

# Database Design and Normalization

Computer Science · Answer Key · 10 Questions

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**1. What are the three main types of dependencies in database normalization?**

- A) Full, Partial, Transitive**
- B) Primary, Foreign, Unique
- C) Simple, Complex, Compound
- D) Static, Dynamic, Logical

**2. Which Normal Form (NF) is achieved when a table has no partial functional dependencies?**

- A) First Normal Form
- B) Second Normal Form**
- C) Third Normal Form
- D) Fourth Normal Form

**3. What is a Primary Key used for in a database table?**

- A) To define the language
- B) To uniquely identify each record**
- C) To store multiple values
- D) To delete the database

**4. What does DDL stand for in the context of database languages?**

- A) Data Design Logic
- B) Database Definition Layer
- C) Data Definition Language**
- D) Direct Data Link

**5. Which SQL command is used to create a new database table?**

- A) MAKE TABLE
- B) ADD TABLE
- C) BUILD TABLE
- D) CREATE TABLE**

**6. What is the purpose of a Foreign Key?**

- A) To link two tables together**
- B) To calculate totals
- C) To delete columns
- D) To encrypt data

**7. Transitive dependency occurs when a non-key attribute depends on another...**

- A) Primary key
- B) Non-key attribute**
- C) Foreign key
- D) Null value

**8. What is a domain in database design?**

- A) The physical server location
- B) The set of valid values for an attribute**
- C) The name of the database
- D) The software used to run SQL

**9. Normalization is used to reduce which of the following?**

- A) Data redundancy**
- B) Table size
- C) Query speed
- D) Disk space

**10. What does the CHECK constraint do in a database?**

- A) Deletes old data
- B) Enforces a condition on column values**
- C) Updates the table schema
- D) Renames a table