

List of Important Question of Advance DBMS

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 object oriented database is 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 multiversion 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

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b) Query improvement (6E) 3rd Sem. Exam. – January, 2012

Advanced DBMS (MTCE-703A)

Time: 3 Hours

Max. Marks:100

NOTE: Attempt any FIVE questions.

- 1.a) With suitable example, explain difference between Natural Join, Semi Join and Cartesian product operations in relational algebra. 08
- b) What is Normalization? What is its need? Define & discuss 3NF and BCNF using suitable examples. 12
- 2.a) Does the data dictionary have any role to play in query processing? Describe with the help of an SQL query requiring Join operation, Selection and Projection. 10
- b) What do you mean by query processing? Explain various steps of query processing with the help of a diagram. 10
- 3.a) Explain how the recovery in Centralized DBMS is performed in detail. 10
- b) Why is recovery needed in databases? How log based recovery is different from check point based recovery? Explain. 10
- 4.a) What do you mean by object oriented database? What are its features? How is it different from relational databases? 12
- b) Explain object query language in detail. 08
- 5.a) What do you mean by DDBMS? What are its advantages & disadvantages? 10
- b) Explain various data replication techniques of DDBMS by giving their merits & demerits. 10
- 6.a) What is difference between database and dataware house? Explain by example. 10
- b) Explain various components of data warehouse in detail. 10
- 7.a) Compare & contrast object relational databases and object oriented databases. 10
- b) Explain features of enhanced SQL of object relational databases with help of examples. 10
8. What is concurrency control? Explain multiversion concurrency control technique. How timestamp based concurrency control is different from locking schemes? Explain. 20

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