

Question 1

Answer saved

Marked out of 1.00

Flag question

The relation R(ABCD) has following FDs:

(A → B ; B → A ; A → D ; D → B)

☐ a. R is not in 2NF

☐ b. None of the others

☐ c. R is not in 3NF

☒ d. R is in 3NF

Clear my choice

Question 2

Answer saved

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Flag question

The relation R(ABCD) has following FDs:

(ACD → B ;

AC → D ;

D → C ;

AC → B)

Choose the correct statement about R:

☐ a. R is in 1NF only, not higher

☒ b. R is in 3NF

☐ c. None of the others

☐ d. R is in 2NF only, not higher

Clear my choice

Question 3

Answer saved

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Flag question

The relational operator that adds all possible pairs of rows from two tables is known as the operator.

☐ a. join

☐ b. union

☒ c. product

☐ d. selection

Clear my choice

Question 4

Answer saved

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Flag question

Today, the two important data models are:

☐ a. The semi-structured data model (including XML and related standards) and the network data model

☐ b. The flat file data model and the semi-structured data model (including XML and related standards)

☒ c. The relational data model (including object-relational extensions) and the semi-structured data model (including XML and related standards)

☐ d. The network data model and the flat file data model

Clear my choice

Question 5

Answer saved

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Flag question

Which of following feature is NOT responsibility of Database Management System

☐ a. Allow users to create new databases and specify their schemas

☐ b. Support the storage of very large amounts of data

☒ c. Manage user accounts of computer on which DBMS is running

☐ d. Give users the ability to query the data

Clear my choice

Question 6

Answer saved

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Flag question

Which of following is never used as data model?

☐ a. Hierarchical model

☐ b. Graph-based model

☐ c. Relational database model

☒ d. None of the others

☐ e. Tree-based model

Clear my choice

Question 7

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Flag question

_____ is responsible for defining the content, the structure, the constraints, and functions or transactions against the database

☐ a. Database enduser

☒ b. Database designer

☐ c. All of the others

☐ d. Database administrator

Clear my choice

Question 8

Answer saved

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Flag question

Which of the followings are the characteristics of transactions?

☒ a. Atomicity

☒ b. Isolation

☐ c. Serialization

☐ d. Concurrency

☐ e. Commission

Question 9

Answer saved

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Flag question

Schema-altering commands are known as _____ commands

☐ a. Data Controlling Language

☐ b. Data Manipulation Language

☐ c. None of the others

☒ d. Data Definition Language

Clear my choice

Question 10

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Flag question

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Finish attempt ...

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Flag question

☐ a. $\sigma_{A=B \text{ AND } C < A+B(R)} = 'O'$
☐ b. $\sigma_{A=B \text{ AND } C \neq A+B(R)} = 'O'$
☐ c. $\sigma_{A=B \text{ OR } C \neq A+B(R)} = 'O'$
☒ d. $\sigma_{A=B \text{ OR } C < A+B(R)} = 'O'$

Clear my choice

Question 22
Answer saved
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Flag question

The relational operator that yields all possible pairs of rows from two tables is known as a ...

☐ a. Union
☒ b. Product
☐ c. Join
☐ d. Selection

Clear my choice

Question 23
Answer saved
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Flag question

Suppose two relations R1(A,B), R2(C,D) and the theta join $R3 := R1 \bowtie_{B < C} R2$. Which of the followings is correct?

☐ a. Each tuple t1 of R1 connect with all those tuple t2 of R2 if $t1.B < t2.C$
☒ b. Each tuple t1 of R1 connect with some those tuple t2 of R2 if $t1.B < t2.C$
☐ c. None of the others
☐ d. Each tuple t1 of R1 connect with one tuple t2 of R2 if $t1.B < t2.C$

Clear my choice

Question 24
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Why do we choose relational data model?

☐ a. Because it is used in object oriented programming
☐ b. Because it is the most modern data model in market
☒ c. Because of its important role in software engineering
☐ d. None of the others

Clear my choice

Question 25
Answer saved
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Flag question

Given a relation R(A,B,C,D) with functional dependencies $A \rightarrow B, C \rightarrow D$. Find one key of R.

☐ a. {A,B,C}
☐ b. {B,C,D}
☐ c. {B,C}
☒ d. {A,C}
☐ e. {A}

Clear my choice

Question 26
Answer saved
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Flag question

Given a relation R(A,B,C,D) with functional dependencies $A \rightarrow B, C \rightarrow D, D \rightarrow B$. Compute $\{C\}^+$

☐ a. {A,B,C}
☒ b. {B,C,D}
☐ c. {A,B,C,D}
☐ d. {A,C}

Clear my choice

Question 27
Answer saved
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Flag question

Given a relation R(A,B,C,D,E) with functional dependencies $A \rightarrow B, C \rightarrow D, D \rightarrow E, E \rightarrow A$. Compute $\{C\}^+$

☐ a. {C,D,E}
☒ b. {C,D,E,A,B}
☐ c. {C,D}
☐ d. {C,D,E,A}

Clear my choice

Question 28
Answer saved
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Flag question

Which of the following is considered anomaly?

☒ a. All of the others
☐ b. If a set of values becomes empty, we may lose other information as a side effect
☐ c. Information may be changed in one tuple, but may not be changed in other tuple(s)
☐ d. Information may be repeated unnecessarily in several tuples

Clear my choice

Question 29
Answer saved
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Flag question

An A attribute is called the key of relation R if _____

☐ a. There are no two tuples that have the same values on the A component
☐ b. Its closure includes all attributes of relation R
☒ c. All of the others
☐ d. It functionally determines all the other attributes of relation R

Clear my choice

Question 30
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Flag question

Consider a relation with schema R(A, B, C, D) and FD's $A \rightarrow B, A \rightarrow C, C \rightarrow D$. Which of the following is the $\{A\}^+$?

☐ a. {A}
☐ b. {A,B,C}
☐ c. {A,B}
☒ d. {A,B,C,D}

Clear my choice

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Quiz 1

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