



Lab Sheet 7 (II)

Subqueries

Set Membership, Set operations, Set Comparison, Test for empty relations

Table instances

SQL> select * from STUD_21mia1119;

| SQL> select * from STUD_21mia1119; | | | | | | | | |
|------------------------------------|------|------|--|--|--|--|--|--|
| REGNO | NAME | CGPA | | | | | | |
| 101 | SAI | 7.3 | | | | | | |
| 102 | JAI | 8.2 | | | | | | |
| 103 | ANN | 8.9 | | | | | | |
| | | | | | | | | |

SQL> select * from STUD_hobby_21mia1119;

```
SQL> select * from STUD_hobby_21mia1119;

REGNO HOBBY

101 reading
102 playing
103 singing
```

- 1. Set Membership in, not in
- 2. Set Comparison some, all
- 3. Test for empty relations exists, not exists
- 4. Set operations union, intersect, minus

Membership - in

1) Q. list the student details whose hobby is 'playing

```
SQL> select*from STUD_21mia1119 where REGNO in(select REGNO from STUD_hobby_21mia1119 where hobby='playing');

REGNO NAME

CGPA

102 JAI

8.2
```

2) Q. list the student details whose hobby is not 'playing'

```
SQL> select*from STUD_21mia1119 where REGNO not in(select REGNO from STUD_hobby_21mia1119 where hobby='playing');

REGNO NAME

CGPA

101 SAI

7.3

103 ANN

8.9
```

Union:

3) Q. List the student details who has academic or hobby information

Set Operations:

```
REGNO
------
101
102
103
104
105
106
6 rows selected.
```

Intersection:

4) Q. List the student details who has academic and hobby information

Set Diffierence:

5) Q. List the student details who has academic but not hobby information

Set Diffierence:

6) Q. List the student details who has hobby but not academic information

Some, all, any

7) Q. List the student details who have scored more cgpa greater than atleast one student

8) Q. List the student details who have scored more cgpa greater than all the students

```
no rows selected
```

9) Q. List the student details who have scored maximum cgpa

```
SQL> select * from stu_21mia1118 where exists(select regno from stu_21mia1118 where regno=105);
```

12) Q. list the details if there does not exists a regno 105

| · | | 1977 | | , | Ü | - | | ., |
|-------|-------|------|------|---|---|---|--|----|
| REGNO | NAME | | CGPA | | | | | |
| | | | | | | | | |
| 101 | sai | | 7.3 | | | | | |
| 102 | jai | | 8.2 | | | | | |
| 103 | | | 8.9 | | | | | |
| 104 | raj | | 9.9 | | | | | |
| | david | | 9.5 | | | | | |

13) Q. list the details if there exists a cgpa 9

```
no rows selected
```

14) Q. update the cgpa of all students, if he has a hobby;