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Question 1

Question Type: MultipleChoice

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?

Options:

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).

Answer:

D

Question 2

Question Type: MultipleChoice

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?

Options:

A- Option A

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

B- Option B

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

C- Option C

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

D- Option 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

Answer:

C

Question 3

Question Type: **MultipleChoice**

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

Options:

A- Metadata

B- Data model

C- Table data

D- Metafile

Answer:

A

Question 4

Question Type: MultipleChoice

Consider the Information Engineering diagram in the exhibit showing a conceptual data model of the relations BUILDING and RESIDENT. What is the next step in refining the data model?

Options:

A- Create intermediate entities.

B- Create a logical data model.

C- Resolve many-to-many relationahips.

D- Identify and resolve complex relationships.

Answer:

B

Question 5

Question Type: **MultipleChoice**

Which process is used to prevent the current database operation from reading or writing a data

item while that data item is being accessed by another operation?

Options:

A- Lock

B- Deadlock

C- Timestamp

D- Batch

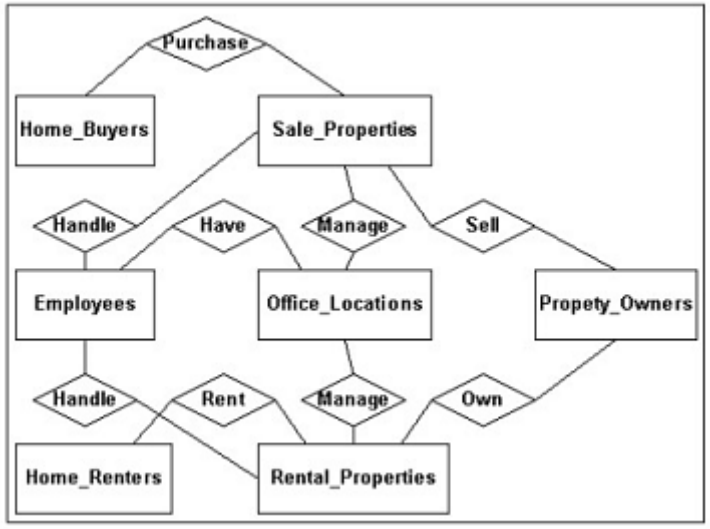
Answer:

A

Question 6

Question Type: MultipleChoice

Your enterprise is involved in planning a database project. The exhibit shows the result of one phase of the database design life cycle. Which term best describes the diagram shown in the exhibit?



Options:

A- Information Engineering (IE) data model

B- Corporate data model

C- Database requirements model

D- Entity Relation Data (ERD) model

Answer:

B

Question 7

Question Type: MultipleChoice

Consider the following four database design activities:

1 - Design user views.

2 - Select a DBMS.

3 - Apply normalization.

4 - Determine entities.

Which choice shows the correct ordering of these activities, from first to last, by assigned

numbers?

Options:

A- 1, 2, 3, 4

B- 3, 4, 1, 2

C- 4, 1, 3, 2

D- 4, 2, 3, 1

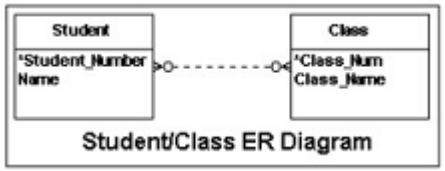
Answer:

D

Question 8

Question Type: MultipleChoice

Consider the entity-relation (ER) diagram shown in the exhibit. When the logical database design phase is completed, which of the following is a valid DBDL description of the base relations for the ER diagram?



Options:

A- STUDENT(
Student_Number: integer NOT NULL
Name: variable length character string length 20 NOT NULL)

Primary Key Student_Number
CLASS(
Class_Num: integer NOT NULL
Class_Name: integer NOT NULL)
Primary Key Class_Num

B- STUDENT(
Student_Number: integer NOT NULL
Name: variable length character string length 20 NOT NULL)
Primary Key Student_Number
CLASS(
Class_Num: integer NOT NULL
Class_Name: integer NOT NULL)
Primary Key Class_Num
Foreign Key Class_Num References STUDENT

C- STUDENT(
Student_Number: integer NOT NULL
Name: variable length character string length 20 NOT NULL)
Primary Key Student_Number
STU_CLASS(
Student_Number: integer NOT NULL
Class_Num: integer NOT NULL)
Primary Key Student_Number
CLASS(
Class_Num: integer NOT NULL
Class_Name: integer NOT NULL)

Primary Key Class_Num

D- STUDENT(
Student_Number: integer NOT NULL
Name: variable length character string length 20 NOT NULL)
Primary Key Student_Number
STU_CLASS(
Student_Number: integer NOT NULL
Class_Num: integer NOT NULL)
Primary Key Student_Number
CLASS(
Class_Num: integer NOT NULL
Class_Name: integer NOT NULL)
Primary Key Class_Num

Answer:

D

Question 9

Question Type: MultipleChoice

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?

Options:

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).

Answer:

D

Question 10

Question Type: MultipleChoice

Using the Customer and Sales_Rep relations shown in the exhibit, you must datermine 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:

A- Option A

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

B- Option B

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

C- Option C

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

D- Option D

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

Answer:

A

Question 11

Question Type: **MultipleChoice**

Which process is used to prevent the current database operation from reading or writing a data

item while that data item is being accessed by another operation?

Options:

A- Lock

B- Deadlock

C- Timestamp

D- Batch

Answer:

A