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# DBMS Normalization MCQs

**DBMS Normalization MCQs:** This section contains multiple-choice questions and answers on normalization in DBMS.

Submitted by [Anushree Goswami](#) on April 01, 2022

**1. A \_\_\_ is normalized after it has been organized.**

- A. Table
- B. Database
- C. Row
- D. Column

**Answer:** B) Database

**Explanation:**

A database is normalized after it has been organized.

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**2. By normalizing relations or sets of relations, one minimizes \_\_\_.**

- A. Data
- B. Fields
- C. Redundancy
- D. Database

**Answer:** C) Redundancy

**Explanation:**

By normalizing relations or sets of relations, one minimizes redundancy.

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**3. In addition to removing undesirable characteristics, normalization also eliminates \_\_\_ anomalies.**

- A. Insert
- B. Update
- C. Delete
- D. All of the above

**Answer:** D) All of the above

**Explanation:**

In addition to removing undesirable characteristics, normalization also eliminates insert, update, and delete anomalies.

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**4. A common approach to normalization is to \_\_\_ the larger table into smaller tables and link them together by using relationships.**

- A. Add
- B. Subtract
- C. Multiply
- D. Divide

**Answer:** D) Divide

**Explanation:**

A common approach to normalization is to divide the larger table into smaller tables and link them together by using relationships.

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**5. Redundancy is reduced in a database table by using the \_\_\_ form.**

- ✓ A. Abnormal

**Answer:** B) Normal

**Explanation:**

Redundancy is reduced in a database table by using the normal form.

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**6. In practical applications, how many types of Normal Forms are there?**

- A. 3
- B. 4
- C. 5
- D. 6

**Answer:** B) 4

**Explanation:**

There are 4 types of normal forms.

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- C. 3NF
- D. 10NF

**Answer:** D) 10NF

**Explanation:**

10NF is not a type of Normal Form.

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**8. Which of the following is a type of Normal Form?**

- A. ACNF
- B. BCNF
- C. CCNF
- D. DCNF

**Answer:** B) BCNF

**Explanation:**

BCNF is a type of Normal Form.

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**9. When a relation contains an atomic value, it is a \_\_\_ relation.**

- A. 1NF
- B. 2NF
- C. 3NF
- D. BCNF

**Answer:** A) 1NF

**Explanation:**

When a relation contains an atomic value, it is a 1NF relation.

**10. 2NF relations are those that are in 1NF with all the attribute types dependent on the \_\_\_ key.**

- A. Primary
- B. Foreign
- C. Composite
- D. Alternate

**Answer:** A) Primary

**Explanation:**

2NF relations are those that are in 1NF with all the attribute types dependent on the primary key.

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**11. When a relation is in 2NF and there is \_\_\_, it is in 3NF.**

- A. Transition Dependency
- B. No Transition Dependency
- C. Relational Dependency
- ✓ D. No Relational Dependency

When a relation is in 2NF and there is no transition dependency, it is in 3NF.

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**12. A relation is in \_\_\_ if it is in Boyce Codd normal form and does not have any multivalued dependencies.**

- A. 1NF
- B. 2NF
- C. 3NF
- D. 4NF

**Answer:** D) 4NF

**Explanation:**

A relation is in 4NF if it is in Boyce Codd normal form and does not have any multivalued dependencies.

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**13. If a relation has a 4NF and no join dependency, and when it joins, it should be \_\_\_, it is considered 5NF.**

- A. Lossful
- B. Lesser
- C. Lossless
- D. Full

**Answer:** C) Lossless

**Explanation:**

If a relation has a 4NF and no join dependency, and when it joins, it should be lossless, it is considered 5NF.

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- A. If a relation contains an atomic value, it will be 1NF.
- B. A table attribute cannot contain more than one value, according to this rule.
- C. A single-valued attribute can only be stored in it.
- D. All of the above

**Answer:** D) All of the above

**Explanation:**

In case of First Normal Form (1NF) -

- a. If a relation contains an atomic value, it will be 1NF.
- b. A table attribute cannot contain more than one value, according to this rule.
- c. A single-valued attribute can only be stored in it.

