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# Question 1

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## Question Type: MultipleChoice

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Consider the following table as well as the Dept1\_Parts and Dept2\_Parts relations shown in the exhibit:

Dept1\_Parts  $\pi_{Part_ID}(\text{Dept2\_Parts})$

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

Options:

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**A-** Option A

Dept1\_Parts X Dept2\_Parts

**B-** Option B

Dept1\_Parts X Dept2\_Parts

**C-** Option C

Dept1\_Parts X Dept2\_Parts

**D-** Option D

Dept1\_Parts X Dept2\_Parts

**Answer:**

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A

## Question 2

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**Question Type:** MultipleChoice

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

**Options:**

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- A- Parallelism
- B- Serialization
- C- Database control
- D- Concurrency control

**Answer:**

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D

## Question 3

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**Question Type: MultipleChoice**

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Using the Customer and Sales\_Rep relations shown in the exhibit, you must determine a relational

Cust_No	Cust_Name	Sales_Rep_No	Sales_Rep_Name	Sales_Rep_No1
011	MicroWidget	1350	Jane Lee	1350
011	MicroWidget	1350	Henry Butler	7403
011	MicroWidget	1350	Corey Harris	2457
011	MicroWidget	1350	Elena Perez	8957
012	MacroWidget	7403	Jane Lee	1350
012	MacroWidget	7403	Henry Butler	7403
012	MacroWidget	7403	Corey Harris	2457
012	MacroWidget	7403	Elena Perez	8957
013	Xyz Corp	2457	Jane Lee	1350
013	Xyz Corp	2457	Henry Butler	7403
013	Xyz Corp	2457	Corey Harris	2457
013	Xyz Corp	2457	Elena Perez	8957
014	DayCo	8957	Jane Lee	1350
014	DayCo	8957	Henry Butler	7403
014	DayCo	8957	Corey Harris	2457
014	DayCo	8957	Elena Perez	8957

algebraic expression that will result in the following relation:

Which of the following relational algebraic expressions would result in this relation?

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

## Options:

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### A- Option A

$\sigma_{\text{Customer Sales\_Rep\_No} = \text{Sales Sales\_Rep\_No}} (\text{Customer X Sales\_Rep})$

### B- Option B

$\sigma_{\text{Customer Sales\_Rep\_No} = \text{Sales Sales\_Rep\_No}} (\text{Customer X Sales\_Rep})$

### C- Option C

$\sigma_{\text{Customer Sales\_Rep\_No} = \text{Sales Sales\_Rep\_No}} (\text{Customer X Sales\_Rep})$

### D- Option D

$\sigma_{\text{Customer Sales\_Rep\_No} = \text{Sales Sales\_Rep\_No}} (\text{Customer X Sales\_Rep})$

## Answer:

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A

## Question 4

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**Question Type:** MultipleChoice

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Consider the relations shown in the exhibit. Due to restructuring, the sales department has

been eliminated and the employees working in that department have been dismissed. All ID information is stored as integers. Which SQL statement would be used to return a relation with all information for the employees who have been dismissed?

ID	Last_Name	First_Name	Birth_Date	Dept_ID
0001	Vargas	Jose	09-15-70	032
0002	Jones	Elisa	12-12-55	042
0003	Chu	Helen	04-14-75	032
0004	Day	Danny	06-12-65	022

Employee Relation

Dept_ID	Dept_Name	Dept_Mngr	Dept_Ext
022	Sales	Reyes, Nancy	5432
032	Accounting	Yee, Cindy	1223
042	Finance	Ames, Joe	4675

Department Relation

### Options:

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**A-** SELECT \*

FROM Employee;

**B-** SELECT ID, Last\_Name

FROM Employee;

WHERE ID = 0004;

**C-** SELECT \*

FROM Employee

WHERE Dept\_ID = 022;

```
D- SELECT *  
FROM Employee  
WHERE Dept_ID = 022;
```

**Answer:**

---

C

## Question 5

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**Question Type:** MultipleChoice

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Which of the following best describes the ON DELETE NO ACTION referential integrity constraint?

**Options:**

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- A-** If a parent key is deleted, any child keys referenced by the parent key are automatically deleted.
- B-** If a parent key is deleted, no test is made for referential integrity.
- C-** If any child key references a parent key, the record containing the parent key cannot be deleted.



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

**Answer:**

---

C

## Question 6

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**Question Type:** MultipleChoice

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Consider the table shown in the exhibit. Which relational algebraic operation would return

Row 3?

Student_ID	Name	Major
1001	Chang	Mathematics
1002	Jones	Business
1003	Perez	Comp_Sci
1004	Nguyen	History
1005	Smith	Eng_Lit

Student\_Major Relation

1003	Perez	Comp_Sci
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**Options:**

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- A- Union
- B- Selection
- C- Projection
- D- Difference

**Answer:**

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B

## Question 7

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**Question Type:** MultipleChoice

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A large enterprise uses a two-tier database architecture and runs complex database processing on the client. Which term best describes the client in this system?

**Options:**

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- A- Fat client

- B- Thin client
- C- Terminal client
- D- Enterprise client

**Answer:**

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A

## Question 8

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**Question Type:** MultipleChoice

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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

### Options:

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- 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.

### Answer:

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D

## Question 9

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### Question Type: MultipleChoice

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Consider the Stu\_Act and Act\_Fee tables shown in the exhibit. Which relational algebraic operation would yield the Activity Relation table in the exhibit?

Student_ID	Activity
1001	Bowling
1002	Racquetball
1003	Tennis
1004	Racquetball

Stu\_Act Relation

Activity	Fee
Bowling	50
Racquetball	75
Tennis	100

Act\_Fee Relation

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

Activity Relation

### Options:

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- A- Union
- B- Intersection
- C- Natural join
- D- Cartesian product

### Answer:

---

C

# Question 10

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Question Type: MultipleChoice

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Consider the Project relation shown in the exhibit as well as the following SQL statement:

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

DELETE FROM Project

WHERE Cust\_Name = Acme;

Which of the following tables shows the Project relation after execution of this SQL statement?

## Options:

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A- Option A

Cust_ID	Proj_ID	Cust_Name	Proj_Description	Status	Manager
1002	98-11	J & L	Quality Analysis	Start	Chang

B- Option B

Cust_ID	Proj_ID	Cust_Name	Proj_Description	Status	Manager
1002	98-11	J & L	Quality Analysis	Start	Chang

**C-** Option C

Cust_ID	Proj_ID	Cust_Name	Proj_Description	Status	Manager
1002	98-11	J & L	Quality Analysis	Start	Chang

**D-** Option D

Cust_ID	Proj_ID	Cust_Name	Proj_Description	Status	Manager
1002	98-11	J & L	Quality Analysis	Start	Chang

**Answer:**

---

A

## Question 11

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**Question Type:** MultipleChoice

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Which of the following best describes a composite key?

**Options:**

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**A-** A composite key is a primary key and foreign key that consists of the first two attributes of a relation.

- B-** A composite key is a primary or foreign key defined by its parent key attributes.
- C-** A composite key is a foreign key that consists of the same attributes as the primary key from a related table.
- D-** A composite key is a primary or foreign key that consists of two or more attributes of a relation.

**Answer:**

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D



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