DATABASE -2

Marks :40 , Time: 1 hr

Name *

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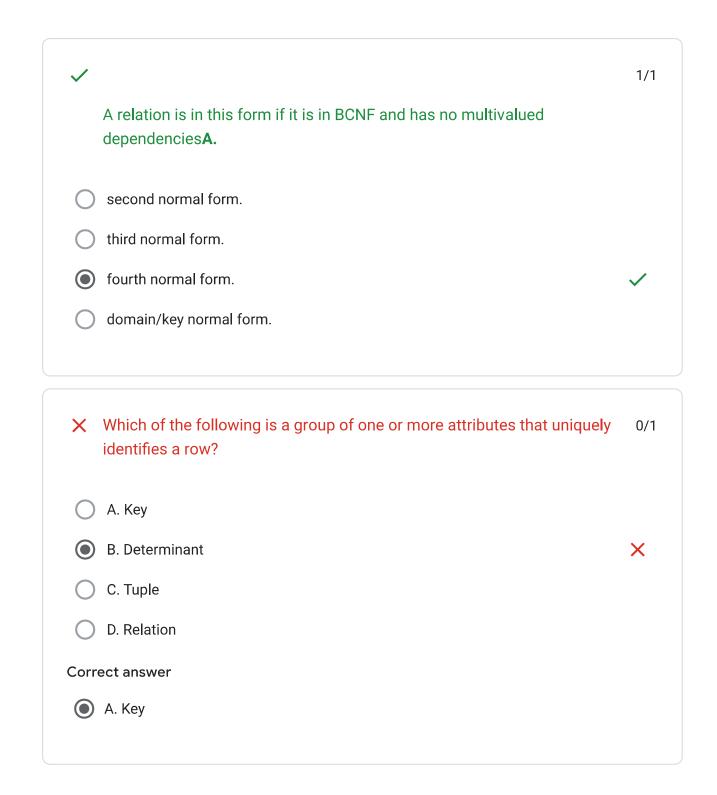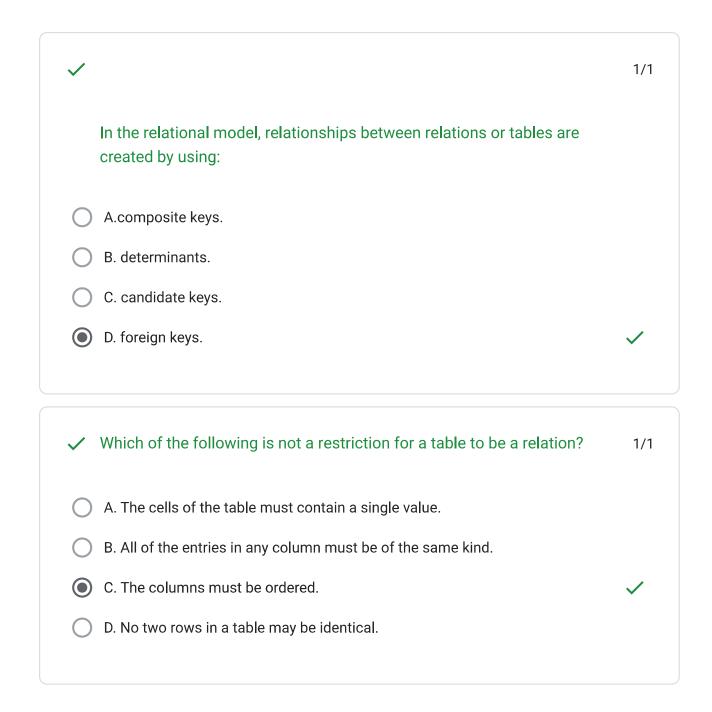
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✓ An attribute or combination of attributes in one table whose values must 1/1 either match the primary key in another table or be null is called _____.

○ Secondary Key

○ Super key

○ Candidate Key

⦿ Foreign Key ✓

✓ A transaction state changes from active to_____, after the transaction has 1/1 been rolled back and the database restored to its state prior to the start of the transaction.

○ a. Partially committed

○ b. Committed

⦿ c. Aborted ✓

○ d. Failed

✗ How is specialization denoted in an ER Diagram? 0/1

○ a. Triangle labeled IS A

○ b. Rectangle labeled IS A

● c. Rectangle Labeled HAS A ✗

○ d. Triangle labeled HAS A

Correct answer

● a. Triangle labeled IS A

✓ What stores the metadata about the structure of the database, in particular 1/1
the schema of the database?

○ a. Indices

○ b. Database log

○ c. Data files

● d. Data Dictionary ✓

✕ What is a schedule for a set of transactions? 0/1

○ a. It consists of all instructions of those transactions.

