

EXPERIMENT-6

Step-1: Create student table and blocks table

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.2861]
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C:\Users\dandu>sqlplus

SQL*Plus: Release 21.0.0.0.0 - Production on Tue Dec 19 16:57:26 2023
Version 21.3.0.0.0

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Enter user-name: system
Enter password:
Last Successful login time: Tue Dec 19 2023 08:06:11 +05:30

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> CREATE TABLE student1(
  2 roll_no NUMBER PRIMARY KEY,
  3 name VARCHAR2(50) NOT NULL,
  4 dept_name VARCHAR2(10) NOT NULL
  5 );

Table created.

SQL> CREATE TABLE blocks1(
  2 dept_name VARCHAR2(10) PRIMARY KEY,
  3 block_name VARCHAR2(20) NOT NULL
  4 );

Table created.

SQL> INSERT INTO student1 VALUES(519,'GAYATRI','CSM');

1 row created.

SQL> INSERT INTO student1 VALUES(523,'GREESHMA','CSE');

1 row created.
```

Step-2: Insert values into student and blocks table and check whether rows are inserted or not

```
C:\WINDOWS\system32\cmd. x + v

SQL> INSERT INTO student1 VALUES(519,'GAYATRI','CSM');

1 row created.

SQL> INSERT INTO student1 VALUES(523,'GREESHMA','CSE');

1 row created.

SQL> INSERT INTO student1 VALUES(557,'NANDINI','CSD');

1 row created.

SQL> SELECT * FROM student1;

  ROLL_NO NAME                                DEPT_NAME
-----
      519 GAYATRI                                CSM
      523 GREESHMA                               CSE
      557 NANDINI                                CSD

SQL> INSERT INTO blocks1 VALUES('CSM','B-BLOCK');

1 row created.

SQL> INSERT INTO blocks1 VALUES('CSE','MAIN BLOCK');

1 row created.

SQL> INSERT INTO blocks1 VALUES('CSD','A-BLOCK');

1 row created.

SQL> SELECT * FROM blocks1;

DEPT_NAME  BLOCK_NAME
-----
CSM        B-BLOCK
CSE        MAIN BLOCK
CSD        A-BLOCK
```

Step-3: Perform JOIN OPERATIONS

```
C:\WINDOWS\system32\cmd. x + v

SQL> SELECT * FROM student1
2 JOIN blocks1 ON
3 student1.dept_name=blocks1.dept_name;

ROLL_NO NAME DEPT_NAME
-----
DEPT_NAME BLOCK_NAME
-----
CSM 519 GAYATRI B-BLOCK CSM
CSE 523 GREESHMA MAIN BLOCK CSE
CSD 557 NANDINI A-BLOCK CSD

SQL> SELECT * FROM student1 JOIN blocks1
2 USING(dept_name);

DEPT_NAME ROLL_NO NAME
-----
BLOCK_NAME
-----
CSM 519 GAYATRI
B-BLOCK
CSE 523 GREESHMA
MAIN BLOCK
CSD 557 NANDINI
A-BLOCK

SQL> SELECT * FROM student1
2 LEFT OUTER JOIN blocks1 ON
3 student1.dept_name=blocks1.dept_name;
```

```
C:\WINDOWS\system32\cmd. x + v

SQL> SELECT * FROM student1
2 LEFT OUTER JOIN blocks1 ON
3 student1.dept_name=blocks1.dept_name;

ROLL_NO NAME DEPT_NAME
-----
DEPT_NAME BLOCK_NAME
-----
CSM 519 GAYATRI B-BLOCK CSM
CSE 523 GREESHMA MAIN BLOCK CSE
CSD 557 NANDINI A-BLOCK CSD

SQL> SELECT * FROM student1
2 RIGHT OUTER JOIN blocks1 ON
3 student1.dept_name=blocks1.dept_name;

ROLL_NO NAME DEPT_NAME
-----
DEPT_NAME BLOCK_NAME
-----
CSM 519 GAYATRI B-BLOCK CSM
CSE 523 GREESHMA MAIN BLOCK CSE
CSD 557 NANDINI A-BLOCK CSD

SQL> SELECT * FROM student1
2 FULL OUTER JOIN blocks1
3 ON
4 student1.dept_name=blocks1.dept_name;
```

```
C:\WINDOWS\system32\cmd. x + v

SQL> SELECT * FROM student1
2 RIGHT OUTER JOIN blocks1 ON
3 student1.dept_name=blocks1.dept_name;

ROLL_NO NAME DEPT_NAME
-----
DEPT_NAME BLOCK_NAME
-----
CSM 519 GAYATRI B-BLOCK CSM
CSE 523 GREESHMA MAIN BLOCK CSE
CSD 557 NANDINI A-BLOCK CSD

SQL> SELECT * FROM student1
2 FULL OUTER JOIN blocks1
3 ON
4 student1.dept_name=blocks1.dept_name;

ROLL_NO NAME DEPT_NAME
-----
DEPT_NAME BLOCK_NAME
-----
CSM 519 GAYATRI B-BLOCK CSM
CSE 523 GREESHMA MAIN BLOCK CSE
CSD 557 NANDINI A-BLOCK CSD

SQL>
```

END