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This set of Database Multiple Choice Questions & Answers (MCQs) focuses on "Normal Forms".
1. In the ______ normal form, a composite attribute is converted to individual attributes.
a) First
b) Second
c) Third
d) Fourth
View Answer
Answer: a
Explanation: The first normal form is used to eliminate the duplicate information.
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- 2. A table on the many side of a one to many or many to many relationship must:
- a) Be in Second Normal Form (2NF)
- b) Be in Third Normal Form (3NF)
- c) Have a single attribute key
- d) Have a composite key

View Answer

Answer: d

Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key.

- 3. Tables in second normal form (2NF):
- a) Eliminate all hidden dependencies
- b) Eliminate the possibility of a insertion anomalies
- c) Have a composite key
- d) Have all non key fields depend on the whole primary key

View Answer

Answer: a

Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key.

- 4. Which-one of the following statements about normal forms is FALSE?
- a) BCNF is stricter than 3 NF
- b) Lossless, dependency -preserving decomposition into 3 NF is always possible
- c) Loss less, dependency preserving decomposition into BCNF is always possible
- d) Any relation with two attributes is BCNF

View Answer

Answer: c

Explanation: We say that the decomposition is a lossless decomposition if there is no loss of information by replacing r (R) with two relation schemas r1(R1) and r2(R2).

- 5. Functional Dependencies are the types of constraints that are based on______
- a) Key
- b) Key revisited
- c) Superset key
- d) None of the mentioned

View Answer

Answer: a

Explanation: Key is the basic element needed for the constraints.

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- 6. Which is a bottom-up approach to database design that design by examining the relationship between attributes:
- a) Functional dependency
- b) Database modeling
- c) Normalization
- d) Decomposition

View Answer

Answer: c

Explanation: Normalisation is the process of removing redundancy and unwanted data.

- 7. Which forms simplifies and ensures that there are minimal data aggregates and repetitive groups:
- a) 1NF
- b) 2NF
- c) 3NF
- d) All of the mentioned

View Answer

Answer: c

Explanation: The first normal form is used to eliminate the duplicate information.

- 8. Which forms has a relation that possesses data about an individual entity:
- a) 2NF
- b) 3NF
- c) 4NF
- d) 5NF

View Answer

Answer: c

Explanation: A Table is in 4NF if and only if, for every one of its non-trivial multivalued dependencies X \twoheadrightarrow Y, X is a superkey—that is, X is either a candidate key or a superset thereof.

- 9. Which forms are based on the concept of functional dependency:
- a) 1NF
- b) 2NF
- c) 3NF
- d) 4NF

View Answer

Answer: c

Explanation: The table is in 3NF if every non-prime attribute of R is non-transitively dependent (i.e. directly dependent) on every superkey of R.

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10.

Empdt1(empcode, name, street, city, state, pincode).

For any pincode, there is only one city and state. Also, for given street, city and state, there is just one pincode. In normalization terms, empdt1 is a relation in

- a) 1 NF only
- b) 2 NF and hence also in 1 NF
- c) 3NF and hence also in 2NF and 1NF
- d) BCNF and hence also in 3NF, 2NF and 1NF

View Answer

Answer: b

Explanation: The relation in second normal form is also in first normal form and no partial dependencies on any column in primary key.

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