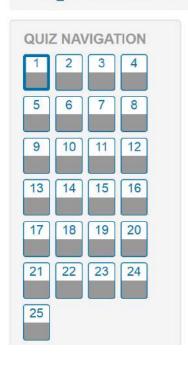
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Question 1

Answer saved

Marked out of 1.00

Flag question

What is the result of applying division operator between relation 1 and relation 2 in relation algebra?

Select one:

- a. A relation with attributes in relation 1 without the attributes common between relation 1 and relation 2
- b. A relation with only attributes of relation 1
- c. A relation with attributes common between relation 1 and relation
- d. A relation with attributes in relation 1 and the attributes in relation

C312G318/332G318)

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Question 2

Answer saved

Marked out of 1.00

Flag question

 $\pi_{\mathrm{customer_name}} \ (\mathrm{depositor}) \cup \ \pi_{\mathrm{customer_name}} \ (\mathrm{borrower}).$

Select one:

- a. The output of the relation algebra query will be the same when we do the union of depositor and borrower and then apply projection operation. Schemas for depositor and borrower are: depositor (customer_name, account_number); borrower (customer_name, loan_number). account_number and loan_number have different domains.
- b. The set difference operation will result in faster output than the above query.
- c. The relation will output another relation having only customer_name attribute and there will not be any duplicates
- d. The relation will output another relation having only customer_name attribute and there may be some duplicates

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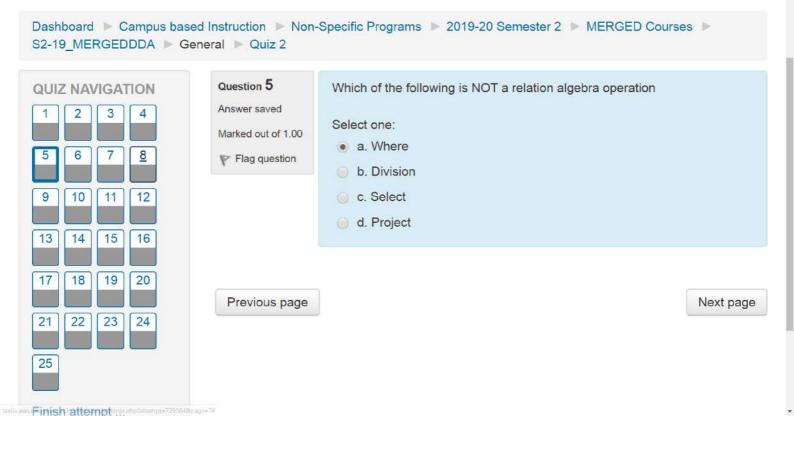
Finish attempt ...

What is "on delete restrict" in SQL?

Select one:

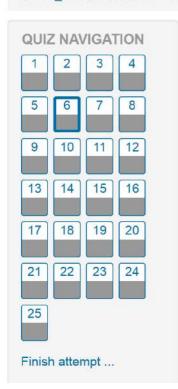
- o a. its a delete constraint on primary key
-) b. it is a delete constraint that restricts the table to be deleted
- o c. it is a foreign key constraint that deletes entity in the foreign key if the coorresponding entity is deleted
- od. its a foreign key constraint that restricts the entity to be deleted

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Question 6

Answer saved

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Flag question

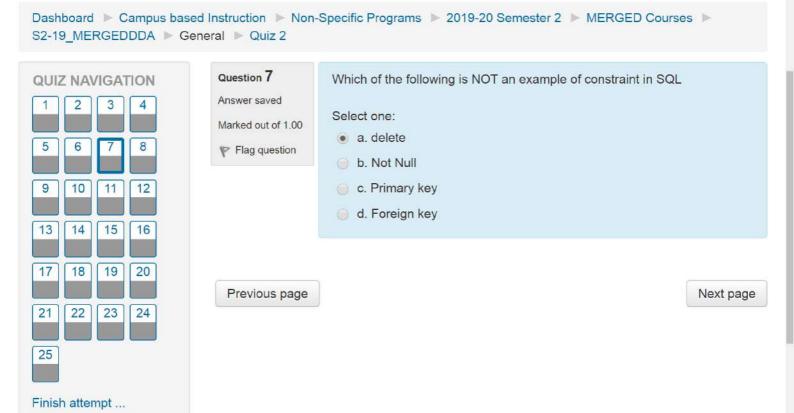
What is true with respect to the constraints in SQL

Select one:

- o a. We can specify constraints applicable to entire table using DML
- b. We can specify constraints applicable to individual columns using DML
- c. We can specify constraints applicable to the individual tuple using DDL
- d. We can specify constraints applicable to individual columns using DDL

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C312G310/332G310)



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Question 8

Answer saved

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Flag question

What is the result of natural join operation if we don't have any attribute common

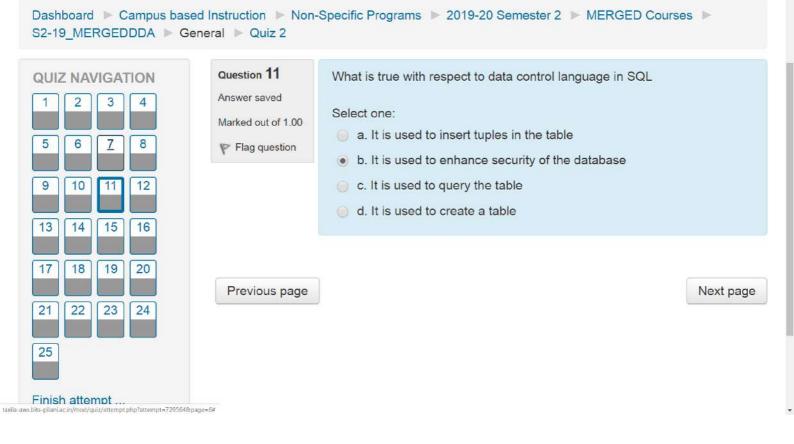
Select one:

