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CIW V5 Database Design Specialist

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QUESTION 1

Consider the following table as well as the Dept1_Parts and Dept2_Parts relations shown in the exhibit:

Dept1_Parts − π_{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 relational algebraic expressions would result in the given table?

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

A. Dept1_Parts ∪ Dept2_Parts

B. Dept2_Parts − Dept1_Parts

C. Dept1_Parts ∩ Dept2_Parts

D. Dept1_Parts X Dept2_Parts

A. B. C. D.

Correct Answer: A

QUESTION 2

Which of the following best describes the information contained in the data dictionary (or system catalog)?

A. Metadata

B. Data model

C. Table data

D. Metafile

Correct Answer: A

QUESTION 3

For the Employee relation shown in the exhibit, which set of column values holds the complete tuple for the employee named James Smith?

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. 0002, James, Smith

B. 0002, James, Smith, 10-25-76

C. First_Name, James, Last_Name, Smith

D. Emp_ID, 0002, First_Name, James, Last_Name, Smith

Correct Answer: B

QUESTION 4

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 5

Consider the Orders relation shown in the exhibit. Which of the following SQL statements would return all complete tuples for order dates in 2002, arranged by amount from lowest to highest?

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2001	11-04-01	1001	108	24.89
2004	12-14-01	1004	210	126.99
2006	01-14-02	1008	187	1216.69
2009	01-15-02	1008	350	926.89
2012	02-02-02	1001	108	816.09
2015	02-10-02	1004	210	1818.19
2016	02-15-02	1006	109	678.99

Orders Relation

A. SELECT * FROM Orders WHERE Order_Date LIKE _02 ORDER BY Amount;

B. SELECT (Order_Date, Amount) FROM Orders WHERE Order_Date LIKE %02 ORDER BY Amount;

C. SELECT * FROM Orders WHERE Order_Date LIKE _02 ORDER BY Order_No;

D. SELECT * FROM Orders WHERE Order_Date LIKE %02 ORDER BY Amount;

Correct Answer: D