



COMPUTER ENGINEERING DEPARTMENT

Vision: “To contribute to society through excellence in scientific & knowledgeable based education of computer science professional”.

Mission:

- To transform students into technically components, socially responsible & ethical computer science professionals
- To promote a creative teaching-learning process that will strive for academic excellence in the field of computer engineering.
- To enhance the technical expertise of students through workshop & industry-institute interaction

Subject Name:- Database Management System (313302)

Date :-12/08/2024

Assignment No :-II /

Course Outcome:

CO1 - Explain concept of database management system.

CO2 - Design the database for a given problem.

CO3 - Manage database using SQL.

Unit 1:-Introduction to Database concept(12M) & Unit 2:-Relational data Model & Unit 3:- Interactive SQL and Performance Tuning

2M Questios

- a) Define data and database.
- b) Enlist all DDL, DML, TCL, DCL commands.
- c) Write difference between DROP and TRUNCATE command.
- d) Explain strong & weak entity with ex.
- e) List two advantages of DBMS over file system & List two application of DBMS
- f) Write syntax for UPDATE, DELETE, ALTER command with example.
- g) Write any two rules by E.F.Codd.
- h) Define i) Primary Key ii) Foreign key iii) Super Key iv) Candidate key with ex? C301.2
- i) Define Normalization. Enlist its types .

4M Questions

- a) Draw ER diagram for employee management system and explain relationship between entities and labeled attributes properly.
- b) Create table(book_id primary key,book_name unique,author not null,no_of_copies not null,price check)
Write down the SQL queries for following
 - i) Write a command to create book table.
 - ii) Display all records whose price is between 700 and 900.
 - iii) Display all books whose price is equal to 400.
 - iv) Insert 2 values into book table.
 - v) Update the book record whose price is 100 update it to 400.
- c) Describe data abstraction in detail with dig?
- d) Create table employee(emp_id primary key,emp_name not null,emp_age check,salary check)
 - i) Display details of employee whose age is less than 40.
 - ii) Display details of employee whose age is in between 20 and 30.
 - iii) Display details of employee whose name ends with A.
 - iv) Display details of employee whose age is greater than 20 and its name contains e.?
- e) Define E-R diagram and draw and explain each component of E-R diagram?
- f) Explain 2-tier & 3 tier architecture in DBMS with dig.
- g) Create Emp and Dept table with following schema.Schema:-Emp(Emp_no as primary key,ENAME,salary,phno);Dept(deptno primary key,empno foreign key,deptname,location);
 - i) Delete the employee record whose emp_no is 3?
 - ii) Display department whose location is Mumbai?
 - iii) Display Department whose location is Pune and deptname is HR?
 - iv) Find out the employee whose second last letter is N?
- h) Explain all DML commands with syntax and ex of each.
- i) Explain all comparison operator with ex?

Name of course coordinator: - Miss. Komal A Jadhav.
Last date of Submission:- 22/08/2024