

EXPERIMENT-7

AIM: Write SQL queries to perform JOIN OPERATIONS (i.e. CONDITIONAL JOIN, EQUI JOIN, LEFT OUTER JOIN, RIGHT OUTER JOIN, FULL OUTER JOIN)

CREATING TABLE student :

```
1 CREATE TABLE student(  
2   name VARCHAR(10),  
3   roll_no NUMBER,  
4   dept VARCHAR(10),  
5   PRIMARY KEY(name)  
6* )  
SQL-CSE530>/  
  
Table created.
```

Inserting tables into student table :

```
SQL-CSE530>INSERT INTO student VALUES ('Jagadeesh',530,'CSE');  
1 row created.  
  
SQL-CSE530>INSERT INTO student VALUES ('Bindu',529,'CSE');  
1 row created.  
  
SQL-CSE530>INSERT INTO student VALUES ('Jagan',531,'CSE');  
1 row created.  
  
SQL-CSE530>INSERT INTO student VALUES ('Arif',506,'CSM');  
1 row created.
```

```
SQL-CSE530>SELECT * FROM student;
```

NAME	ROLL_NO	DEPT
Jagadeesh	530	CSE
Bindu	529	CSD
Jagan	531	ECE
Arif	506	CSM

Creating table Library :

```
SQL-CSE530>CREATE TABLE library(  
2  roll_no NUMBER,  
3  book VARCHAR(10)  
4  );
```

Table created.

Inserting values into library table :

```
SQL-CSE530>INSERT INTO library VALUES (530,'DBMS');
```

1 row created.

```
SQL-CSE530>INSERT INTO library VALUES (531,'JAVA');
```

1 row created.

```
SQL-CSE530>INSERT INTO library VALUES (537,'MATHS');
```

1 row created.

```
SQL-CSE530>INSERT INTO library VALUES (528,'SE');
```

1 row created.

```
SQL-CSE530>SELECT * FROM library;
```

ROLL_NO	BOOK
530	DBMS
531	JAVA
537	MATHS
528	SE

CONDITIONAL JOIN :

```
SQL-CSE530>SELECT * FROM student JOIN library on student.roll_no =library.roll_no;
```

NAME	ROLL_NO	DEPT	ROLL_NO	BOOK
Jagadeesh	530	CSE	530	DBMS
Jagan	531	ECE	531	JAVA

EQUI JOIN :

```
SQL-CSE530>SELECT * FROM student JOIN library USING (roll_no);
```

ROLL_NO	NAME	DEPT	BOOK
530	Jagadeesh	CSE	DBMS
531	Jagan	ECE	JAVA

NATURAL LEFT OUTER JOIN :

```
SQL-CSE530>SELECT * FROM student NATURAL LEFT OUTER JOIN LIBRARY;
```

ROLL_NO	NAME	DEPT	BOOK
530	Jagadeesh	CSE	DBMS
531	Jagan	ECE	JAVA
506	Arif	CSM	
529	Bindu	CSD	

NATURAL RIGHT OUTER JOIN :

```
SQL-CSE530>SELECT * FROM student NATURAL RIGHT OUTER JOIN LIBRARY;
```

ROLL_NO	NAME	DEPT	BOOK
530	Jagadeesh	CSE	DBMS
531	Jagan	ECE	JAVA
528			SE
537			MATHS

NATURAL FULL OUTER JOIN :

```
SQL-CSE530>SELECT * FROM student NATURAL FULL OUTER JOIN LIBRARY;
```

ROLL_NO	NAME	DEPT	BOOK
530	Jagadeesh	CSE	DBMS
531	Jagan	ECE	JAVA
537			MATHS
528			SE
506	Arif	CSM	
529	Bindu	CSD	