

CS403P graded quiz3

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1: Consider the following functional dependency: $A \rightarrow B$ In above functional dependency, attribute B is _____ on A. Select the correct option

Terminated

Dependent

Projected

Reflected

2: The only time we are concerned about 2nd Normal Form is when _____. Select the correct option

Primary key consists of single attribute

Primary key is composite

Primary key contains redundant values

Primary key contains non-unique values

3: _____ is a step by step process to reduce data redundancy and improve data integrity to build a more efficient and accurate database design. Select the correct option

Classification

Integration

Normalization

Modeling

4: If a relation CLASS (crlD, stld, stName, fld, room, grade) has following Functional Dependencies: $crlD, stld \rightarrow stName$, $fld, room, grade$ which of the following functional dependency is in above functional dependency? Select the correct option

Sequential dependency

Partial dependency

Reflexive dependency

Transitive dependency

5: A relation is in third normal form if _____. Select the correct option

It has a partial dependency

It has a transitive dependency

It has multivalued attributes

It is already in second normal form

6: Consider the following relation: STD(stId, stName, stAdr, prName, prCrds) stId → stName, stAdr, prName, prCrds prName → prCrds Which of the following dependency exist in above relation? Select the correct option

Terminal dependency

Transitive dependency

Composite dependency

Reflexive dependency

7: A table is in third normal form if it is in second normal form and there is no _____. Select the correct option

Partial dependency

Full functional dependency

Consistency

Transitive dependency

8: 2nd Normal Form is based on which of the following dependency? Select the correct option

Transitive dependency

Partial dependency

Full functional dependency

Reflexive dependency

9: Suppose $A \rightarrow B$, then which of the following is valid Functional dependency for augmentation? Select the correct option

$AC \rightarrow BC$

$AD \rightarrow B$

$A \rightarrow C$

$AB \rightarrow C$

10: In functional dependency, if one attribute is determinant of all other attributes of the relation then the relation has at least _____. Select the correct option

Random key

Super key

Secondary key

Relational key

11: The anomalies caused by transitive dependency in a relation are removed by _____. Select the correct option

Changing primary key

Reducing number of columns

Breaking down the relation

Reducing number of rows

12: A relation is in second normal form if and only if _____ and all the non key attributes are fully functionally dependent on the key. Select the correct option

It has multivalued attributes

It is not in first normal form

It is in first normal form

It has inconsistent data

13: A transitive dependency occurs when _____. Select the correct option

Part of the key is dependent on key attribute

Primary key attribute is dependent on non-key attribute

Non-key attribute is dependent on another non-key attribute

Non-key attribute is not dependent on another non-key attribute

THANK YOU