BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

Unit Test-I (Shift:-I & II)

Programme: - CO/CM

Semester: - III   Course: - Database Management System**(22319)**

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Chapter no:1

1) List any four applications of DBMS. (4M) (COa)
2) State the four database users. (4M) (COa)
3) Define the following. (2M) (COa)
   a) Instance
   b) Schema
4) Explain the four roles of database administrator. (4M) (COa)
5) List and explain different types of attributes(2M)
6) State four advantages of DBMS over file processing system. (4M) (COa)
7) Draw ER diagram for Library Management System. (4M) (COa)
8) Describe strong and weak entity set. (2M) (COa)
9) Explain Data Abstraction. (2M) (COa)
10) Distinguish between Hierarchical and Network Model. (4M) (COa)
11) Difference between DBMS &RDBMS(any three points). (4M) (COa)

Chapter no :2

1) Define normalization. Enlist its type. (4M) (COa)
2) Enlist DDL and DML commands. (2M) (COb)
3) Define the following(2M) (COb)
   a) Primary Key
   b) Foreign Key
4) Explain in brief Client Server Architecture with the example. (4M) (COa)
5) State four Dr. E. F. Codd's rules. (2M) (COa)
6) Explain DDL command with syntax and example. (2M) (COb)

7) State use of '%' and '_' character in Pattern matching string ? (2M) (COb)
8) Describe commit and rollback with syntax. (2M)   (COb)
9) Explain any four integrity constraint's. (4M) (COb)
10) Explain Data Control Language(DCL)commands with example. (4M) (COb)
11) Explain word comparision operator. (4M) (COb)
   i) IN and NOT IN
   ii) BETWEEN and NOT BETWEEN

12) Consider the following database. (4M) (COb)

employee (emp_id,emp_name,emp_city,emp_addr,emp_dept,join_date)

    i) Display the names of employee in capital letters

    ii) Display the emp_id of employee who lives in city pune and Mumbai

    iii) Display the count of employee according deptartment wise

    iv) Display the employee details who belong to dept is '10'.

    v) Display details of employees in descending order emp_id wise.

Chapter no:3

1) Define join? Explain different types of join? (4M) (COb)

2) Explain aggregate function with syntax and example. (4M)   (COb)

3) Solve SQL query for following consider table

   EMP(empno , deptno, ename ,salary, Designation, joiningdate, DOB,city) . (4M) (COb)

        i)   Display employees name and number in an increasing order of salary

        ii) Display employee name and employee number dept wise

        iii) Display total salary of all employee

        iv) Display number of employees dept wise

        v) Display employee name staring with "S" and working in deptno 1002

 4) Solve SQL queries for following. (2M) (COb)

        i) Create table EMP with following attributes using suitable data types

          (Eno, Ename, Deptname, Salary, designation, Joining_Date)

        ii) Display names of employee whose name start with alphabet 'A'

        iii)Display names of employee who joined before '1/1/2000'

        iv)Increase the salary of employees by 20%

5) List any five string function with syntax and example. (2M) (COb)

6) Explain group by, order by,having clause of SQL with example. . (COb)

7) Define and explain View with the syntax and example. (4M) (COa)

8) Solve SQL query for following consider table. (4M) (COb)

   EMP(empno , deptno, ename ,salary, Designation, joiningdate, DOB,city)

        i)   Display age of employees

        ii)   Display average salary of all employee

        iii)   Display name of employee who earned highest salary

        iv)   Display the number of employees deptnowise