

# Introduction to Database Modelling Concepts

Information Technology · Answer Key · 15 Questions

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## 1. What is considered raw data without context?

- A) A processed report
- B) 1, John, 25, USA**
- C) A structured table
- D) A database schema

## 2. Which of the following is a characteristic of good data?

- A) Subjectivity
- B) Redundancy
- C) Accuracy**
- D) Complexity

## 3. What does a database schema define?

- A) The hardware specifications
- B) The structure and organization of data**
- C) The user password policy
- D) The network speed

## 4. Which diagram is used to represent entities and their relationships graphically?

- A) Flowchart
- B) ER Diagram**
- C) Venn Diagram
- D) Pie Chart

## 5. What is a primary key in a database?

- A) A non-unique attribute
- B) A foreign link to another table
- C) A unique identifier for an entity**
- D) A type of database index

## 6. Which of the following is an example of an M:M relationship?

- A) One student to one ID
- B) One employee to one department
- C) Many students to many courses**
- D) One customer to one order

**7. What is the primary goal of database normalization?**

- A) To increase data storage
- B) To reduce redundancy and anomalies**
- C) To change data types
- D) To delete all data

**8. Which anomaly occurs when adding new data leads to issues due to missing values?**

- A) Insertion Anomaly**
- B) Update Anomaly
- C) Deletion Anomaly
- D) Retrieval Anomaly

**9. What is the purpose of hashing in databases?**

- A) To encrypt user passwords
- B) To improve data retrieval efficiency**
- C) To create new tables
- D) To delete duplicates

**10. Which type of index is built on the primary key of a table?**

- A) Secondary Index
- B) Multilevel Index
- C) Primary Index**
- D) Heap Index

**11. Which database type stores data in a non-tabular form?**

- A) Relational
- B) NoSQL**
- C) SQL
- D) Schema-based

**12. What does the CRUD acronym stand for in DBMS operations?**

- A) Create, Read, Update, Delete**
- B) Calculate, Report, Understand, Distribute
- C) Compile, Run, Undo, Debug
- D) Construct, Retrieve, Use, Delete

**13. What is a collection of similar entities called?**

- A) Entity Set**
- B) Schema
- C) Hash
- D) Index

14. Which normal form requires the elimination of transitive dependencies?

- A) 1NF
- B) 2NF
- C) 3NF**
- D) BCNF

15. What is the function of a foreign key?

- A) To uniquely identify a row
- B) To link entities together**
- C) To sort the database
- D) To store image data