

224G1A0535

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