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## Q&A

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**Exam** : **1D0-441**

**Title** : **CIW DATABASE  
SPECIALIST**

**Version** : **DEMO**

**1.A foreign key maps to a:**

- A.prime key.
- B.indirect key.
- C.parent key.
- D.composite key.

**Correct:C****2.Consider the relation shown in the exhibit. Which of the following SQL statements would properly add information for a new employee?**

Emp_ID	First_Name	Last_Name	Birth_Date
0001	Helen	Lee	12-05-75
0002	James	Smith	10-25-76
0003	Eliza	Perez	02-15-80
0004	Samuel	Hayes	11-07-71

**Employee Relation**

- A.INSERT INTO Employee VALUES(0005, Tim, Bogart, 03-15-77);
- B.INSERT INTO Employee(Emp\_ID, First\_Name, Last\_Name, Birth\_Date) VALUES(0004, Tim, Bogart, 03-15-77);
- C.INSERT INTO Employee(Emp\_ID, First\_Name, Last\_Name, Birth\_Date) VALUES(0005, Tim, Bogart, 03-05-77);
- D.INSERT INTO Employee (Emp\_ID, First\_Name, Last\_Name, Birth\_Date) VALUES (0005, Tim, Bogart, 03-05-77);

**Correct:D****3.Which pair of relational algebraic operations requires union compatibility?**

- A.Union and join
- B.Selection and projection
- C.Intersection and difference
- D.Cartesian product and intersection

**Correct:C****4.Which static member of the ResultSet class should be used to create an updatable result set?**

- A.ResultSet.TYPE\_FORWARD\_ONLY
- B.ResultSet.TYPE\_FORWARD\_UPDATABLE
- C.ResultSet.TYPE\_SCROLL\_INSENSITIVE
- D.ResultSet.TYPE\_SCROLL\_SENSITIVE

**Correct:D****5.Which method of the Statement interface could be used to delete data from a database?**

- A.executeUpdate
- B.executeQuery
- C.close
- D.clearBatch

**Correct:A****6.Which JDBC interface is used to extract information about the database schema?**

- A.ResultSet

- B.Connection
- C.DatabaseMetaData
- D.ResultSetMetaData

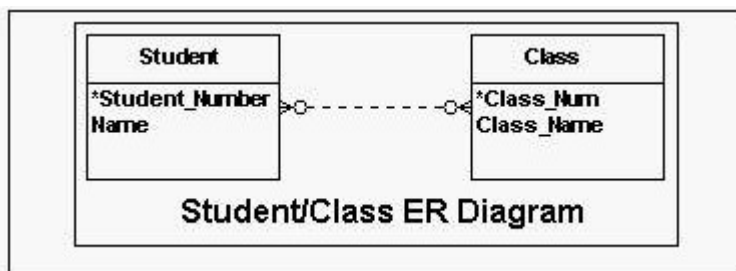
**Correct:C**

**7.Which of the following statements is true of the Connection interface?**

- A.Each JDBC client application must provide a class that implements the Connection interface.
- B.Each JDBC driver provides a class that implements the Connection interface.
- C.Each JVM provides a class that implements the Connection interface.
- D.The Connection interface can be used to load a JDBC driver.

**Correct:B**

**8.Consider the Entity-Relation 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 Entity-Relation diagram?**



- 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\_Num CLASS( Class\_Num: integer NOT NULL Class\_Name: integer NOT NULL) Primary Key Class\_Num

**Correct:D**

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

Teacher_ID	Teacher_Name	Dept_Code	Office_No	Teacher_Aide	Dept_Phone
A12	M. Smith	Acc	A234	T. Juarez	555-1375
E32	L. Rodriguez	Eco	E781	L. James	555-7402
M34	Y. Yee	Math	M442	J. Daye	555-2345
S29	H. Huan	Sci	S301	R. Nguyen	555-8945
A15	M. Chang	Acc	A257	T. Juarez	555-1375
E42	T. Colton	Eco	E331	L. James	555-7402
M74	R. Perez	Math	M662	J. Daye	555-2345

