Brown	Black

Full Join:

```
23 -- Full Outer Join --
24 • SELECT name, dob, gender, height, weight, eye_color, hair_color
25 FROM Criminal
26 LEFT JOIN Physical_Appearance ON criminal_id = id
27 UNION
28 SELECT name, dob, gender, height, weight, eye_color, hair_color
29 FROM Criminal
30 RIGHT JOIN Physical_Appearance ON criminal_id = id;
```

Result

Result Grid

Filter Rows:

Export:

Wrap Cell Content:


	name	dob	gender	height	weight	eye_color	hair_color
▶	Ravi Kumar	1985-07-12	Male	178	70	Blue	Black
	Priya Sharma	1990-04-25	Female	168	60	Black	Red
	Rajesh Singh	1980-12-08	Male	173	75	Hazel	Brown
	Anjali Gupta	1995-09-17	Female	170	58	Brown	Black
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	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	Female	173	60	Brown	Black


Cross Join:

```
33 -- Cross Join --
34 • SELECT name AS criminal_name, height, weight, eye_color, hair_color
35 FROM Criminal
36 CROSS JOIN Physical_Appearance;
```

Result


Result Grid






Filter Rows:

Export:



Wrap Cell Content:



	criminal_name	height	weight	eye_color	hair_color
▶	Aishwarya Gupta	178	70	Blue	Black
	Sanjay Yadav	178	70	Blue	Black
	Nisha Gupta	178	70	Blue	Black
	Rohit Patel	178	70	Blue	Black
	Sunita Reddy	178	70	Blue	Black
	Mohan Sharma	178	70	Blue	Black
	Anjali Gupta	178	70	Blue	Black
	Rajesh Singh	178	70	Blue	Black
	Priya Sharma	178	70	Blue	Black
	Ravi Kumar	178	70	Blue	Black