◉ b. It preserve the order in which the instructions appear in each individual transaction. ✕

○ c. Both a and b

○ d. None of these

Correct answer

◉ c. Both a and b

✓ Which is the correct SQL syntax from the following to create a PRIMARY KEY constraint on existing table " EMPLOYEE " on " EMPID " column and currently column does not contain any value? 1/1

○ a. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key, EMPID;

○ b. Update table EMPLOYEE Add Constraint PK - EMPID Primary Key (EMPID);

◉ c. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key (EMPID); ✓

○ d. Alter table EMPLOYEE Add Constraint PK - EMPID Primary Key, (EMPID);

✕ **What information is not provided by a data dictionary?** 0/1

⦿ a. How data is used ✕

◯ b. Where data is located

◯ c. Size of storage disk

◯ d. Who owns or is responsible for data

Correct answer

⦿ c. Size of storage disk

✓ **How can a tuple be divided in a relational schema?** 1/1

⦿ a. Domains ✓

◯ b. Queries

◯ c. Relations

◯ d. Joins

✓ 1/1

A relation is in this form if it is in BCNF and has no multivalued dependencies**A.**

○ second normal form.

○ third normal form.

● fourth normal form. ✓

○ domain/key normal form.

✗ Which of the following is a group of one or more attributes that uniquely 0/1
identifies a row?

○ A. Key

● B. Determinant ✗

○ C. Tuple

○ D. Relation

Correct answer

● A. Key

✓ 1/1

In the relational model, relationships between relations or tables are created by using:

○ A.composite keys.

○ B. determinants.

○ C. candidate keys.

◉ D. foreign keys. ✓

✓ Which of the following is not a restriction for a table to be a relation? 1/1

○ A. The cells of the table must contain a single value.

○ B. All of the entries in any column must be of the same kind.

◉ C. The columns must be ordered. ✓

○ D. No two rows in a table may be identical.

✗ A relation in this form is free of all modification anomalies. 0/1

○ A. First normal form

○ B. Second normal form

◉ C. Third normal form ✗

○ D. Domain/key normal form

Correct answer

◉ D. Domain/key normal form

✓ A tuple is a(n): 1/1

○ A. column of a table.

○ B. two dimensional table.

◉ C. row of a table. ✓

○ D. key of a table.

✓ Which of the following indicates the maximum number of entities that can 1/1
be involved in a relationship?

○ A. Minimum cardinality

◉ B. Maximum cardinality ✓

○ C. ERD

○ D. Greater Entity Count (GEC)

✕ Which type of entity cannot exist in the database unless another type of 0/1
entity also exists in the database, but does not require that the identifier of
that other entity be included as part of its own identifier?

○ A. Weak entity

○ B. Strong entity

○ C. ID-dependent entity

◉ D. ID- independent entity ✕

Correct answer

◉ A. Weak entity

✕ Which of the following refers to something that can be identified in the users' work environment, something that the users want to track? 0/1

○ A. Entity

○ B. Attribute

◉ C. Identifier ✕

○ D. Relationship

Correct answer

◉ A. Entity

✗ The DBMS acts as an interface between what two components of an enterprise-class database system? 0/1

○ A. Database application and the database

○ B. Data and the database

◉ C. The user and the database application   ✗

○ D. Database application and SQL

Correct answer

◉ A. Database application and the database

A DBMS that combines a DBMS and an application generator is _____ .

⦿ A. Microsoft's SQL Server ✕

◯ B. Microsoft's Access

◯ C. IBM's DB2

◯ D. Oracle Corporation's Oracle

Correct answer

⦿ B. Microsoft's Access

✓

You have run an SQL statement that asked the DBMS to display data in a table named USER_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at _____

- ○ A. user data.
- ● B. metadata ✓
- ○ C. A report
- ○ D. indexes

✗ which of the following is a correct SQL query   0/1

◉ A) Select * from emp where eid=100 , ename='a'   ✗

○ B) Select * from emp where eid=100 ename='a'

○ C) Select * where eid=100 and ename='a' from emp

○ D) Select * from emp where eid=100 and ename='a'

Correct answer

◉ D) Select * from emp where eid=100 and ename='a'

✗ How many null values can a unique key column have in MySQL   0/1

○ A) Multiple

◉ B) 0   ✗

○ C) 1

○ D) 2

Correct answer

◉ A) Multiple

✗ which of the following set operators are supported by MySQL   0/1

○ A) Union

○ B) Intersect

○ C) Minus

◉ D) Except   ✗

Correct answer

◉ A) Union

✗ 4NF is designed to cope with: 0/1

○ A) Transitive dependency

○ B) Join dependency

○ C) Multi valued dependency

◉ D) None of these   ✗

Correct answer

◉ C) Multi valued dependency

✓ In a relational database a referential integrity constraint can be specified with the help of   1/1

