

Question 31
Answer saved
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Flag question

Which of the following statements is valid?

☐ a. If $A \rightarrow B$, $B \rightarrow C$ hold in relation R, then $A \rightarrow C$ holds, too

☒ b. All of the others

☐ c. If $A \rightarrow B$, $B \rightarrow C$ hold in relation R, then $A \rightarrow C$ holds, too

☐ d. If $A \rightarrow B$, $B \rightarrow C$ hold in relation R, then $A \rightarrow C$ holds, too

Clear my choice

Question 32
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Given a relation R(A,B,C,D) with functional dependencies $A \rightarrow B$, $AC \rightarrow D$, $C \rightarrow A$. Which functional dependency violates the BCNF condition?

☐ a. None of the others

☒ b. $A \rightarrow B$

☐ c. $AC \rightarrow D$

☐ d. $C \rightarrow A$

Clear my choice

Question 33
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Given a relation R(A,B,C,D) with functional dependencies $AC \rightarrow D$, $BC \rightarrow A$, $CD \rightarrow B$. One key of R is _____

☐ a. (A, B, D)

☒ b. (C, D)

☐ c. (A, D)

☐ d. (A, B)

Clear my choice

Question 34
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One attribute is called prime if _____

☐ a. None of the others

☒ b. It is a member of key

☐ c. It is a member of foreign key

☐ d. It is a member of super key

Clear my choice

Question 35
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What can be the condition in where clause in a SQL query?

☐ a. Boolean Condition only

☐ b. None of the above

☒ c. Condition that is to be met for the rows to be returned from result.

☐ d. Text condition only

Clear my choice

Question 36
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What does the following SQL statement do:

```
SELECT Customer, COUNT(Order)
FROM Sales
GROUP BY Customer
HAVING COUNT(Order) > 5
```

☒ a. Selects all customers from table Sales that have made more than 5 orders.

☐ b. None of the other three

☐ c. Selects the total number of orders from the Sales table, if this number is greater than 5

☐ d. Selects all Customers from the Sales table

Clear my choice

Question 37
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Flag question

What is a database?

☐ a. A database is a collection of records

☐ b. A database is a collection of tuples

☐ c. A database is a collection of data files

☒ d. A database is a collection of information that is organized so that it can easily be accessed, managed, and updated

Clear my choice

Question 38
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Flag question

What is a graph database?

☐ a. None of the others

☐ b. A graph database is a database that uses table structures to represent and store information

☐ c. A graph database is a database that uses tree structures with nodes to represent and store information

☒ d. A graph database is a database that uses graph structures with nodes, edges and properties to represent and store information

Clear my choice

Question 39
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Flag question

What is a primary key?

☐ a. A primary key is the field(s) in a table that uniquely defines that table in a database

☐ b. A primary key is the field(s) in a table that is used to establishes a relationship between two tables

☐ c. A primary key is the field(s) in a table that is used to establishes a relationship between two databases

☒ d. A primary key is the field(s) in a table that uniquely defines the row in the table

Clear my choice

Question 40
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What is another term for a row in a relational table?

☐ a. Field

☐ b. Attribute

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- ~
- ☐ c. Relation
 - ☒ d. Tuple
- [Clear my choice](#)

Question 41

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What is difference between PRIMARY KEY and UNIQUE KEY ?

- ☐ a. None of the others
- ☐ b. A table can have more than one PRIMARY KEY constraint but only one UNIQUE KEY
- ☒ c. A table can have more than one UNIQUE KEY constraint but only one PRIMARY KEY
- ☐ d. UNIQUE KEY and PRIMARY KEY are the same

[Clear my choice](#)

Question 42

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Flag question

What is the benefit of "de-normalization"?

- ☐ a. The main benefit of de-normalization is eliminating redundant information from a table and organizing the data so that future changes to the table are easier
- ☐ b. "de-normalization" has no benefit
- ☒ c. The main benefit of de-normalization is improved performance with simplified data retrieval (this is done by reduction in the number of joins needed for data processing)

[Clear my choice](#)

Question 43

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Flag question

What is the default order of Order by Clause?

- ☒ a. Ascending
- ☐ b. Random
- ☐ c. None of the above
- ☐ d. Descending

[Clear my choice](#)

Question 44

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Flag question

What is the difference between Where and Having Clause?

- ☐ a. WHERE and HAVING are the same
- ☒ b. WHERE is for Rows and HAVING is for Groups
- ☐ c. We can use aggregation functions in WHERE clause
- ☐ d. WHERE is for Groups and HAVING is for Rows

[Clear my choice](#)

Question 45

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Flag question

What is the hierarchical data model?

