# Database Questions and Answers – Multivalued Dependencies

This set of Database online quiz focuses on "Using Multivalued Dependencies".

1. The normal form which satisfies multivalued dependencies and which is in BCNF is
a) 4 NF
b) 3 NF
c) 2 NF
d) All of the mentioned

View Answer

Answer: a
Explanation: Fourth normal form is more restrictive than BCNF.

2. Which of the following is a tuple-generating dependencies?
a) Functional dependency
b) Equality-generating dependencies
c) Multivalued dependencies
d) Non-functional dependency

View Answer

Answer: c
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a certain form be present in the relation.

3. The main task carried out in the _____ is to remove repeating attributes to separate tables.
a) First Normal Form
b) Second Normal Form
c) Third Normal Form
d) Fourth Normal Form

View Answer

Answer: a
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a certain form be present in the relation.

4. Which of the normal form is based on multivalued dependencies?
a) First
b) Second
c) Third
d) Fourth

View Answer

Answer: d
Explanation: Multivalued dependencies, do not rule out the existence of certain tuples. Instead, they require that other tuples of a certain form be present in the relation.

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5. 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.

6. If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from one of the following sources.
a) A many-to-many relationship set
b) A multivalued attribute of an entity set
c) A one-to-many relationship set
d) Both A many-to-many relationship set and A multivalued attribute of an entity set

View Answer

Answer: d

Explanation: For a many-to-many relationship set each related entity set has its own schema and there is an additional schema for the relationship set. For a multivalued attribute, a separate schema is created consisting of that attribute and the primary key of the entity set.

7. Which of the following has each related entity set has its own schema and there is an additional schema for the relationship set?
a) A many-to-many relationship set
b) A multivalued attribute of an entity set
c) A one-to-many relationship set
d) None of the mentioned

View Answer

Answer: a

Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

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8. In which of the following, a separate schema is created consisting of that attribute and the primary key of the entity set.
a) A many-to-many relationship set
b) A multivalued attribute of an entity set
c) A one-to-many relationship set
d) None of the mentioned

View Answer

Answer: b
Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

9. Fifth Normal form is concerned with
a) Functional dependency
b) Multivalued dependency
c) Join dependency
d) Domain-key

View Answer

Answer: c
Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

10. In 2NF
a) No functional dependencies (FDs) exist
b) No multivalued dependencies (MVDs) exist
c) No partial FDs exist
d) No partial MVDs exist

View Answer

Answer: c
Explanation: If a multivalued dependency holds and is not implied by the corresponding functional dependency, it usually arises from this source.

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