

CS409 CURRENT SOLVED SUBJECTIVE MIDTERM PAPERS

Introduction to Database Administration

Provided by **VU Answer**

Q1) Data dictionary characteristics

Answer:

A data dictionary is a centralized repository of information about data, including its meaning, relationships, origin, and usage.

Characteristics

1. Stores metadata about database objects.
2. Helps maintain data integrity by ensuring consistency across the database.
3. Acts as a reference guide for database users and administrators.

Q2) DBMS language and their 2 examples

Answer:

Types of DBMS Languages

Data Definition Language (DDL): Used to define database structures.

Examples: CREATE, ALTER

Data Manipulation Language (DML): Used to manage data within the structures.

Examples: SELECT, INSERT

Q3) Explain Forcing log switch

Answer:

In databases, a log switch forces the system to move to a new log file, allowing the current log file to be archived or saved. This is useful for ensuring data is securely logged and available for recovery.

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Q4) Define surrogated key and it's characteristics

Answer:

Surrogate Key is a unique identifier for a database record that is not derived from application data.

Characteristics

1. Artificial Key
2. Unique
3. Non-Meaningful

Q5) Foreign key & its example

Answer:

Foreign Key is a field (or group of fields) in a table that uniquely identifies a row in another table, creating a relationship between the two tables.

Example

In an Orders table, the CustomerID that references the CustomerID in a Customers table.

Q6) Primary key define and 3 characteristics

Answer:

Primary Key is a field (or combination of fields) that uniquely identifies each record in a table.

Characteristics

1. Unique
2. Not NULL
3. Immutable

Q7) Define Data or information

Answer:

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Data: Raw, unprocessed facts and figures without context.

Information: Processed data that is meaningful and useful for decision-making.

Q8) Define composite key

Answer:

Composite Key is a key that consists of two or more columns used together to uniquely identify a row in a table.

Q9) Levels of ansi spark

Answer:

- External Level
- Conceptual Level
- Internal Level

Q10) Define candidate key

Answer:

Candidate Key is a field, or combination of fields, that can uniquely identify a record in a table. Each table can have multiple candidate keys, but only one can be chosen as the primary key.

Q11) Define referential integrity

Answer:

Referential integrity ensures relationships between tables remain consistent, meaning any foreign key value must match a primary key value in the related table.

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