# 1D0-541 Q&As

CIW V5 Database Design Specialist

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**QUESTION 1**

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

Correct Answer: A

**QUESTION 2**

Consider the table for an employee database shown in the exhibit. What is the cardinality of the table?

| Emp_ID | First_Name | Last_Name | SSN | Birth_Date |
|---|---|---|---|---|
| 0001 | Helen | Lee | 001-01-6001 | 12-05-75 |
| 0002 | James | Smith | 002-12-7002 | 10-25-76 |
| 0003 | Eliza | Perez | 003-21-9003 | 02-15-80 |
| 0004 | Samuel | Hayes | 004-04-1004 | 11-07-71 |

**Employee Relation**

B. 20

C. 4

D. 25

Correct Answer: C

**QUESTION 3**

Consider the Registration relation shown in the exhibit. Which of the following SQL statements would return all tuples that have course codes beginning with the letter M?

| 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. SELECT * FROM Registration WHERE Course_Code = M#;

B. SELECT * FROM Registration WHERE Course_Code LIKE M_;

C. SELECT * FROM Registration WHERE Course_Code LIKE M%;

D. SELECT * FROM Registration WHERE Course_Code = M%;

Correct Answer: C

**QUESTION 4**

In which situation would the DBMS use a serial schedule to execute the transactions?

A. Concurrent transactions read data from the same data structure.

B. Concurrent transactions write data to different data structures.

C. Concurrent transactions read or write the same data structure.

D. Concurrent transactions read or write from different data structures.

Correct Answer: C

**QUESTION 5**

Consider the relation shown in the exhibit. Which of the following SQL statements would properly add information for a new employee?

| Emp_ID | First_Name | Last_Name | Birth_Date |
|--------|-----------|-----------|-----------|
| 0001 | Helen | Lee | 12-05-75 |
| 0002 | James | Smith | 10-25-76 |
| 0003 | Eliza | Perez | 02-15-80 |
| 0004 | Samuel | Hayes | 11-07-71 |

**Employee Relation**

A. INSERT INTO Employee VALUES(0005, Tim, Bogart, 03-15-77);

B. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0004, Tim, Bogart, 03-15-77);

C. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0005, Tim, Bogart, 03-05-77);

D. INSERT INTO Employee(Emp_ID, First_Name, Last_Name, Birth_Date) VALUES(0005, Tim, Bogart, 03-05-77);

Correct Answer: D

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