



# 1D0-541<sup>Q&As</sup>

CIW V5 Database Design Specialist

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### QUESTION 1

Consider the following relation definitions: STUDENT( Student\_Number: integer NOT NULL Name: variable length character string length 20 ) Primary Key Student\_Number HOUSING( Housing\_ID: integer NOT NULL Student\_Number: integer NOT NULL Building: variable length character string length 25 ) Primary Key Housing\_ID Foreign Key Student\_Number References STUDENT(Student\_Number) ON DELETE NO ACTION ON UPDATE CASCADE

What are the referential constraints for the relations defined in these relation definitions?

- A. There is no relationship between changes in STUDENT(Student\_Number) and HOUSING (Student\_Number).
- B. When STUDENT(Student\_Number) is changed or deleted, this modification or deletion will automatically be reflected in HOUSING(Student\_Number).
- C. Modifications to HOUSING(Student\_Number) are automatically reflected in changes to STUDENT (Student\_Number), but deletions are not permitted.
- D. Modifications to STUDENT(Student\_Number) are automatically reflected in changes to HOUSING (Student\_Number). For a deletion to occur from STUDENT(Student\_Number), it must first occur in HOUSING(Student\_Number).

Correct Answer: D

### QUESTION 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

Correct Answer: A



### QUESTION 3

Which of the following is a characteristic of the three-tier database architecture?

- A. A Web browser is used as the application server.
- B. The application logic is centralized on a dedicated server.
- C. A thick client is used to perform business application logic functions locally.
- D. Database application logic and database functionality are integrated and reside on a common server.

Correct Answer: B

### QUESTION 4

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

**Housing Relation**

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

Correct Answer: B

### QUESTION 5

Which security technique limits access by unauthorized users to parts of an enterprise database?

- A. Views
- B. Concurrency
- C. Locking



D. Integrity controls

Correct Answer: A

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