

Question Bank

1. What is normalization? Explain in details different forms with suitable examples.
2. What is concurrency control? How is it implemented in DBMS? Explain.
3. Explain various recovery techniques transaction in details.
4. Discuss the structure of data warehouse using a figure.
5. What is the difference between local and global warehouse?
6. Explain in detail features of Object oriented database.
7. Explain the architecture of DBMS in detail.
8. Explain the difference between a weak and a strong entity set.
9. Explain the difference between database systems and file based system.
10. Define foreign key. Explain its significance.
11. With suitable examples, explain difference between Natural join, semi join and Cartesian product operation in relational algebra.
12. What is normalization? What is its need?
13. Define and discuss 3NF and BCNF using suitable examples.
14. Does the data dictionary have any role to play in query processing?
15. Describe with the help of an SQL query requiring join operation, Selection and projection.
16. What do you mean by query processing?
17. Explain various steps of query processing with the help of a diagram.
18. Explain how the recovery in Centralized DBMS is performed in detail.
19. Why is recovery needed in database? How log based recovery is different from check point based recovery? Explain.
20. How is object oriented database different from relational database?
21. What do you mean by DDBMS? What are its advantages and disadvantages?
22. Explain various data replications techniques of DDBMS by giving their merits and demerits.
23. What is the difference between database and data warehouse. Explain with example.
24. Explain various components of data warehouse in detail.

25. Explain features of enhanced SQL of object relational database with the help of examples.
26. Explain multi version concurrency control technique.
27. How timestamp based concurrency control is different from locking schemes? Explain.
28. What are the characteristics of data warehouse?
29. Difference between the reconciled data layer and derived data layer.
30. Explain the options for distributing a database.
31. What are the advantages of object relational approach?
32. Explain the difference between DBMS and DDBMS.
33. What do you mean by disaster recovery?
34. How can you create the instances of object? Explain with examples.
35. Explain following in briefly:
 - a) Query's evaluation
 - b) Query improvement