EXPERIMENT-4

AIM : To create/perform relational set operations(i.e UNION UNIONALL,INTERSECT,MINUS,CROSS JOIN,NATURAL , JOIN.)

Creating tables :

```
SQL> CREATE TABLE students3 (
  2     student_id INT PRIMARY KEY,
  3     name VARCHAR(50),
  4     age INT,
  5  email VARCHAR(100),
  6     registration_date NUMBER
  7  );

Table created.
```

```
SQL> CREATE TABLE courses1 (
  2     course_id INT PRIMARY KEY,
  3     course_name VARCHAR(50),
  4     instructor VARCHAR(50),
  5     start_date NUMBER,
  6     end_date NUMBER
  7  );

Table created.
```

Inserting values into **personal_data** table :

```
SQL> INSERT INTO students3 VALUES(1,'jaggu',10,'jaggu@gmail.com',2023-10-10);

1 row created.

SQL> INSERT INTO students3 VALUES(2,'govardhan',10,'govardhan@gmail.com',2023-10-11);

1 row created.

SQL> INSERT INTO students3 VALUES(3,'kutty',11,'kutty@gmail.com',2023-10-12);

1 row created.

SQL> INSERT INTO students3 VALUES(4,'sonu',12,'sonu@gmail.com',2023-10-13);

1 row created.
```

Inserting values into **information** table :

```
SQL> INSERT INTO courses1 VALUES(11,'cse','shiva',2023-10-13,2023-10-30);

1 row created.

SQL> INSERT INTO courses1 VALUES(12,'csd','shamu',2023-10-14,2023-11-30);

1 row created.

SQL> INSERT INTO courses1 VALUES(13,'csm','sharun',2023-10-15,2023-11-28);

1 row created.

SQL> INSERT INTO courses1 VALUES(14,'eee','shonn',2023-10-16,2023-11-27);

1 row created.

SQL> INSERT INTO courses1 VALUES(15,'ece','shony',2023-10-18,2023-11-23);

1 row created.
```

Union operation :

```
SQL> SELECT name from students3
  2  UNION
  3  SELECT course_name from courses1;

NAME
---------------------------------------
csd
cse
csm
ece
eee
govardhan
jaggu
kutty
sonu

9 rows selected.
```

Union all operation :

```
SQL> SELECT name from students3
  2  UNION ALL
  3  SELECT course_name from courses1;

NAME
---------------------------------------------------
jaggu
govardhan
kutty
sonu
cse
csd
csm
eee
ece

9 rows selected.
```

Intersect operation :

```
SQL> SELECT name from students3
  2  INTERSECT
  3  SELECT course_name from courses1;

no rows selected
```

Minus operation :

```
SQL> SELECT name from students3
  2   MINUS
  3   SELECT course_name from courses1;

NAME
------------------------------------------
govardhan
jaggu
kutty
sonu
```