**Teacher Relation**

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

**Correct:C**

**10.Consider the following domain description: domain Student\_ID: integer domain Grade: fixed length character string length 1 To meet business needs, you must add enterprise constraints to this domain description. The Student\_ID should always be a positive integer. The initial value of Student\_ID should be 0 (zero) to indicate that a valid ID number has not been assigned. The Grade should be limited to the letters A through F. Which SQL statements would perform these tasks?**

- A.CREATE DOMAIN Student\_ID AS INTEGER DEFAULT 0 CHECK ( Student\_ID > -1); CREATE DOMAIN Grade AS CHAR(1); CHECK (Student\_ID IN ('A','B','C','D','E','F'));
- B.CREATE DOMAIN Student\_ID AS INTEGER CHECK (Student\_ID > -1); CREATE DOMAIN Grade AS CHAR(1); DEFAULT NULL CHECK (Student\_ID IN ('A','B','C','D','E','F'));
- C.CREATE DOMAIN Student\_ID AS INTEGER; CREATE DOMAIN Grade AS CHAR(1); CONSTRAINT ENTERPRISE CHECK;
- D.CREATE TABLE ENTERPRISE ( Student\_ID INTEGER NULL Grade VARCHAR(1) NOT NULL, CONSTRAINT ENTERPRISE CHECK;

**Correct:A**

**11.Assuming that conn references a valid and open connection to the database, which code segment will insert values into the Employees relation?**

- A.conn.executeUpdate (INSERT INTO Employees VALUES + (1001, 'Karen Hughes', 55000));
- B.Statement s = conn.createStatement(); s.executeUpdate(INSERT INTO Employees VALUES + (1001, 'Karen Hughes', 55000));
- C.Statement s = conn.createStatement(); s.executeQuery(INSERT INTO Employees VALUES + (1001, 'Karen Hughes', 55000));
- D.Statement s = new Statement(); s.executeUpdate(INSERT INTO Employees VALUES + (1001, 'Karen Hughes', 55000));

**Correct:B**

**12.Which term describes one or more database operations that are executed as a single unit?**

- A.Update
- B.Transaction
- C.Encapsulation

D.Operational group

**Correct:B**

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

Emp_ID	Emp_Name	Dept_ID	Dept_Name	Mngr_ID	Mngr_Name	P_No	P_Name	Start_Date
001	Lee	25	R & D	12	Ames	1,4	Adams, Jones	1-1-02, 2-1-02
002	Smith	35	Marketing	22	Yee	2,5	Ingram, PSoft	2-2-02, 3-2-02
003	Perez	25	R & D	12	Ames	3	IMacks	5-5-02

**Employee Relation**

A.Second normal form

B.Third normal form

C.No normal form

D.First normal form

**Correct:C**

14.Consider the following SQL statement: **SELECT \* FROM Orders WHERE Order\_Date LIKE %02 ORDER BY Sales\_Rep\_No, Amount DESC;** Using the Orders Relation shown in the exhibit, which of the following tables shows the result of this SQL statement?

exhibit 1.134

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
2019	02-22-02	1003	350	1936.69
2024	02-22-02	1004	210	1226.09
2025	03-01-02	1009	108	538.89
2028	03-04-02	1006	109	1648.49

Orders Relation

Option A

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2009	01/15/02	1008	350	926.89
2019	02-22-02	1003	350	1936.69
2024	02-22-02	1004	210	1226.09
2015	02-10-02	1004	210	1818.19
2006	01/14/02	1008	187	1216.69
2016	02-16-02	1006	109	678.18
2028	03-04-02	1006	109	1648.49
2025	03-01-02	1009	108	538.89
2012	02/02/02	1001	108	816.09

