Advanced database important questions

Unit 1:

1.Explain the process to convert EER to relational model.
2.Describe the Extended E-R model in details.
3.Differentiate between specialization and generalization.
4.Discuss the differnet constraints of specialization and generalization.
5.What is file structure in DBMS? Explain different types of file organization.
6. What is Indexing? explain its types.
7. Discuss the Hashing concept in DBMS.
8. Differentiate the Hashing and Indexing.
9. Differentiate between static and dynamic hashing.
10. Explain the concept of bucket overflow in hashing.
11.Discuss any five advance sql in DBMS.

Unit 2

1. Discuss the object-oriented database approach with its characteristics.
2. Write down the advantages and disadvantages of OODBMS.
3.Explain the different database extensions to SQL.
4.Discuss about ODMG object model.
5.Differentiate the objects and literals in ODMG.
6.Differentiate the persistent and transient objects.
7. Discuss Object database conceptual model and differentiate with RDB.
8.Explain the mapping an EER to ODB schema rules.
9. Explain the Object Query language in detail.
10. Discuss the language binding in ODMG Standard.
11. Differentiate between OODBMS and RDBMS.

Unit 3

1. What is Query Processing? explain its steps.
2. How can you measure the cost of query?
3.What is query optimization? Discuss its optimization strategies.
4.Differentiate heuristic and semantic based optimization.
5.Differentiate cost and semantic based optimization.
6. Differentiate cost and heuristic based optimization.
7.How can you express the query to optimized/tree transformation.
8. How can you choose the evaluation plans.

Unit 4

1.Discuss the distributed database concepts with advantages and disadvantages.
2.Discuss the data fragmentation, Replication and allocation techniques for distributed database design.
3. Explain the types of distributed database systems.
4.Explain the architectures of distributed database.
5. Describe nosql.Differentiate Nosql with RDBMS.
6.Discuss different types of Nosql databases.
7.Discribe the CAP theorem.

8.Discuss Big data with its characteristics.
8.Write down the pros and cons of big data.
9.Discribe Map Reduce with its Phases.
10.List out the benefits of mapreduce.
11. Discribe hadoop with its advantages.

Unit 5

1. Discribe the architecture of Active database.
2.Discuss different types of triggers.
3.Differentiate row level and statement triggers.
4. Discribe temproral database with its types.
5.Discuss Spatial database with its advantages.
6.Describe multimedia database concept with its applications.
7.Discuss the deductive database with its importance.
8.Differentiate Information retrieval and data retrieval
9. Differentiate between spatial and multimedia databases.
10. Differentiate structure and unstructured data.

Wish you the best

-Purusottam Adhikari