

23 Lecture - CS403

Important Mcqs

1. What is a physical record?

- a) The conceptual model of a database
- b) The actual data stored in a database on disk
- c) The logical model of a database
- d) The metadata associated with a database

Answer: b) The actual data stored in a database on disk

What is denormalization?

- a) The process of breaking normal form rules in a database to improve performance
- b) The process of improving the normalization of a database
- c) The process of removing redundant data from a database
- d) The process of optimizing database queries

Answer: a) The process of breaking normal form rules in a database to improve performance

What is the purpose of denormalization?

- a) To reduce the complexity of database queries
- b) To improve database performance
- c) To simplify the database design
- d) To increase data consistency in a database

Answer: b) To improve database performance

What are the risks of denormalization?

- a) Data redundancy and inconsistency
- b) Database performance degradation
- c) Increased query complexity
- d) All of the above

Answer: d) All of the above

What is data redundancy?

- a) The process of breaking normal form rules in a database to improve performance
- b) The duplication of data in a database
- c) The process of normalizing a database
- d) The metadata associated with a database

Answer: b) The duplication of data in a database

Which normal form does denormalization violate?

- a) First Normal Form
- b) Second Normal Form
- c) Third Normal Form
- d) Fourth Normal Form

Answer: c) Third Normal Form

What is the primary goal of normalization?

- a) To eliminate data redundancy

- b) To improve database performance
- c) To simplify the database design
- d) To increase data inconsistency in a database

Answer: a) To eliminate data redundancy

Which of the following is a disadvantage of denormalization?

- a) Reduced query complexity
- b) Increased data redundancy
- c) Improved database performance
- d) Simplified database design

Answer: b) Increased data redundancy

What is the consequence of data inconsistency?

- a) Increased query performance
- b) Improved data quality
- c) Increased risk of errors and inaccuracies
- d) Simplified database design

Answer: c) Increased risk of errors and inaccuracies

Which of the following is an example of denormalization?

- a) Combining two tables into one
- b) Normalizing a database
- c) Adding a new column to a table
- d) Creating a new index on a table

Answer: a) Combining two tables into one