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QUESTION 1

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 2

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?



| Order_No | Order_Date | Customer_No | Sales_Rep_No | Amount |
|----------|------------|-------------|--------------|---------|
| 2006 | 01-14-02 | 1008 | 187 | 1216.69 |
| 2015 | 02-10-02 | 1004 | 210 | 1818.19 |
| 2012 | 02/02/02 | 1001 | 108 | 816.09 |
| 2016 | 02/15/02 | 1006 | 109 | 678.99 |

A.

| Order_No | Order_Date | Customer_No | Sales_Rep_No | Amount |
|----------|------------|-------------|--------------|---------|
| 2006 | 01-14-02 | 1008 | 187 | 1216.69 |
| 2015 | 02-10-02 | 1004 | 210 | 1818.19 |
| 2012 | 02/02/02 | 1001 | 108 | 816.09 |
| 2016 | 02/15/02 | 1006 | 109 | 678.99 |

B.

| Order_No | Order_Date | Customer_No | Sales_Rep_No | Amount |
|----------|------------|-------------|--------------|---------|
| 2004 | 12-14-01 | 1004 | 210 | 126.99 |
| 2015 | 02-10-02 | 1004 | 210 | 1818.19 |
| 2012 | 02/02/02 | 1001 | 108 | 816.09 |
| 2016 | 02/15/02 | 1006 | 109 | 678.99 |

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 |
| 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 |

A. B. C. D.

Correct Answer: D

QUESTION 3

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

QUESTION 4



Consider the following relations shown in the exhibit. Which of the following SQL statements would return the Customers2 relation from the Customers relation?

| Cust_No | Cust_Name | Satisfaction_Rate | Sales_Office | Sales_Rep_No |
|---------|-------------|-------------------|--------------|--------------|
| 1011 | MicroWidget | 75 | Atlanta | 1350 |
| 1012 | MacroWidget | 90 | New York | 7403 |
| 1013 | Xyz Corp | 78 | Los Angeles | 2457 |
| 1014 | DayCo | 95 | Atlanta | 1350 |
| 1015 | DigiTech | 85 | Chicago | 3303 |
| 1016 | DataTech | 92 | Los Angeles | 2457 |
| 1017 | UniSort | 81 | New York | 7403 |

Customers Relation

| | | | | |
|------|----------|----|----------|------|
| 1015 | DigiTech | 85 | Chicago | 3303 |
| 1017 | UniSort | 81 | New York | 7403 |

Customers2 Relation

- A. SELECT * FROM Customers WHERE Satisfaction_Rate = 90;
- B. SELECT * FROM Customers WHERE Satisfaction_Rate IN (80 AND 90);
- C. SELECT * FROM Customers WHERE Satisfaction_Rate >= 80 AND Satisfaction_Rate