

DBI202 - Nguyễn Thế ...

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Hide blocks Standard view

> Home > My courses > DBI202-HoangNT > QUIZ > Quiz 2

Question 1

Answer saved
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Flag question

The relation R(ABCD) has following FDs:

{ A \rightarrow B ; B \rightarrow A ; A \rightarrow D ; D \rightarrow B }

- a. R is in 3NF
- b. R is not in 3NF
- c. R is not in 3NF
- d. None of the others

[Clear my choice](#)

Quiz navigation

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	

[Finish attempt ...](#)

Question 2

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Flag question

The relation R(ABCD) has following FDs:

{ACD \rightarrow B ;

AC \rightarrow D ;

D \rightarrow C ;

AC \rightarrow B}

Choose the correct statement about R:

- a. R is in 3NF
- b. R is in 1NF only, not higher
- c. None of the others
- d. R is in 2NF only, not higher

[Clear my choice](#)

Question 3

Answer saved
Marked out of 1.00

Flag question

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

- a. union
- b. join
- c. selection
- d. product

[Clear my choice](#)

Question 4

Answer saved
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Flag question

Today, the two important data models are:

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

[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. Give users the ability to query the data
- b. Allow users to create new databases and specify their schemas
- c. Support the storage of very large amounts of data
- d. Manage user accounts of computer on which DBMS is running

[Clear my choice](#)

Question 6

Answer saved
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Flag question

Which of following is never used as data model?

- a. None of the others
- b. Relational database model
- c. Hierarchical model
- d. Graph-based model
- e. Tree-based model

[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 designer
- b. All of the others
- c. Database enduser
- 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. Commission
- b. Atomicity
- c. Isolation
- d. Concurrency

e. Serialization

Question 9
Answer saved
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 Flag question

Schema-altering commands are known as _____ commands

- a. Data Manipulation Language
- b. Data Controlling 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. Database designer
- d. None of the others

[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. GRANT
- c. CREATE
- d. INSERT

[Clear my choice](#)

Question 12
Answer saved
Marked out of 1.00
 Flag question

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

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

[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. SQL statement form
- b. textual form
- c. metadata
- d. query plan

[Clear my choice](#)

Question 14
Answer saved
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 Flag question

Which of the followings is correct about database?

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

[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. Operations on the data
- c. Privilege on the data
- d. Users on the data
- e. Constraints 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. ODBC
- d. All of the others

[Clear my choice](#)

Question 17
Answer saved
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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. R and S must have the same number of attributes
- 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. The names of attributes of R and S must be the same

question

- c. The names of attributes of R and S must be the same
- d. The domain of corresponding attributes of R and S must be compatible

Clear my choice

Question 19

Answer saved

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Flag question

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 _____

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

Clear my choice

Question 20

Answer saved

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1.00

Flag question

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

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

Clear my choice

Question 21

Answer saved

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Flag 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. $\sigma_{A <= B} \text{ AND } C >= A + B(R) = 'O'$
- b. $\sigma_{A <= B} \text{ OR } C >= A + B(R) = 'O'$
- c. $\sigma_{A > B \text{ OR } C < A + B}(R) = 'O'$
- d. $\sigma_{A > B} \text{ AND } C < A + B(R) = 'O'$

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

Clear my choice

Question 23

Answer saved

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1.00

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

Clear my choice

Question 24

Answer saved

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Flag 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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1.00

Flag question

Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R.

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

Clear my choice

Question 27

Answer saved

Marked out of

1.00

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

Clear my choice

Question 28

Which of the following is considered anomaly?

Answer saved
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 Flag question

- a. information may be changed in one tuple, but may not be changed in other tuple(s)
- b. if a set of values becomes empty, we may lose other information as a side effect
- c. All of the others
- 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. All of the others
 - b. Its closure includes all attributes of relation R
 - c. There are no two tuples that have the same values on the A component
 - d. It functionally determines all the other attributes of relation R

[Clear my choice](#)

Question 30
Answer saved
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 Flag question

- 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,B,C}
 - c. {A}
 - d. {A,B,C,D}

[Clear my choice](#)

[Next page](#)

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Quiz 1

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