## $1 D 0-541^{\text {Q\&As }}$

CIW V5 Database Design Specialist

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## QUESTION 1

The exhibit shows a table called Housing Relation. This table relates a unique student identification number with a dormitory building and a room fee for that building. The key for the Housing Relation is Student_ID. If each building charges only one fee and a student can live in only one building, then this table is in which normal form?

| Student_ID | Building | Fee |
| :--- | :--- | :--- |
| 1001 | Espalade | 400 |
| 1002 | Remington | 550 |
| 1003 | Gardener | 450 |
| 1004 | Regents | 700 |
| 1005 | Delaforte | 550 |

Heusing Relation
A. 1 NF
B. 1 NF and 2 NF
C. 1NF, 2NF, and 3NF
D. 1NF, 2NF, 3NF, and BCNF

Correct Answer: B

## QUESTION 2

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

A. 25
B. 5
C. 4
D. 20

Correct Answer: B

## QUESTION 3

Consider the entity-relation (ER) diagram shown in the exhibit. When the logical database design phase is completed, which of the following is a valid DBDL description of the base relations for the ER diagram?

A. 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
B. 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
C. 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
D. 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 CLASSS( Class_Num: integer NOT NULL Class_Name: integer NOT NULL) Primary Key Class_Num

Correct Answer: D

## QUESTION 4

Which term describes the rejoining of relations that have been decomposed?
A. Normalization
B. Denormalization
C. Referential integrity
D. Domain constraints

Correct Answer: B

## QUESTION 5

Your enterprise is creating a relation (shown in the exhibit) that tracks parts and suppliers. Which situation would occur if new supplier information were entered in the relation before any information about specific parts?

| Part_ID | Part_Name | Description | Supp_Name | Supp_Addr | Supp_City | Supp_State |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0 3 1 2}$ | bolt | hexagon bolt | Adams Bolt | 12 Oak St | Ames | IA |
| $\mathbf{0 3 2 2}$ | screw | capscrew | Huan Supply | 22 Elm St | Ames | IA |
| $\mathbf{0 3 3 2}$ | socket screw | button head | Huan Supply | 22 Elm St | Ames | IA |

## Parts Relation

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

Correct Answer: B

