

Database Design and ER Modeling Fundamentals

Computer Science · Answer Key · 10 Questions

1. What is a primary benefit of using a database?

- A) Increased data redundancy
- B) Reduced data accuracy
- C) Efficient data management**
- D) Increased difficulty to delete data

2. What is a primary key used for in a database table?

- A) To identify a record**
- B) To store derived data
- C) To create a relationship
- D) To describe an attribute

3. What is a foreign key?

- A) A key that is always empty
- B) A field that links to a primary key in another table**
- C) A type of entity
- D) A derived attribute

4. Which of the following is considered an entity?

- A) A phone number
- B) A person**
- C) A salary
- D) A year

5. What is a simple attribute?

- A) An attribute that cannot be divided**
- B) An attribute stored as a calculation
- C) An attribute with multiple parts
- D) An attribute of a child entity

6. What is a derived attribute?

- A) An attribute entered by a user
- B) An attribute calculated from other data**
- C) An attribute that is a primary key
- D) An attribute that describes a relationship

7. What does the degree of a relationship represent?

A) The number of entities involved

- B) The name of the table
- C) The type of primary key
- D) The number of attributes

8. Which term describes the number of entities associated with another entity?

A) Degree

B) Cardinality

- C) Attribute
- D) Entity type

9. What is an ER diagram used for?

A) Designing the database structure

- B) Storing user passwords
- C) Calculating complex math
- D) Managing server hardware

10. What is a composite attribute?

A) An attribute that is already simple

B) An attribute that can be divided into smaller parts

- C) An attribute that is always null
- D) An attribute that cannot be stored