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CIW v5 Database Design Specialist

CIW 1D0-541

Version Demo

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QUESTION NO: 1

Which subset of Structured Query Language (SQL) is used to limit access to a database or its data?

- A. Data Markup Language
- B. Data Control Language
- C. Data Formatting Language
- D. Data Manipulation Language

ANSWER: B

QUESTION NO: 2

What is the highest normal form of the relation(s) shown in the exhibit?

| Registration_ID | Student_ID | Course_Code | First_Name | Last_Name |
|-----------------|------------|-------------|------------|-----------|
| 1001 | S320 | M3455 | Teri | Chan |
| 1002 | S255 | M3455 | Carlos | Trujillo |
| 1003 | S511 | A4343 | Helen | Yang |
| 1004 | S812 | S4511 | Robert | Cray |
| 1005 | S320 | A4343 | Teri | Chan |
| 1006 | S255 | M4422 | Carlos | Trujillo |
| 1007 | S511 | M4433 | Helen | Yang |
| 1008 | S812 | S2212 | Robert | Cray |

Registration Relation

- A. Second normal form
- B. First normal form
- C. Boyce-Codd normal form
- D. Third normal form
- E. STUDENT(Student_Number: integer NOT NULL Name: variable length character string length 20 NOT NULL)
Primary Key Student_Number CLASS(Class_Num: integer NOT NULL Class_Name: integer NOT NULL) Primary Key Class_Num

F. STUDENT(Student_Number: integer NOT NULL Name: variable length character string length 20 NOT NULL) Primary Key Student_Number CLASS(Class_Num: integer NOT NULL Class_Name: integer NOT NULL) Primary Key Class_Num Foreign Key Class_Num References STUDENT

G. STUDENT(Student_Number: integer NOT NULL Name: variable length character string length 20 NOT NULL) Primary Key Student_Number STU_CLASS(Student_Number: integer NOT NULL Class_Num: integer NOT NULL) Primary Key Student_Number CLASS(Class_Num: integer NOT NULL Class_Name: integer NOT NULL) Primary Key Class_Num

ANSWER: D

QUESTION NO: 3

Consider the following SQL statement and the Orders relation shown in the exhibit:

How many records should be returned?

```
SELECT *  
FROM Orders  
WHERE Order_Date BETWEEN '12/14/01' AND '02/02/02';
```

| Order_No | Order_Date | Customer_No | Sales_Rep_No | Amount |
|----------|------------|-------------|--------------|---------|
| 2001 | 11-04-01 | 1001 | 108 | 24.89 |
| 2004 | 12-14-01 | 1004 | 210 | 126.99 |
| 2006 | 01-14-02 | 1008 | 187 | 1216.69 |
| 2009 | 01-15-02 | 1008 | 350 | 926.89 |
| 2012 | 02-02-02 | 1001 | 108 | 816.09 |
| 2015 | 02-10-02 | 1004 | 210 | 1818.19 |
| 2016 | 02-15-02 | 1006 | 109 | 678.99 |

Orders Relation

- A. Two records
- B. Three records
- C. Four records
- D. Five records

ANSWER: C

QUESTION NO: 4

In which phase of database design do you identify entities, attribute domains, and relationships?

- A. Logical
- B. Physical
- C. Application
- D. Conceptual

ANSWER: D

QUESTION NO: 5

The exhibit shows a table called Activity Relation that relates a unique student identification number with a sports activity and a fee for participating in that activity. A student can participate in only one activity. The key for the relation is Student_ID. What consequence would occur if the tuple for Student_ID 1001 were removed?

Activity Relation

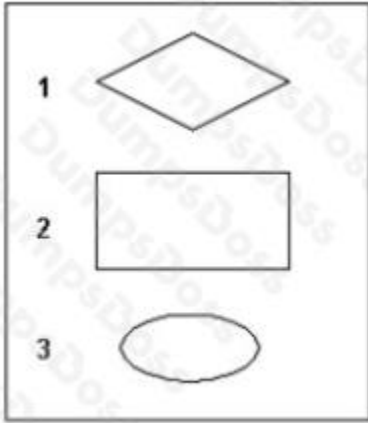
| Student_ID | Activity | Fee |
|------------|-------------|-----|
| 1001 | Bowling | 50 |
| 1002 | Racquetball | 75 |
| 1003 | Tennis | 100 |
| 1004 | Racquetball | 75 |

- A. An update anomaly would occur.
- B. An insertion anomaly would occur.
- C. A deletion anomaly would occur.
- D. Both an insertion anomaly and a deletion anomaly would occur.

ANSWER: C

QUESTION NO: 6

Consider the symbols shown in the exhibit. Which of the following correctly identifies these symbols when used in an entity-relationship (ER) diagram?



- A. 1 = attribute, 2 = entity, 3 = relationship
- B. 1 = entity, 2 = relationship, 3 = attribute
- C. 1 = relationship, 2 = entity, 3 = attribute
- D. 1 = relationship, 2 = attribute, 3 = entity

ANSWER: C

QUESTION NO: 7

Which component in the three-tier database architecture handles the data-processing and business logic?

- A. Thin client
- B. Fat client
- C. Database server
- D. Application server

ANSWER: D

QUESTION NO: 8

What is the highest normal form of the relation(s) shown in the exhibit?

Employee Relation

| Emp_ID | Emp_Name | Dept_ID | Dept_Name | Mngr_ID | Mngr_Name |
|--------|----------|---------|-----------|---------|-----------|
| 001 | Lee | 25 | R & D | 12 | Ames |
| 002 | Smith | 35 | Marketing | 22 | Yee |
| 003 | Perez | 25 | R & D | 12 | Ames |

- A. Third normal form
- B. Second normal form
- C. No normal form
- D. First normal form

ANSWER: D**QUESTION NO: 9**

What is a data dictionary?

- A. A system catalog containing user data
- B. An area of the database that is directly accessible by the user
- C. Data that is stored in tables and is only accessible by the DBMS
- D. Metadata that is stored in tables and is only accessible by the DBMS

ANSWER: D**QUESTION NO: 10**

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