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# For Questions, Notes, Syllabus & Results

# CS8492 Database Management Systems

## **Important 13mark Questions**

#### Unit I

- 1. Briefly explain about Database system architecture.
- 2. Explain first normal form, second normal form, third normal form and BCNF with an example.
- 3. What are the advantages of having a centralized control of data? Illustrate your answer with suitable example.
- 4. Distinguish between lossless-join decomposition and dependency preserving decomposition.

#### Unit II

- 1. Briefly explain about Query processing.
- 2. Explain Query Optimization with an example.
- 3. State and explain the command DDL, DML, DCL with suitable example.
- 4. Explain the catalog information for cost estimation for selection and sorting operation in database.

### <u>Unit III</u>

- 1. What is concurrency control? How is it implemented in DBMS? Illustrate with a suitable example.
- 2. Briefly explain about Two phase commit.
- 3. Discuss the violations caused by each of the following: dirty read, non repeatable read and phantoms with suitable example.
- 4. What is deadlock? How does it occur? How transactions be written to
  - (i) Avoid deadlock
  - (ii) Guarantee correct execution.

#### **Unit IV**

- 1. What is RAID? List the different levels in RAID technology and explain its features.
- 2. Briefly explain about B+ tree index file with example.
- 3. Explain the architecture of a distributed database system.
- 4. Explain the distinction between static and dynamic hashing? Discuss the relative merits of each technique in database applications.

#### Unit V

- 1. Describe the various component of data warehouse and explain the different data model used to store data with example.
- 2. Explain types of database security and database security issues.
- 3. Discuss Apriori algorithm for mining association rules with an example.
- 4. Describe the mobile database recovery schemes.