

DBMS LAB – 5

1. Find the names of all the students whose total credits are greater than 100

```
university_varsha=# select name from student
where tot_cred > 100;
   name
-----
Shreya
Kanaka
(2 rows)
```

2. Find the course id and grades of all courses taken by any student named 'Tanaka'

```
university_varsha=# select course_id,grade
from takes as t,student as s
where name='Tanaka' and t.id=s.id;
   course_id | grade
-----+-----
    CS-201   |    A
    EC-254   |    B
(2 rows)
```

3. Find the ID and name of instructors who have taught a course in the Comp. Sci. department, even if they are themselves not from the Comp. Sci. department. To test this query, make sure you add appropriate data, and include the corresponding insert statements along with your query.

```
university_varsha=# select distinct i.id, i.name
from instructor as i,course as c,department as d,teaches as t
where i.dept_name!='Comp. Sci.' and i.id = t.id and t.course_id = c.course_id and c.dept_name = 'Comp.
Sci.';
   id  | name
-----+-----
 98346 | Ashok
(1 row)
```

4. Find the courses which are offered either in 'Fall' and 'Spring' semester (not necessarily in the same year).

```
university_varsha=# select distinct c.title
from course as c,section as s
where (s.semester = 'Fall' or s.semester='Spring') and s.course_id=c.course_id;
      title
-----
Computer Networking
Digital Communication
Embedded system design
Genetics
(4 rows)
```

- 5 Find the names of all the instructors from Comp. Sci. department

```
university_varsha=# select name
from instructor
where dept_name='Comp. Sci.';
      name
-----
Ramanujan
Srinivas
(2 rows)
```

6. Find the course id and titles of all courses taught by an instructor named 'Ramanujan'

```
university_varsha=# select c.course_id,c.title
from course as c,teaches as t,instructor as i
where i.name='Ramanujan' and i.id=t.id and t.course_id=c.course_id;
 course_id |      title
-----+-----
CS-101     | Intro. to Computer Science
CS-201     | Computer Networking
(2 rows)
```

7. Find names of instructors who have taught at least one course in Spring 2020

```
university_varsha=# select i.name
from instructor as i,teaches as t
where t.semester = 'Spring' and t.year=2020 and t.id=i.id;
      name
-----
Ramanujan
(1 row)
```