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CIW v5 Database Design Specialist

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QUESTION 1

Which three pieces of information did E.F. Codd describe as necessary to retrieve a data value from a relational database?

A. Attribute, domain, and tuple

B. Entity, relation name, and domain

C. Table name, primary key, and entity

D. Attribute, relation name, and primary key

Answer: D

QUESTION 2

Which pair of relational algebraic operations requires union compatibility?

A. Union and join

B. Selection and projection

C. Intersection and difference

D. Cartesian product and intersection

Answer: C

QUESTION 3

Which term describes one or more database operations that are executed as a single unit?

A. Update

B. Transaction

C. Encapsulation

D. Operational group

Answer: B

QUESTION 4

Which statement best describes a candidate key?

A. It is the primary key for an entity.

B. It uniquely identifies every instance of an entity.

C. One or more keys are joined together to form a composite key.

D. One or more keys may be used to form a primary key.

Answer: D

QUESTION 5

Your enterprise is developing a database system that will contain highly sensitive data. Security of the data will take priority over database processing speed. Which database protection technique should be employed?

A. Backups

B. User views

C. Encryption

D. Integrity controls

Answer: C

QUESTION 6

The exhibit shows a table called Recreation Relation that relates a unique student identification number and a sports activity with a fee for participating in that activity.The Student_ID and Activity columns in the table are used together as a composite key. Which statement about the relation is correct?

Student_ID	Activity	Activity_Fee
1001	Bowling	50
1001	Racquetball	75
1002	Tennis	100
1003	Handball	35
1003	Swimming	40
1004	Bowling	50
1004	Fencing	125

Recreation Relation

A. Activity_Fee is a determinant of Activity.

B. Activity_Fee is partially dependent on the key.

C. The table contains a transitive dependency.

D. Activity_Fee is a determinant of Activity and Student_ID.

Answer: B

QUESTION 7

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Which of the following best describes the two-tier database architecture?

A. The user accesses a database server using a terminal.

B. The user interface, data-processing logic, database access and data validation functions are performed on a mainframe server.

C. The user interface and data validation functions are performed by the client whereas the data-processing logic is performed on a server.

D. The user interface and data-processing logic are performed by the client whereas the server handles database access and data validation functions.

Answer: D

QUESTION 8

Your enterprise must decide whether to use a database management system. Which of the following best describes the functionality of a DBMS?

A. A DBMS provides the ability to control data access and limit the number of users at one time.

B. A DBMS provides the ability to maintain databases while providing increased security for the database.

C. A DBMS allows users to access the database while allowing the database administrator to define views particular to individual sets of users.

D. A DBMS provides the ability to define, create and maintain databases while providing controlled access to databases.

Answer: D

QUESTION 9

Which concurrency control method should be used only when conflicts between transactions rarely occur?

A. Locking

B. Time stamps

C. Optimistic

D. Serialization

Answer: C

QUESTION 10

Consider the Project relation shown in the exhibit as well as the following SQL statement:

    DELETE FROM Project WHERE Cust_Name = Acme;

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