- ☒ a. A hierarchical data model is a data model in which the data is organized into a tree-like structure
- ☐ b. None of the others
- ☐ c. A hierarchical data model is a data model in which the data is organized into a table-like structure
- ☐ d. A hierarchical data model is a data model in which the data is organized into a graph-like structure

[Clear my choice](#)

Question 46

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Flag question

What is the purpose of Order By Clause in SQL server?

- ☒ a. It is used to sort the result.
- ☐ b. None of the above
- ☐ c. It is used to change sequence order of columns
- ☐ d. It can't be used in SQL Server

[Clear my choice](#)

Question 47

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Flag question

What is the storage size of smallmoney data type?

- ☐ a. 8 bytes
- ☒ b. 4 bytes
- ☐ c. 2 bytes
- ☐ d. 3 bytes

[Clear my choice](#)

Question 48

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Flag question

What is true about Unique and primary key?

- ☒ a. Unique can have single NULL value but Primary can't have even single.
- ☐ b. Unique can have multiple NULL values but Primary can't have.
- ☐ c. None of the above
- ☐ d. Both can have duplicate values

[Clear my choice](#)

Question 49

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Flag question

What needs to be added when user want to show results by Descending Order?

- ☐ a. Descending order cannot be possible.
- ☒ b. User can add DESC with Order By clause
- ☐ c. User can add '<<ASC' with Order by Clause.
- ☐ d. None of the above

[Clear my choice](#)

Question 50

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Flag question

Which command to use in order to delete the data inside the table, and not the table itself

- ☒ a. Both TRUNCATE & DELETE
- ☐ b. DROP
- ☐ c. DELETE
- ☐ d. TRUNCATE

[Clear my choice](#)

Question 51

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Which is the subset of SQL commands used to manipulate Database structures, including tables?

- ☐ a. DCL (Data Control Language)
- ☐ b. All of the others

question

☐ c. UML (Data Manipulation Language)

☒ d. DDL (Data Definition Language)

Clear my choice

Question 52

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Which key accepts multiple NULL values?

☐ a. Primary Key

☐ b. None of the above

☒ c. Foreign Key

☐ d. Unique Key

Clear my choice

Question 53

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Flag question

Consider the following functional dependencies
a,b -> c,d e,g,h -> f,j
a,c -> b,d p,q -> r,s
e,f,g -> h,i s -> t
f,g -> j q -> u
g,h -> i
Which of the following best describes the relation R(e,f,g,h,i,j)?

☐ a. R is in Third Normal Form

☐ b. R is in Second Normal Form

☐ c. R is in Boyce Codd Normal Form

☒ d. R is in First Normal Form

Clear my choice

Question 54

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Flag question

Which of the following FDs is also guaranteed to be satisfied by R?

☒ a. ACG -> DH

☐ b. CGH -> BF

☐ c. BCD -> FH

☐ d. ADG -> CH

Clear my choice

Question 55

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Flag question

Which of the following is not a Key in SQL Server?

☐ a. Foreign

☒ b. Secondary

☐ c. Primary

☐ d. Alternate

Clear my choice

Question 56

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Flag question

Which of the following statements is true?

☐ a. In BCNF condition, the left side of every non trivial FD must be a super key.

☐ b. BCNF condition guarantees the non existence of the anomalies.

☒ c. All of the others.

☐ d. Any two-attribute relation is in BCNF.

Clear my choice

Question 57

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Flag question

Which of the followings is part of data model?

☐ a. Structure of the data

☐ b. Constraints on the data

☐ c. Operations on the data

☒ d. All of the others

Clear my choice

Question 58

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Flag question

Which one is correct syntax for Where clause in SQL server?

☐ a. None of the others

☒ b. SELECT Col1, Col2 FROM "Table" WHERE "condition";

☐ c. SELECT "Condition" Col1, Col2 FROM "Table" WHERE;

☐ d. SELECT WHERE "Condition" Col1, Col2 FROM "Table" ;

Clear my choice

Question 59

Answer saved

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Flag question

Which one of the following is NOT a DML command?

☐ a. DELETE

☐ b. INSERT

☒ c. GRANT

☐ d. UPDATE

Clear my choice

Question 60

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Which statement is used to add a column named D into the relation R?

☐ a. ALTER TABLE R ADD PROPERTY D [DataType];

☒ b. ALTER TABLE R ADD D [DataType];

☐ c. ALTER TABLE R ADD ATTRIBUTE D [DataType];

Clear my choice

