

RDBMS QUESTION BANK

CHAPTER 1

1. Define Data Abstraction and its levels.
2. Define Data Independence and what are its types.
3. Explain Overall structure of DBMS.
4. Explain types of Database User.
5. List the functions of Database Administrator.
6. Explain in brief Client Server Architecture with the example.
7. Write the 12 rules (Codd's Law) for fully functional RDBMS.
8. Define Data Warehousing & Data Mining.
9. What is RDBMS & difference between RDBMS & DBMS?
10. Advantages of RDBMS over File Processing System
11. Explain DDL & DML .

CHAPTER 2

12. What is meant by Data Model ? Describe Network Model .
13. What is Relational Model ? Explain Attributes & Domain.
14. Explain the term Primary Key & Candidate Key with example.
15. Explain Foreign Key Constraints with examples.
16. Explain the term Database Schema & Instance.
17. Compare E-R Model with Hierarchical Model.
18. List various symbols used to sketch various diagrams with their meanings and examples.
19. Explain the term Specialization and Generalization.
20. What are the different Data Types of SQL? Explain with example.
21. Draw E-R Diagram of college system. The college keeps the data of Students , Employees , Books.

CHAPTER 3

22. Explain any Two DDL & DML Commands with their Syntax and example.
23. Consider the following structure for EMPLOYEE.
EMP(EMPNO, ENAME, JOB, MGR, JOINDATE, SALARY, COMM, DEPTNO)
Write the SQL Queries for the following.
 - a) Display the list of Employees excluding JOB title as "Salesman".
 - b) Change the Average Salary for each Department.
 - c) Change the name of Employee "RAHUL GOSAVI" to "JIGAR DEV".
 - d) Display Employee Names whose name starts with letter "A".
24. Explain types of Joins

25. RDBMS QUESTION BANK(UNIT TEST II)

26. Chapter 2

1. Consider following relational schema

STUDENT (RNO,Name,DOB,Percentage,DNO)

DEPARTMENT(DNO,DNAME,HEAD)

Write relational algebra expressions:

a) Find students name & course from computer department

b) Get students name who has percentage greater than 70.

2. Explain multilevel dependencies with example

3. Explain referential integrity constraint and on delete cascade with suitable example

4. what is functional dependency? Give suitable example.

5. What is select and project operator in relational algebra? Give one example.

27. Chapter 3

1. Explain any four aggregate functions with example

2. Draw and explain state diagram of transaction

3. What is transaction? Explain ACID properties of transaction

4. Describe grant and revoke commands with example.

5. Describe DCL command with example.

6. Explain string function with example.

7. Explain set operator with example.

8. Explain concurrent execution of transaction.

28. Chapter 4

1. What are views? Explain with syntax and example

2. What are sequences? Why it is used? Create sequence for "STUDENT" table.

3. What is index? List its types.

4. What are snapshots? Give its uses?How to create snapshots?

5. What are synonyms? How to create synonyms?

6. Consider following schema

ACCOUNT_HOLDER(account_no, name, account_type, PAN_Number, balance)

Give view on ACCOUNT_HOLDER having attributes(account_no, name, PAN_Number)

when balance is greater than 50000.

29. Chapter 5

1. Explain while loop in PL/SQL with example

2. Write PL/SQL program to display factorial of any number.

3. Explain block structure of PL/SQL.

4. Explain predefined exceptions and user defined exceptions

5. Explain function in PL/SQL with suitable example

6. Explain procedure in PL/SQL with suitable example

7. What are triggers? How to create triggers?

8. What is cursor? Explain its types?

