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CIW V5 Database Design Specialist

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QUESTION 1

Consider the following relational algebraic expression:

Which of the following SQL statements is equivalent to this relational algebraic expression?

A. SELECT Sales_Rep_No(108) FROM Orders;

B. INSERT INTO Orders VALUES(Sales_Rep_No = 108) WHERE Sales_Rep_No = NULL;

C. SELECT * FROM Orders WHERE Sales_Rep_No = 108;

D. SELECT * FROM Orders WHERE Sales_Rep_No = 108;

Correct Answer: C

QUESTION 2

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 3

Which pair of relational algebraic operations requires union compatibility?

A. Projection and Cartesian product

B. Selection and projection

C. Intersection and difference

D. Cartesian product and intersection

Correct Answer: C

QUESTION 4

The exhibit shows a table called Recreation Relation that relates a unique student identification number and a sports activity with a fee for participating in that activity. The Student_ID and Activity columns in the table are used together as a composite key. Which statement about the relation is correct?

Student_ID	Activity	Activity_Fee
1001	Bowling	50
1001	Racquetball	75
1002	Tennis	100
1003	Handball	35
1003	Swimming	40
1004	Bowling	50
1004	Fencing	125

Recreation Relation

A. Activity_Fee is a determinant of Activity.

B. Activity_Fee is partially dependent on the primary key.

C. The table contains a transitive dependency.

D. Activity_Fee is a determinant of Activity and Student_ID.

Correct Answer: B

QUESTION 5

A. A set of normalized relations

B. A reviewed entity-relationship (ER) model

C. An entity-relationship (ER) model with no redundant data

D. A set of denormalized relations

Correct Answer: B

QUESTION 6

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
0312	bolt	hexagon bolt	Adams Bolt	12 Oak St	Ames	IA
0322	screw	capscrew	Huan Supply	22 Elm St	Ames	IA
0332	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

QUESTION 7

Consider the following SQL statement and the Orders relation shown in the exhibit:

```
SELECT *
FROM Orders
WHERE Order_Date BETWEEN '12/14/01' AND '02/02/02';
```

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

How many records should be returned?

A. Two records

B. Three records

C. Four records

D. Five records

Correct Answer: C

QUESTION 8

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

QUESTION 9

A relation for a construction company is shown in the exhibit. Which of the following best defines the relationship between Cust_ID and Cust_Name?

Cust_ID	Proj_ID	Cust_Name	Proj_Description	Status	Manager
1001	98-01	Acme	Reflow Study	Done	Rubio
1002	98-11	J & L	Quality Analysis	Start	Chang
1001	99-02	Acme	Process Analysis	Done	Jones
1003	99-12	Bravo Co	Efficiency Study	Start	Doe

Project Relation

A. Cust_Name is the determinant.

B. Cust_Name is transitively dependent on Cust_ID.

C. Cust_ID is transitively dependent on Cust_Name.

D. Cust_Name is functionally dependent on Cust_ID.

Correct Answer: D

QUESTION 10

Consider the Recreation relation shown in the exhibit. You need to apply a SQL statement to the

Recreation relation that will return the following data:

Student_ID	Activity	Activity_Fee
1001	Bowling	50
1001	Racquetball	75
1002	Bowling	50
1003	Handball	35
1003	Racquetball	75
1004	Bowling	50
1004	Fencing	125

Recreation Relation

Bowling
Fencing
Handball
Racquetball

Which SQL statement applied to the Recreation relation will return this data?

A. SELECT Activity FROM Recreation;

B. SELECT DISTINCT Activity FROM Recreation;

C. SELECT Activity FROM Recreation WHERE NOT LIKE Activity;

D. SELECT Activity FROM Recreation WHERE DISTINCT Activity;

Correct Answer: B

QUESTION 11

Consider the following SQL statement and the Orders relation shown in the exhibit:

```
SELECT *
FROM Orders
WHERE NOT Amount < 1000
AND Sales_Rep_No = 210;
```

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

What is the output of this SQL statement?

A.

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2006	01/14/02	1008	187	1216.69

B.

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2004	12/14/01	1004	210	126.99

C.

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2015	02/10-02	1004	210	1818.19

D.

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2001	11/04/01	1001	108	24.89
2009	01/15/02	1008	350	926.89
2012	02/02/02	1001	108	816.09
2016	02/15/02	1006	109	678.99

A. B. C. D.

Correct Answer: C

QUESTION 12

What is the highest normal form of the relation(s) shown in the exhibit?

Cust_No	Cust_Name	Sales_Rep_No
011	MicroWidget	1350
012	MacroWidget	7403
013	Xyz Corp	2457
014	DayCo	8957

Customer Relation

Sales_Rep_Name	Sales_Rep_No
Jane Lee	1350
Henry Butler	7403
Corey Harris	2457
Elena Perez	8957

Sales_Rep Relation

A. No normal form

B. Second normal form

C. First normal form

D. Third normal form

Correct Answer: D

QUESTION 13

Your enterprise is developing a database system that will contain highly sensitive data; Security of the data will take priority over database processing speed. Which database protection technique should be employed?

A. Backups

B. User views

C. Encryption

D. Integrity controls

Correct Answer: C

QUESTION 14

What is the highest normal form of the relation(s) shown in the exhibit?

Emp_ID	Emp_Name	Dept_ID	Dept_Name	Mngr_ID	Mngr_Name
001	Lee	25	R & D	12	Ames
002	Smith	35	Marketing	22	Yee
003	Perez	25	R & D	12	Ames

Employee Relation

A. Third normal form

B. Second normal form

C. Boyce-Codd normal form

D. First normal form

Correct Answer: D

QUESTION 15

Which component in the three-tier database architecture handles the data-processing and business logic?

A. Thin client

B. Fat client

C. Database server

D. Application server

Correct Answer: D

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