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
```

EQUIJOIN:

```
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 * FR	ROM student	NATURAL RIGHT OUTER JOIN LIBRARY;
ROLL_NO NAME	DEPT	ВООК
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
```