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**15. Neither multivalued nor composite attributes, nor their combinations, may be used in the \_\_\_ normal form.**

- A. First
- B. Second
- C. Third
- D. fourth

**Answer:** A) First

**Explanation:**

Neither multivalued nor composite attributes, nor their combinations, may be used in the first normal form.

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**16. What is TRUE about the Second Normal Form (2NF)?**

- A. Relational must belong to 1NF in the 2NF.
- B. All attributes other than the primary key are fully functional in the second normal form
- C. Both A and B
- D. None of the above

**Answer:** C) Both A and B

**Explanation:**

In case of Second Normal Form (2NF) -

- a. Relational must belong to 1NF in the 2NF.
- b. All attributes other than the primary key are fully functional in the second normal form

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**17. What is TRUE about the Third Normal Form (3NF)?**

- A. When a relation is in 2NF and does not contain transitive partial dependencies, it will be in 3NF.
- B. Data duplication is reduced by using 3NF.
- C. It helps maintain the integrity of the data.
- D. All of the above

**Answer:** D) All of the above

**Explanation:**

In case of Third Normal Form (3NF) -



- b. Data duplication is reduced by using 3NF.
- c. It helps maintain the integrity of the data.

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**18. Non-prime attributes cannot be transitively dependent, so the relation must have the \_\_\_ normal form.**

- A. First
- B. Second
- C. Third
- D. Fourth

**Answer:** C) Third

**Explanation:**

Non-prime attributes cannot be transitively dependent, so the relation must have the third normal form.

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**19. There needs to be which of the following conditions for each nontrivial dependency of function X on function Y for a relation to be in third normal form.**

- A. A super key is X.
- B. Every element of Y is a part of some candidate key, i.e, Y is a prime attribute.
- C. Either A or B
- D. None of the above

**Answer:** C) Either A or B

**Explanation:**

There needs to be at least one of the following conditions for each nontrivial dependency of function X on function Y for a relation to be in third normal form.



[Discuss this Question](#)**20. What is TRUE about BCNF?**

- A. The advanced version of 3NF is BCNF.
- B. BCNF is stricter than 3NF.
- C. The super key is X for any functional dependency of  $X \rightarrow Y$  in the table.
- D. All of the above

**Answer:** D) All of the above

**Explanation:**

In case of BCNF -

- a. The advanced version of 3NF is BCNF.
- b. BCNF is stricter than 3NF.
- c. The super key is X for any functional dependency of  $X \rightarrow Y$  in the table.

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**21. A relation is in \_\_\_ if it is in Boyce Codd normal form and does not have any**  
multivalued dependencies

C. 3NF

D. 4NF

**Answer:** D) 4NF

**Explanation:**

A relation is in 4NF if it is in Boyce Codd normal form and does not have any multivalued dependencies.

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**22. If more than one value of B is present for a single value of A in a dependency  $A \twoheadrightarrow B$ , then the relationship is \_\_\_\_.**

A. Single

B. Multi-valued

C. Both a and b

D. None of the above

**Answer:** B) Multi-valued

**Explanation:**

If more than one value of B is present for a single value of A in a dependency  $A \twoheadrightarrow B$ , then the relationship is multi-valued.

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**23. What is TRUE about 5NF?**

A. A relation is in 5NF if it is in 4NF, does not contain any join dependencies, and has lossless joining.

B. In order to avoid redundancy, 5NF ensures that the tables are broken up in as many ways as possible.

C. Project-join normal form (5NF) is sometimes referred to as Project-join NF.

✓ D. All of the above

**Explanation:**

In case of 5NF -

- a. A relation is in 5NF if it is in 4NF, does not contain any join dependencies, and has lossless joining.
- b. In order to avoid redundancy, 5NF ensures that the tables are broken up in as many ways as possible.
- c. Project-join normal form (5NF) is sometimes referred to as Project-join NF.

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