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CIW V5 Database Design Specialist

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QUESTION 1

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?

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

Activity Relation

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.

Correct Answer: C

QUESTION 2

Which of the following best describes the ON DELETE CASCADE referential integrity constraint?

A. If a parent key is deleted, any child keys referenced by the parent key are automatically deleted.

B. If any child key references a parent key, the record containing the parent key cannot be deleted.

C. If a parent key is deleted, all child keys are automatically set to a specified value.

D. If a parent key is deleted, no test is made for referential integrity.

Correct Answer: A

QUESTION 3

Which of the following ACID properties requires that a transaction be executed in its entirety or not all?

A. Durability

B. Consistency

C. Isolation

D. Atomicity

Correct Answer: D

QUESTION 4

Consider the Dept1_Parts and Dept2_Parts relations shown in the exhibit. Which of the following SQL statements would create an intersection of the two relations with the widest variety of Structured Query Language dialects?

Part_ID	Part_Name	Description	Supp_ID
0312	bolt	hexagon bolt	221
0322	screw	capscrew	441
0332	socket screw	button head	551
0342	flange	blind flange	331
0352	socket screw	countersunk	441

Dept1_Parts Relation

Part_ID	Part_Name	Description	Supp_ID
0302	flange	slip-on flange	331
0322	screw	capscrew	441
0332	socket screw	button head	551
0362	bolt	studbolt	441

Dept2_Parts Relation

A. SELECT * FROM Dept1_Parts AND (SELECT * FROM Dept2_Parts);

B. SELECT * FROM Dept1_Parts INTERSECTION (SELECT * FROM Dept2_Parts);

C. SELECT * FROM Dept1_Parts WHERE Dept1_Parts.Part_ID = Dept2_Parts.Part_ID;

D. SELECT * FROM Dept1_Parts WHERE Dept1_Parts.Part_ID = Dept2_Parts.Part_ID;

Correct Answer: D

QUESTION 5

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

Correct Answer: D