EXPERIMENT-7

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

CREATING TABLE student :

```
  1  CREATE TABLE studentt(
  2  name varchar(10),
  3  roll_no number,
  4  dept varchar(10),
  5  primary key(name)
  6* )
C##547>/

Table created.
```

Inserting tables into student table :

```
C##547>Insert into studentt values('tauheed',547,'cse');

1 row created.

C##547>Insert into studentt values('jagadeesh',530,'cse');

1 row created.

C##547>Insert into studentt values('navya',555,'cse');

1 row created.

C##547>Insert into studentt values('neha',559,'cse');

1 row created.
```

```
C##547>select * from studentt;

NAME           ROLL_NO DEPT
---------- ---------- ----------
tauheed            547 cse
jagadeesh          530 cse
navya              555 cse
neha               559 cse
```

Creating table Library :

```
C##547>CREATE TABLE library(
  2  roll_no NUMBER,
  3  book varchar(10)
  4  );

Table created.
```

Inserting values into library table :

```
C##547>INSERT INTO library values(547,'dbms');

1 row created.

C##547>INSERT INTO library values(559,'java');

1 row created.

C##547>INSERT INTO library values(555,'maths');

1 row created.

C##547>INSERT INTO library values(554,'se');

1 row created.
```

```
C##547>select * from library;

   ROLL_NO BOOK
---------- ----------
       547 dbms
       559 java
       555 maths
       554 se
```

CONDITIONAL JOIN :

```
C##547>select * from studentt join library on studentt.roll_no=library.roll_
no;

NAME          ROLL_NO DEPT          ROLL_NO BOOK
---------- ---------- ---------- ---------- ----------
tauheed           547 cse               547 dbms
neha              559 cse               559 java
navya             555 cse               555 maths
```

EQUI JOIN :

```
C##547>select * from studentt join library using (roll_no);

    ROLL_NO NAME          DEPT          BOOK
----------- ----------- ----------- -----------
        547 tauheed       cse           dbms
        559 neha          cse           java
        555 navya         cse           maths
```

NATURAL LEFT OUTER JOIN :

```
C##547>select * from studentt NATURAL LEFT OUTER JOIN LIBRARY;

    ROLL_NO NAME          DEPT          BOOK
----------- ----------- ----------- -----------
        547 tauheed       cse           dbms
        559 neha          cse           java
        555 navya         cse           maths
        530 jagadeesh     cse
```

NATURAL RIGHT OUTER JOIN :

```
C##547>select * from studentt NATURAL RIGHT OUTER JOIN LIBRARY;

    ROLL_NO NAME          DEPT          BOOK
----------- ----------- ----------- -----------
        547 tauheed       cse           dbms
        555 navya         cse           maths
        559 neha          cse           java
        554                             se
```

NATURAL FULL OUTER JOIN :

```
C##547>select * from studentt NATURAL FULL OUTER JOIN LIBRARY;

    ROLL_NO NAME          DEPT          BOOK
----------- ----------- ----------- -----------
        547 tauheed       cse           dbms
        559 neha          cse           java
        555 navya         cse           maths
        554                             se
        530 jagadeesh     cse
```