- a. The result is as good as full outer join
- b. The result is as good as a Cartesian product
- o. The result will not have any tuples
- od. The result is as good as theta join

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Question 12

Answer saved

Marked out of 1.00

Flag question

 $\pi_{\text{loan number}} (\sigma_{\text{amount} > 1200} (\text{loan}))$

Select one:

- a. Both select and project operation are mutually exclusive, hence apart from efficiency there is no effect on the answer
- b. If the select and project operations are applied on a relation, it is same as union and intersection operation
- c. If we do project first in the inner parenthesis and select later on, the answer is NOT going to change
- d. If we do project first in the inner parenthesis and select later on, the answer is going to change

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Database Design and Applications (Merged - CSIZG518/SSZG518)

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Answer saved

How do you best describe the Project operation in relation algebra? The output is a separate relation that

Select one:

- o a. Allows to combine the two different relations
- b. Allows us to select subset of columns and subset of rows based on certain constraints
- o c. Deletes the unwanted columns from a relation
- od. Deletes the unwanted rows from a relation

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Flag question

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Question 14

Answer saved

Marked out of 1.00

Flag question

What is true with respect to aggregate functions in relation algebra

Select one:

- a. They take a collection of values and return a single value as a result.
- b. The aggregation operations have the capability to replace the select operation
- c. They take a group of relations and return a group of relations as
 a result
- d. They take a group of relations and return a single relation as a result

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Question 15

Answer saved

Marked out of 1.00

Flag question

What is true with respect to data manipulation language in SQL

Select one:

- a. It is used to alter table in the database
- o b. It is used to create a table
- o c. It is used to enhance security of the database
- d. It is used to retrieve data from the existing table

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Question 16

Answer saved

Marked out of 1.00

Flag question

SELECT ename FROM emp WHERE comm IS NULL and job ='CLERK ' or job = 'SALESMAN'; What is the output of this SQL Query?

Select one:

- a. it prints the ename from emp table when job is clerk or slaesman or comm is null
- b. it prints the ename from emp table when job is clerk or slaesman and comm is null
- c. it prints the ename from emp table when comm is null and job is clerk. It also prints the ename whose job is salesman
- d. it prints the ename from emp table when job is clerk and slaesman and comm is null

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Question 17

Answer saved

Marked out of 1.00

Flag question

What is "on delete cascade" in SQL?

Select one:

- a. its a delete constraint on primary key
- b. it is a foreign key constraint that deletes entity in the foreign key if the coorresponding entity is deleted
- o. it is a delete constraint that restricts the table to be deleted
- od. its a foreign key constraint that restricts the entity to be deleted

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Finish attempt ...

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Question 19

Answer saved

Marked out of 1.00

Flag question

Select one:

- if the relation1 has 4 attributes and 6 tuples, relation2 has 2 attributes and 3 tuples. What is the output of Cartesian product of relation 1 with relation 2
- a. There will be total of 8 attributes and 18 tuples in final relation.
- b. There will be total of 6 attributes and 9 tuples in final relation.
- o. There will be total of 8 attributes and 9 tuples in final relation.
- d. There will be total of 6 attributes and 18 tuples in final relation.

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Question 20

Answer saved

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Flag question

How do you best describe the set difference operation in relation algebra

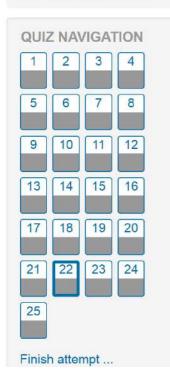
Select one:

- a. It takes the attributes that are in first relation but not in the second relation
- b. It takes tuples in first relation but not in second relation
- c. It takes the tuples from both the relations at the same time removing the duplicates
- d. Uses the mathematical difference between individual absolute values of each tuple in two relations

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Question 22

Answer saved

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Flag question

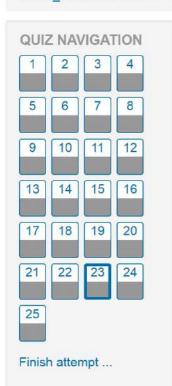
What is a trivial functional dependency?

Select one:

- o a. A functional dependency that can be inferred from the relation
- b. A functional dependency in which LHS is subsed of RHS
- c. A functional dependency where the RHS is subset of LHS
- d. A functional dependency where part of functional dependency is given and part can be inferred

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Question 23

Answer saved

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Flag question

How do you best describe the union operation in relation algebra

Select one:

- a. It takes the attributes of both the relations and removing the duplicates
- b. It takes the tuples from both the relations at the same time removing the duplicates
- o. It takes tuples in first relation but not in second relation
- d. Uses the mathematical addition of individual absolute values of each tuples in two relations

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Finish attempt ...

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Question 25

Answer saved

Marked out of 1.00

Flag question

Second normal form is most closely associated with

Select one:

- o a. multivalued functional dependency
- b. full functional dependency
- o c. transitive functional dependency
- d. trivial functional dependency

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Finish attempt ...