

1D0-541^{Q&As}

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QUESTION 1

What is a virtual table?

- A. A virtual table is a relation created as the result of data manipulation, and is not a permanent part of the database.
- B. A virtual table is a relation stored in the databases memory; it is used when multiple users access the same relation in a database.
- C. A virtual table is a relation created from a defined base table; it contains metadata about the base relation.
- D. A virtual table is a relation that consists of primary and foreign keys for a particular set of relations in a database.

Correct Answer: A

QUESTION 2

The database manager wants to give Rubio and Doe the ability to modify the Project Relation shown in the exhibit. A temporary employee named Temp needs to access the data in the database to generate reports. Which group of SQL statements will perform this task?

| 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. GRANT UPDATE ON Project TO Rubio, Doe; GRANT SELECT ON Project TO Temp;
- B. GRANT ALL PRIVILEGES ON Project TO Rubio, Doe; GRANT UPDATE ON Project TO Temp;
- C. GRANT SELECT ON Project WHERE Manager = '\\Rubio\\'; GRANT SELECT ON Project WHERE Manager = '\\Doe\\';
- D. GRANT UPDATE ON Project WHERE Manager = '\\Rubio\\'; GRANT UPDATE ON Project WHERE Manager = '\\Doe\\'; GRANT SELECT ON Project TO Temp;

Correct Answer: A

QUESTION 3

Consider the relational database shown in the exhibit. What is the foreign key in this database?

| 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. Employee.Dept_ID
- B. Dept_Mngr
- C. Dept_Name
- D. Department.Dept_ID

Correct Answer: A

QUESTION 4

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 5

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

- 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.

Correct Answer: C

QUESTION 6

Consider the Registration relation shown in the exhibit. Which of the following SQL statements would return the Registration2 relation from the Registration relation?

| Registration_ID | Student_ID | Course_Code | First_Name | Last_Name |
|-----------------|------------|-------------|------------|-----------|
| 1001 | S320 | M3455 | Teri | Chan |
| 1002 | S255 | M3455 | Carlos | Trujillo |
| 1003 | S511 | A4343 | Helen | Yang |
| 1004 | S812 | S4511 | Robert | Cray |
| 1005 | S320 | A4343 | Teri | Chan |
| 1006 | S255 | M4422 | Carlos | Trujillo |
| 1007 | S511 | M4433 | Helen | Yang |
| 1008 | S812 | S2212 | Robert | Cray |

Registration Relation

| | | | | |
|------|------|-------|-------|------|
| 1003 | S511 | A4343 | Helen | Yang |
| 1005 | S320 | A4343 | Teri | Chan |

Registration2 Relation

- A. SELECT Course_Code FROM Registration;
- B. SELECT * FROM Registration WHERE Registration_ID = 1003 AND Registration_ID = 1005;
- C. SELECT * FROM Registration WHERE Course_Code = \\A4343\\;
- D. SELECT Registration_ID, Student_ID, First_Name, Last_Name FROM Registration WHERE Course_Code = \\A4343\\;

Correct Answer: C

QUESTION 7

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

| Registration_ID | Student_ID | Course_Code | First_Name | Last_Name |
|-----------------|------------|-------------|------------|-----------|
| 1001 | S320 | M3455 | Teri | Chan |
| 1002 | S255 | M3455 | Carlos | Trujillo |
| 1003 | S511 | A4343 | Helen | Yang |
| 1004 | S812 | S4511 | Robert | Cray |
| 1005 | S320 | A4343 | Teri | Chan |
| 1006 | S255 | M4422 | Carlos | Trujillo |
| 1007 | S511 | M4433 | Helen | Yang |
| 1008 | S812 | S2212 | Robert | Cray |

Registration Relation

- A. Second normal form
- B. First normal form
- C. Boyce-Codd normal form
- D. Third normal form

Correct Answer: A

QUESTION 8

Which of the following ACID properties requires that a transaction be executed in its entirety or not at all?

- A. Durability
- B. Consistency
- C. Isolation
- D. Atomicity

Correct Answer: D

QUESTION 9

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 10

Consider the following relational algebraic expression as well as the Dept1_Parts and Dept2_Parts relations shown in the exhibit:

$$\text{Dept1_Parts} - \pi_{\text{Part_ID}}(\text{Dept2_Parts})$$

| 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 relations would result from the given relational algebraic expression?

A.

| Part_ID | Part_Name | Description | Supp_ID |
|---------|-----------|----------------|---------|
| 0302 | flange | slip-on flange | 331 |
| 0362 | bolt | studbolt | 441 |

B.

| Part_ID | Part_Name | Description | Supp_ID |
|---------|--------------|-------------|---------|
| 0322 | screw | capscrew | 441 |
| 0332 | socket screw | button head | 551 |

C.

| Part_ID | Part_Name | Description | Supp_ID |
|---------|--------------|--------------|---------|
| 0312 | bolt | hexagon bolt | 221 |
| 0342 | flange | blind flange | 331 |
| 0352 | socket screw | countersunk | 441 |

D.

| 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 |

A. B. C. D.

Correct Answer: C

QUESTION 11

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 12

Consider the relation shown in the exhibit. Which of the following SQL statements would properly remove all tuples for New York customers?

| 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

- A. DELETE * FROM Customers WHERE Sales_Office = New York;
- B. DELETE FROM Customers WHERE Sales_Office = New York;
- C. DELETE * FROM Customer WHERE Sales_Office New York;
- D. DELETE FROM Customers WHERE Sales_Office NOT LIKE New York;

Correct Answer: B

QUESTION 13

Consider the Orders relation shown in the exhibit. Which of the following SQL statements would replace the value in the Sales_Rep_No column with 110 everywhere that Sales_Rep_No 108 is listed?

| 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. UPDATE Sales_Rep_No IN Orders SET(Sales_Rep_No = 110 WHERE Sales_Rep_No = 108);
- B. UPDATE Orders SET Sales_Rep_No = 110 WHERE Sales_Rep_No = 108;
- C. UPDATE Orders SET Sales_Rep_No = 110;
- D. UPDATE Orders WHERE Sales_Rep_No = 108 SET Sales_Rep_No = 110;

Correct Answer: B

QUESTION 14

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 15

Which of the following occurs in a relation when records are added or removed?

- A. The number of domains changes.
- B. The attributes in the table change.
- C. The cardinality of the relation is fixed but the degree varies.
- D. The degree of the relation is fixed but the cardinality varies.

Correct Answer: D