EXPERIMENT-6

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:

```
SQL> CREATE TABLE student10(
2 name varchar(10),
3 roll_no number,
4 dept varchar(10),
5 primary key(name)
6 );
Table created.
```

Inserting tables into student table:

```
SQL> INSERT INTO student10 VALUES('SHIVA',531,'CSE');

1 row created.

SQL> INSERT INTO student10 VALUES('MOUNIKA',532,'CSE');

1 row created.
```

```
SQL> SELECT * FROM student10;

NAME ROLL_NO DEPT
SHIVA 531 CSE
MOUNIKA 532 CSE
JAGAN 530 CSE
ARJUN 505 CSE
```

```
3 book varchar(10)
       4);
     Table created.
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
```

SQL> CREATE TABLE library(

2 roll_no number,

528 SE

```
SQL> SELECT * FROM student10 JOIN library on student10.roll_no = library.roll_no;
NAME
              ROLL_NO DEPT
                                     ROLL_NO BOOK
SHIVA
                  531 CSE
                                         531 DBMS
MOUNIKA
                  532 CSE
                                         532 JAVA
JAGAN
                  530 CSE
                                         530 MATHS
ARJUN
                  505 CSE
                                         505 SE
```

EQUIJOIN:

```
SQL> SELECT * FROM student10 JOIN library USING (roll_no);
                     DEPT
                                 BOOK
  ROLL_NO NAME
      531 SHIVA
                     CSE
                                 DBMS
      532 MOUNIKA
                     CSE
                                 JAVA
      530 JAGAN
                     CSE
                                 MATHS
      505 ARJUN
                     CSE
                                 SE
```

NATURAL LEFT OUTER JOIN:

```
SQL> SELECT * FROM student10 NATURAL LEFT OUTER JOIN library ;
                      DEPT
  ROLL NO NAME
                                 BOOK
                      CSE
       531 SHIVA
                                 DBMS
       532 MOUNIKA
                      CSE
                                 JAVA
       530 JAGAN
                      CSE
                                 MATHS
       505 ARJUN
                      CSE
                                 SE
```

NATURAL RIGHT OUTER JOIN:

```
SQL> SELECT * FROM student10 NATURAL RIGHT OUTER JOIN library ;
   ROLL_NO NAME
                      DEPT
                                 BOOK
                      CSE
       531 SHIVA
                                 DBMS
       532 MOUNIKA
                      CSE
                                 JAVA
       530 JAGAN
                      CSE
                                 MATHS
       505 ARJUN
                      CSE
                                 SE
```

NATURAL FULL OUTER JOIN:

SQL> SELECT * FROM student10 NATURAL FULL OUTER JOIN library; ROLL_NO NAME DEPT BOOK 531 SHIVA CSE DBMS 532 MOUNIKA CSE JAVA 530 JAGAN CSE MATHS 505 ARJUN CSE SE