

Assignment 1 (Submission date:12th November)

Submission report should include the query commands used and screenshot of outputs

Part I

Consider following databases and draw ER diagram(using any ER Drawing tool available online) and convert entities and relationships to relation table for a given scenario.

1. COLLEGE DATABASE:

STUDENT (USN, SName, Address, Phone, Gender)

SEMSEC (SSID, Sem, Sec)

CLASS (USN, SSID)

SUBJECT (Subcode, Title, Sem, Credits)

MARKS (USN, Subcode, SSID, Test1, Test2, Test3, Final)

2. COMPANY DATABASE:

EMPLOYEE (SSN, Name, Address, Sex, Salary, SuperSSN, DNo)

DEPARTMENT (DNo, DName, MgrSSN, MgrStartDate)

DLOCATION (DNo,DLoc)

PROJECT (PNo, PName, PLocation, DNo)

WORKS_ON (SSN, PNo, Hours)

Part II

Consider the database for an organisation. Write the queries for the following (Schema of the tables depends on your creativity; Also include the fields and values mentioned in the question'

- (i) Add 5 rows in the employee and dept tables
- (ii) Display all the records from the above tables
- (iii) Display the empno and name of all the employees from department 'Research'
- (iv) Display empno,name,designation,dept no and salary in the descending order of salary
- (v) Display the empno and name of all employees whose salary is between 20000 and 50000
- (vi) Display all designations without duplicate values.
- (vii) Display the dept name and total salary of employees of each department.
- (viii) Change the salary of employees to 25000 whose designation is 'Typist'
- (ix) Change the mobile no of employee named 'john'

(x) Delete all employees whose salaries are equal to Rs.70000,; Select the department that has total salary paid for its employees more than 25000

Note: There are three departments: Research, Administration, Headquarters