Aim 1: Create a relational database schema for a Minor-Project, described by the following relations and Insert tuples.

STUDENT (Rollno, Name, Sem, Degree, Contact no, Guide_No)
GUIDE (Guide_name, Guide_No, Guide_reserach_domain, Contact_No, Email_Id)
PROJECT (Project_No, Project_title, Project_Area, Start_dt, Guide_No)

Specify the following gueries in SQL on the database schema Minor Project.

- 1) Change the data type of attribute Rollo (Student Table), from Number (10) to Varchar2 (10).
- 2) Add a Check constraint on Gender attribute(Student Table) such that this attribute accept only ("M","F",

"m","f") values.

- 3) Add a constraint on Degree (Student table), such that no null values be inserted.
- 4) Find the list of guide, who are guiding more than two student groups.
- 5) Find the list of project no, project name & DataBase.
- 6) Show all different project area with total no of project associated with it.
- 7) Print the student detail along with their Guide details.

Aim 1: Create a relational database schema for a University, described by the following relations and Insert tuples.

CLASSROOM (Building, Room Number, capacity)

DEPARTMENT (Dept name, building, budget)

COURSE (Course id, title, dept name, credits)

INSTRUCTER (I ID, name, dept name, salary)

SECTION (Course id, secid, semester, year, building, room number, time slot id)

Specify the following queries in SQL on the database schema University.

- 1) Increment Salary of each instructor by 10%, who is working in Department CSE.
- 2) Update the Room no for Course scheduled on 12.30-01.25 from RN-204 to RN-102.
- 3) Retrieve the names of all instructors, along with their department names.
- 4) Find the names of all instructors in the Computer Science department who have salary greater than

Rs.70,000.

- 5) Show all the subjects which have assigned maximum credits.
- 6) Find the instructor name that is getting third highest salary.

Aim 1: Create a relational database schema for a Company, described by the following relations and Insert tuples.

Employee (F_name, L_name, Emp_id, Bdate, Address, Gender, Salary, DNo)
Department (D_name, Dno, D_Mgr_id, Mgr_start_date)

Dept_Location(D_no, D_location)
Project (P_name, P_number, P_location, D_no)
Works_on (Emp_id, P_no, Hours)
Dependent (Emp_id, Dependent_name, Gender, Bdate, Relationship)

Specify the following queries in SQL on the database Company

- 1) Company decided to give a raise on salaries of every employee,working on the "ProductX" project by 10 percent.
- 2) Find the names and address of all employees who work in same department.
- 3) Retrieve the name & amp; employee id of employees, whose salary is between Rs.30,000 and Rs.40,000.
- 4) Find the names of all employees who are directly supervised by "Franklin"
- 5) List the name and address of all employees who work for the "Research" department.
- 6) List the names of employees who works on all project controlled by department number 5.