Poornima University

School of Computer Science and Engineering

Database Management System

**Lab2**

Exercise 1: Create a table COURSES as follows (decide the suitable data type yourself):

CourseID Alphanumeric 10 characters or less

CourseName Alphanumeric 20 characters or less

InstructorID Alphanumeric 10 characters or less

Exercise 2: In the above table COURSES, insert the below data:

**CourseID CourseName InstructorID**

MATH101 Calculus-1 M10001

PHY101 Mechanics P20001

CHEM101 Inorganic Chem C30001

LANG101 English-1 L40001

Exercise 3: Creata a table INSTRUCTOR as follows (decide suitable data type yourself):

InstructorID 10 alphanumeric characters or less

InstructorName 15 alphanumeric characters or less

RoomNum 3 digit number

ResearchArea 25 alphanumeric characters or less

Exercise 4: Insert the following records into the table:

**InstructorID InstructorName RoomNum ResearchArea**

M10001 Gokul Sharma 401 Graph Theory

P20001 Rita Singh 311 Newtonian Mechanics

C30001 Gaurav Meena 507 Exothermic Processes

L40001 Zahid Ahmed 204 Oscar Wilde

G50001 Subodh Gandhi 204 Physical Fitness

Exercise 5: From COURSES table, display CourseID and InstructorID **attributes** of those records where CourseID is MATH101.

Exercise 6: From INSTRUCTOR table, display InstructorID, InstructorName and ResearchArea **attributes** of all those **tuples** where RoomNum is 204.

Exercise 7: From COURSES and INSTRUCTOR **relations**, display the attributes CourseID, CourseName, InstructorName and RoomNum where COURSES.InstructorID = INSTRUCTOR.InstructorID

Exercise 8: Delete all those tuples from INSTRUCTOR where RoomNum is 204.