

SUBJECT : Database Management Systems

Question Bank

1. What is DBMS and what's the goal of it?
2. What are the advantages of DBMS?
3. What are the Disadvantages of DBMS?
4. What are the disadvantages of File Systems?
5. Define Entity, Entity Set, and extensions of entity set. Give one example for each.
6. Define and give examples to illustrate the four types of attributes in database.
7. Define relationship and participation.
8. Define mapping cardinality or cardinality ratio.
9. Explain the four types of mapping cardinality with example.
10. Define E-R diagram.
11. Define weak Entity set. Give an example and explain why it is weak entity set.
12. Define discriminator or partial key of a weak entity set. Give example.
13. Explain Referential Integrity.
14. Define Instances and schemas.
15. Define and explain the two types of Data Independence.
16. Define the type types of DML.
17. List out the functions of DBA.
18. What is the need for DBA?
19. Explain DML pre-compiler.
20. Define file manager and buffer manager.
21. Define Data Dictionary.

22. State the various processes of database.
23. What are the characteristics of database?
24. Define-metadata
25. Define data abstraction
26. What is data model?
27. What are the categories of data model?
28. Define entity, attributes and relationships
29. Define database state or snapshot?
30. What are the types of attributes in the ER model?
31. What are composite and simple attributes?
32. What are stored and derived attribute?
33. How are complex attributes represented?
34. Define value sets of attributes.
35. Define degree of relationship type
36. What is a role name?
37. What are the types of relationship constraints?
38. Define participation constraint.
39. What are the types of participation constraints?
40. Define a partial key.
41. Define specialization.
42. Define relational database schema
43. Define relational database state.
44. List any eight applications of DBMS.
45. Give the levels of data abstraction?
46. Define the terms 1) physical schema 2) logical schema.

47. What is conceptual schema?
48. What is storage manager?
49. What are the components of storage manager?
50. What is the purpose of storage manager?
51. List the data structures implemented by the storage manager.
52. What is a data dictionary?
53. What is an entity relationship model?
54. Define the terms i) Entity set ii) Relationship set
55. Define single valued and multivalued attributes.
56. Define null values.
57. Define the terms i) Key attribute ii) Value set
58. Define weak and strong entity sets?
59. What does the cardinality ratio specify?
60. Define the terms i) DDL ii) DML
61. List the disadvantages of relational database system.
62. Explain the architecture of DBMS with a neat block diagram
63. Explain ER model in detail
64. Draw an ER diagram for a banking enterprise
65. Explain: Data models, Schemas, and Instances
66. Write about Entity types, Entity sets, Attributes, and keys.
67. Write short notes on relational model
68. Define tuple and attribute
69. Define the term relation.
70. Define tuple variable
71. Define relation schema.

72. Define degree of relation.