○ A) primary key

● B) foreign key   ✓

○ C) secondary key

○ D) none of the above

✓ A Function that has no partial dependencies is in   1/1

○ A) 3NF

● B) 2NF   ✓

○ C) 4NF

○ D) BCNF

✗ If every non-key attribute is functionally dependent on the entire primary key, then the relation will be in: 0/1

○ A) 3NF

○ B) 2NF

○ C) 4NF

◉ D) BCNF   ✗

Correct answer

◉ B) 2NF

✓ Third normal form is based on the concept of   1/1

○ A) Closure Dependency

◉ B) Transitive Dependency   ✓

○ C) Normal Dependency

○ D) Functional Dependency

✓ What SQL clause is used to **restrict the rows** returned by a query? 1/1

○ a) AND

◉ b) WHERE ✓

○ c) Group

○ d) FROM

✓ The USE command? 1/1

○ a) Is used to load code from another file

○ b) Has been deprecated and should be avoided for security reasons

○ c) Is a pseudonym for the SELECT command

◉ d) Should be used to choose the database you want to use once you've connected to MySQL ✓

✓ A subquery in an SQL SELECT statement is enclosed in: 1/1

○ A. braces -- {...}.

○ B. CAPITAL LETTERS.

⦿ C. parenthesis -- (...) . ✓

○ D. brackets -- [...].

✗ Find the SQL statement below that is equal to the following: SELECT NAME 0/1
FROM CUSTOMER WHERE STATE =
'VA';

○ A. SELECT NAME IN CUSTOMER WHERE STATE IN ('VA');

⦿ B. SELECT NAME IN CUSTOMER WHERE STATE = 'VA'; ✗

○ C. SELECT NAME IN CUSTOMER WHERE STATE = 'V';

○ D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Correct answer

⦿ D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

✓ The EXISTS keyword will be true if 1/1

○ a) Any row in the subquery meets the condition only. ✓

○ b) All rows in the subquery fail the condition only.

○ c) Both of these two conditions are met.

○ d) Neither of these two conditions is met.

✗ Which of the following can be addressed by enforcing a referential integrity 0/1 constraint?

○ a) All phone numbers must include the area code

● b) Certain fields are required (such as the email address, or phone number) ✗ before the record is accepted

○ c) Information on the customer must be known before anything can be sold to that customer

○ d) When entering an order quantity, the user must input a number and not some text (i.e., 12 rather than 'a dozen')

Correct answer

● c) Information on the customer must be known before anything can be sold to that customer

✓ The relationship between DEPARTMENT and EMPLOYEE is a: 1/1

○ a) One-to-one relationship

○ b) Many-to-many relationship

◉ c) One-to-many relationship   ✓

○ d) Many-to-one relationship

✓ Which of the following query is correct for using comparison operators in   1/1
SQL?

○ A) SELECT sname, coursename FROM studentinfo WHERE age>50 and <80;

◉ B) SELECT sname, coursename FROM studentinfo WHERE age>50 and age <80; ✓

○ C) SELECT sname, coursename FROM studentinfo WHERE age>50 and WHERE age<80;

○ D) None of the above

✓ How to Delete records from studentinfo table with name of student 'Hari Prasad'?   1/1

○ A) DELETE FROM TABLE studentinfo WHERE sname='Hari Prasad';

◉ B) DELETE FROM studentinfo WHERE sname='Hari Prasad';   ✓

○ C) DELETE FROM studentinfo WHERE COLUMN sname='Hari Prasad';

○ D) DELETE FROM studentinfo WHERE sname LIKE 'Hari Prasad';

✗ Which of the following isolation levels doesn't allow non-repeatable reads?   0/1

○ A) Repeatable Reads

○ B) Read Committed

○ C) both

◉ D) none   ✗

Correct answer

◉ C) both

✓ **Which of the following isolation levels doesn't allow phantom reads?** 1/1

○ A) Repeatable Reads

○ B) Read uncommitted

○ C) Read Committed

◉ D) Serializable ✓

✕ **How to select all data from studentinfo table starting the name from letter** 0/1
'r'?

○ A) SELECT * FROM studentinfo WHERE sname LIKE 'r%';

○ B) SELECT * FROM studentinfo WHERE sname LIKE '%r%';

◉ C) SELECT * FROM studentinfo WHERE sname LIKE '%r'; ✕

○ D) SELECT * FROM studentinfo WHERE sname LIKE '_r%';

Correct answer

◉ A) SELECT * FROM studentinfo WHERE sname LIKE 'r%';

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