Option B

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2012	02/02/02	1001	108	816.09
2025	03-01-02	1009	108	538.89
2028	03-04-02	1006	109	1648.49
2016	02-16-02	1006	109	678.18
2006	01/14/02	1008	187	1216.69
2015	02-10-02	1004	210	1818.19
2024	02-22-02	1004	210	1226.09
2019	02-22-02	1003	350	1936.69
2009	01/15/02	1008	350	926.89

Option C

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2019	02-22-02	1003	350	1936.69
2009	01/15/02	1008	350	926.89
2015	02-10-02	1004	210	1818.19
2024	02-22-02	1004	210	1226.09
2006	01/14/02	1008	187	1216.69
2028	03-04-02	1006	109	1648.49
2016	02-16-02	1006	109	678.18
2012	02/02/02	1001	108	816.09
2025	03-01-02	1009	108	538.89

Option D

Order_No	Order_Date	Customer_No	Sales_Rep_No	Amount
2025	03-01-02	1009	108	538.89

- A.Exhibit Option A
- B.Exhibit Option B
- C.Exhibit Option C
- D.Exhibit Option D

**Correct:B**

**15.Consider the following stored procedure: CREATE PROCEDURE showFees AS SELECT Fee FROM ACTIVITY WHERE Fee > 0 Which Java code segment will correctly utilize this stored procedure?**

- A.CallableStatement cs = conn.prepareCall({call showFees}); ResultSet rs = cs.executeQuery();
- B.CallableStatement cs = conn.prepareCall({call showFees}); ResultSet rs = cs.execute();
- C.PreparedStatement ps = conn.prepareStatement(SELECT Fee + FROM ACTIVITY + WHERE Fee > 0); ResultSet rs = cs.execute();
- D.PreparedStatement ps = conn.prepareStatement(SELECT Fee + FROM ACTIVITY + WHERE Fee > 0); ResultSet rs = cs.execute();

**Correct:A**

**16.Which Statement interface methods are used to execute a SQL select query?**

- A.executeUpdate and close
- B.executeUpdate and execute
- C.executeQuery and execute
- D.executeUpdate and executeQuery

**Correct:C**

**17.What is the purpose of the batch update feature in JDBC 2.0?**

- A.To reduce processing time
- B.To enable transaction processing
- C.To provide enhanced security
- D.To generate result sets

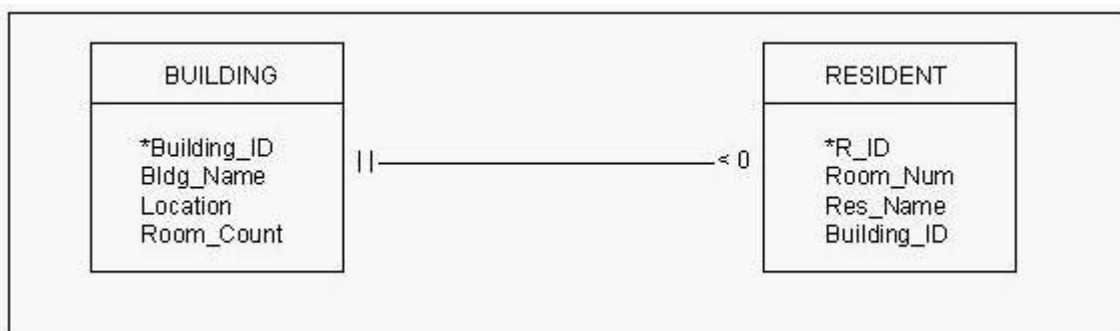
**Correct:A**

**18.With regard to databases, what is normalization?**

- A.The process of reducing the cardinality of a relation
- B.The process of organizing and refining relations
- C.The process of duplicating data to reduce the number of tables
- D.The process of limiting data stored in a table to a specific range of values

**Correct:B**

**19.Consider the Information Engineering diagram in the exhibit showing the relations BUILDING and RESIDENT. What is the relationship between BUILDING and RESIDENT?**





- A.1:1  
 B.1:N  
 C.N:1  
 D.M:N

**Correct:B**

20.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**

- 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;

**Correct:C**