DBI202 - Nguyễn Thế ...

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Question 1
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The relation R(ABCD) has following FDs:

{ A -> B ; B -> A ; A -> D ; D -> B }

○ a.   R is not in 3NF
○ b.   R is not in 2NF
○ c.   None of the others
◉ 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.   None of the others
○ b.   R is in 1NF 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.   selection
◉ b.   product
○ c.   union
○ d.   join

Clear my choice

Question 4
Answer saved
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⚑ Flag question

Today, the two important data models are:

○ a.   The flat file data model and the semi-structured data model (including XML and related standards)
○ b.   The semi-structured data model (including XML and related standards) and the network data model
◉ 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.   Manage user accounts of computer on which DBMS is running
○ c.   Support the storage of very large amounts of data
○ 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.   Tree-based model
○ b.   Graph-based model
○ c.   Hierarchical model
○ d.   Relational database model
◉ e.   None of the others

Clear my choice

Question 7
Answer saved
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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 administrator
○ b.   All of the others
◉ c.   Database designer
○ d.   Database enduser

Clear my choice

Question 8
Answer saved
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⚑ Flag question

Which of the followings are the characteristics of transactions?

☐ a.   Serialization
☑ b.   Atomicity
☐ c.   Concurrency
☐ d.   Commission
☑ e.   Isolation

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**

Answer saved

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⚑ Flag question

Suppose that we try to connect to hcm-cms.fpt.edu.vn using Internet Explorer. In this case, we are_____

- ○ a. Database user
- ○ b. Database administrator
- ○ c. None of the others
- ⦿ d. Database designer

Clear my choice

Question **11**

Answer saved

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⚑ Flag question

Which of the following statement is belong to DML?

- ○ a. ALTER
- ○ b. CREATE
- ⦿ c. INSERT
- ○ d. GRANT

Clear my choice

Question **12**

Answer saved

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⚑ Flag question

Which of the followings is not available in relational data model?

- ○ a. Data manipulation language
- ○ b. Data definition language
- ○ c. None of the others
- ⦿ d. Entity Relationship

Clear my choice

Question **13**

Answer saved

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⚑ Flag question

In the architecture of a database management system, the query compiler translates the query into an internal form called a _____

- ○ a. metadata
- ○ b. textual form
- ⦿ c. query plan
- ○ d. SQL statement form

Clear my choice

Question **14**

Answer saved

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⚑ Flag question

Which of the followings is correct about database?

- ○ a. Database is a collection of data that is managed by a DBMS
- ⦿ b. All of the others
- ○ c. Database is a collection of information that exists over a long period of time
- ○ d. Database is created and maintained by DMBS

Clear my choice

Question **15**

Answer saved

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⚑ Flag question

Data model is a notation for describing data or information. The description consists of _____

- ☑ a. Structure of the data
- ☐ b. Privilege on the data
- ☑ c. Constraints on the data
- ☐ d. Users on the data
- ☑ e. Operations on the data

Question **16**

Answer saved

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⚑ Flag question

Which of the following is a language to access and manipulate data from a database, even non-programmers can use it to retrieve and update data ?

- ⦿ a. Structured Query Language
- ○ b. JDBC
- ○ c. All of the others
- ○ d. ODBC

Clear my choice

Question **17**

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⚑ Flag question

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has _____

- ○ a. n1+n2 attributes, and t1+t2 tuples
- ○ b. n1*n2 attributes, and t1*t2 tuples
- ⦿ c. n1+n2 attributes, and t1*t2 tuples
- ○ d. n1*n2 attributes, and t1+t2 tuples

Clear my choice

Question **18**

Answer saved

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⚑ Flag question

When performing union, intersection, or difference operations on relations R and S, they must be type compatible. That is, _____

- ○ a. The domain of corresponding attributes of R and S must be compatible
- ⦿ b. R and S must have the same number of attributes and the domain of corresponding attributes of R and S must be compatible
- ○ c. R and S must have the same number of attributes
- ○ d. The names of attributes of R and S must be the same

Clear my choice

Question **19**

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has _____

Answer saved

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⚐ Flag
question

- ○ a. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)
- ○ b. 1 tuple (1, 2, 10, 11)
- ○ c. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)
- ● d. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Clear my choice

Question 20

Answer saved

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question

When we define an attribute A as PRIMARY KEY of relation R, then _____

- ○ a. No more primary key on the relation R
- ● b. All of the others
- ○ c. There are no two tuples that have the same values on the A component
- ○ d. Tuple must be not null on the A component

Clear my choice

Question 21

Answer saved

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question

Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int):
For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

- ○ a. $\sigma_{A<=B\ OR\ C>=A+B}(R)=`O/`$
- ● b. $\sigma_{A>B\ OR\ C<A+B}(R) = `O/`$
- ○ c. $\sigma_{A>B\ AND\ C<A+B}(R) = `O/`$
- ○ d. $\sigma_{A<=B\ AND\ C>=A+B}(R)=`O/`$

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. Join
- ○ b. Union
- ○ c. Selection
- ● d. Product

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 ⋈ $_{B<C}$ R2. Which of the followings is correct?

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

Clear my choice

Question 24

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question

Why do we choose relational data model?

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

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->B, C->D. Find one key of R.

- ○ a. {B,C}
- ○ b. {A}
- ○ c. {B,C,D}
- ○ d. {A,B,C}
- ● e. {A,C}

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->B, C->D, D->B. Compute {C}+

- ○ a. {A,B,C}
- ● b. {B,C,D}
- ○ c. {A,C}
- ○ d. {A,B,C,D}

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->B, C->D, D->E, E->A. Compute {C}+

- ○ a. {C,D,E,A}
- ○ b. {C,D}
- ● c. {C,D,E,A,B}
- ○ d. {C,D,E}

Clear my choice

Question 28

Answer saved

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⚐ Flag
question

Which of the following is considered anomaly?

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

Clear my choice

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

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

Clear my choice

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

○ a. {A,B}
○ b. {A}
◉ c. {A,B,C,D}
○ d. {A,B,C}

Clear my choice

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