ASSIGNMENT 1: BASIC SQL

- **Statement:** Write the simple SQL queries on the given schema.
- A. Write the following simple SQL Queries on the University Schema.
- 1. Find the names of all the students whose total credits are greater than 100.

Query: SELECT name, tot cred From student WHERE tot cred > 100;

Output:

NAME	
Zhang	
Chavez	
Tanaka	

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

Query: SELECT course_id, grade from takes where id(select id from student where name='Tanaka');

COURSE_ID	GR	
BIO-101	Α	
BIO-301	NULL	

```
mysql> select course_id,grade from takes where id =(select id from student where name='Tanaka');
+------+
| course_id | grade |
+-----+
| BIO-101 | A |
| BIO-301 | NULL |
+-----+
2 rows in set (0.00 sec)
```

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

Query: select course_id, title from course where course_id=(select course_id from teaches as F where semester='Fall' and exists(select* from teaches as S where semester='Spring' and F.course_id=S.course_id));

Output:

COURSE_Id	TITLE
CS-101	Intro. to Computer Science

4. Find the names of all the instructors from Comp. Sci. department.

Query: select name from instructor where dept_name = 'Comp. Sci.';

NAME	
Srinivasan	
Katz	
Brandt	

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

Query: select course.course_id, course.title from course where course.course_id=some(select teaches.course_id from teaches where teaches.id=(select instructor.id from instructor where instructor.name=='Srinivasan'));

COURSE_Id	TITLE
CS-101	Intro. to Computer Science
CS-315	Robotics
CS-347	Database System Concepts

6. Find the names of instructors who have taught at least one course in Spring 2009.

Query: select o.name,i.semester,i.year from instructor o inner join teaches i on o.ID=i.ID where i.semester = 'Spring' and i.year = '2009';