**Lab 1**

**DBMS CS-231**

**Purpose:**

This assignment mainly focuses on how to create tables, querying data and modify records.

**Note: Use SQL**

Create a database “Students” that is used to store student information. The database has 5 tables.

T1: Personal information table (Roll\_no, Name, Phone\_no.)

T2: Courses information table (Course\_id , Name)

T3: Courses of students table (Roll\_no.#, Course\_id#)

T4: Faculty course table (Fac\_id#, Course\_id#)

T5: Faculty table (Faculty\_name, Fac\_id, Salary)

Consider the **Student** database created above where primary keys are underlined and key with # signifies foreign key. Construct the following SQL queries for the relational database.

1. Write a SQL query to create above 5 tables.
2. Write a SQL query to insert at least 5 rows in each table.
3. Print all the inserted data in “Personal information table”.
4. Update:

* Change the Phone no. of a student given his Roll no.
* Delete the record from personal information table where the Phone no. is given

5. Join

* Name the students who has taken a particular course (Course\_id is given)
* Name of courses taken by faculty (Fac\_id is given)
* Name of students taught by a particular faculty (Fac\_id is given)