

Unit 5

Fill in the blanks:

1. A _____ dependency is a constraint between two attributes in a database.
2. A functional dependency of the form $A \rightarrow A$ is called a _____ dependency.
3. Armstrong's axioms include Reflexivity, Augmentation, and _____.
4. The closure of a set of functional dependencies is the set of all functional dependencies that can be _____ from the given set.

Short Questions

1. What is a trivial functional dependency?
2. What is a candidate key?
3. What is a lossless decomposition?
4. How does BCNF differ from 3NF?

Questions

1. What is functional dependency? Explain all its types with example.
2. What is normalization in DBMS? Also discuss the need of normalization. Explain 2NF,3NF, BCNF with suitable example.
3. What is the need for Normalization? Explain 1NF,2NF and BCNF.
4. What is closure of a set of attributes? Explain how to find closure of a set of attributes.
5. What is meant by normalization? Write its need. List and discuss database anomaly during database design.
6. List and explain Armstrong's axioms
7. What is an anomaly in database design? How it can be solved.