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QUESTION 1

Consider the following relational algebraic expression as well as the Dept1_Parts and Dept2_Parts relations shown in the exhibit:

$$Dept1\_Parts - \pi_{Part\_ID} (Dept2\_Parts)$$

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

Which of the following relations would result from the given relational algebraic expression?

A.

Part_ID	Part_Name	Description	Supp_ID
0302	flange	slip-on flange	331
0362	bolt	studbolt	441

B.

Part_ID	Part_Name	Description	Supp_ID
0322	screw	capscrew	441
0332	socket screw	button head	551

C.

Part_ID	Part_Name	Description	Supp_ID
0312	bolt	hexagon bolt	221
0342	flange	blind flange	331
0352	socket screw	countersunk	441

D.

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

A. B. C. D.

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Correct Answer: C

QUESTION 2

Which area of database security involves maintaining access to enterprise data?

A. Integrity

B. Privacy

C. Availability

D. Confidentiality

Correct Answer: C

QUESTION 3

Which term describes the management of simultaneous transactions to prevent conflicts?

A. Parallelism

B. Serialization

C. Database control

D. Concurrency control

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 a set difference 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 EXCEPT (SELECT Part_ID FROM Dept2_Parts);

B. SELECT * FROM Dept1_Parts MINUS (SELECT Part_ID FROM Dept2_Parts);

C. SELECT * FROM Dept1_Parts DIFFERENCE (SELECT Part_ID FROM Dept2_Parts);

D. SELECT * FROM Dept1_Parts DIFFERENCE (SELECT Part_ID

FROM Dept2_Parts);

Correct Answer: D

QUESTION 5

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

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