1D0-541^{Q&As}

CIW V5 Database Design Specialist

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QUESTION 1

Which statement accurately describes a characteristic of attributes?

A. The ordering of attributes in a table is significant.

B. An attribute contains values from multiple domains.

C. An attribute name can be used only once per table.

D. An attribute name can be used only once in a relational database system with multiple tables.

Correct Answer: C

QUESTION 2

The exhibit shows a table called Activity Relation that relates a unique student identification number with a sports activity and a fee for participating in that activity. A student can participate in only one activity. The key for the relation is Student_ID. What consequence would occur if the tuple for Student_ID 1001 were removed?

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

Activity Relation

A. An update anomaly would occur.

B. An insertion anomaly would occur.

C. A deletion anomaly would occur.

D. Both an insertion anomaly and a deletion anomaly would occur.

Correct Answer: C

QUESTION 3

Consider the following relation definition: STUDENT(Student_Number: integer NOT NULL Name: variable length character string length 20 NOT NULL) Primary Key Student_Number HOUSING(Housing_ID: integer NOT NULL Student_Number: integer NOT NULL Building: variable length character string length 25 NOT NULL) Primary Key Housing_ID Foreign Key Student_Number References STUDENT(Student_Number) ON DELETE NO CHECK

ON UPDATE

Which integrity constraint is violated in this relation definition?

A. Entity integrity

B. Domain constraint

C. Referential integrity

D. Enterprise constraint

Correct Answer: C

QUESTION 4

Which mechanism provides database users with controlled access to the database through the use of virtual tables?

A. View

B. Data dictionary

C. Database control language

D. Database management system

Correct Answer: A

QUESTION 5

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

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C. First normal form

D. Third normal form

Correct Answer: D

QUESTION 6

Which relational algebraic operation is used to select specific columns (attributes) from a relation?

A. Union

B. Difference

C. Projection

D. Intersection

Correct Answer: C

QUESTION 7

Consider the table for an employee database shown in the exhibit. What is the cardinality of the table?

Emp_ID	First_Name	Last_Name	SSN	Birth_Date
0001	Helen	Lee	001-01-6001	12-05-75
0002	James	Smith	002-12-7002	10-25-76
0003	Eliza	Perez	003-21-9003	02-15-80
0004	Samuel	Hayes	004-04-1004	11-07-71

Employee Relation

B. 20

C. 4

D. 25

Correct Answer: C

QUESTION 8

Which type of entity must reference another entity for its data to be meaningful?

A. Weak

B. Strong

C. Foreign

D. Primary

Correct Answer: A

QUESTION 9

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 10

Consider the Employee relation shown in the exhibit. A database manager wants to set up a view called

Emp_Dept that allows users to find employees and their department ID numbers.

Which SQL statement will accomplish this?

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

A. CREATE VIEW Emp_Dept AS SELECT Last_Name, First_Name, Dept_ID FROM Employee;

B. UPDATE VIEW Emp_Dept AS SELECT * FROM Employee;

C. UPDATE VIEW Emp_Dept AS SELECT Last_Name, First_Name, Dept_ID FROM Employee;

D. CREATE VIEW Emp_Dept AS SELECT * FROM Employee WHERE ID = 0001 AND ID = 0002 AND ID = 0003 AND ID = 0004;

Correct Answer: A

QUESTION 11

Your company must choose which type of database to use for a new project. Which of the following lists three characteristics of file-based database systems?

A. Repetition of data, application program flexibility, and data centralization

B. Incompatibility of files, tabular data structures, and data dependence

C. Separation of data, repetition of data, and data independence

D. Application program inflexibility, data dependence, and separation of data

Correct Answer: D

QUESTION 12

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

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QUESTION 13

Consider the Dept1_Parts and Dept2_Parts relations shown in the exhibit. Which of the following SQL statements would create an intersection of the two relations with the widest variety of Structured Query Language dialects?

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

A. SELECT * FROM Dept1_Parts AND (SELECT * FROM Dept2_Parts);

B. SELECT * FROM Dept1_Parts INTERSECTION (SELECT * FROM Dept2_Parts);

C. SELECT * FROM Dept1_Parts WHERE Dept1_Parts.Part_ID = Dept2_Parts.Part_ID;

D. SELECT * FROM Dept1_Parts WHERE Dept1_Parts.Part_ID = Dept2_Parts.Part_ID;

Correct Answer: D

QUESTION 14

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 15

Which three pieces of information did E. F. Codd describe as necessary to retrieve a data value from a relational database?

A. Attribute, domain, and tuple

B. Entity, relation name, and domain

C. Table name, primary key, and entity

D. Attribute, relation name, and primary key

Correct Answer: D

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