



## [CIW 1D0-441](#)

**Exam Name:** CIW DATABASE SPECIALIST

**Q & A :** 162 Q&As

***Pdf Demo***

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Exam : CIW 1D0-441

Title : CIW DATABASE SPECIALIST

1. 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

Answer: A

2. 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

Answer: B

3. 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?

A. Exhibit Option A

B. Exhibit Option B

C. Exhibit Option C

D. Exhibit Option D

Answer: B

4. 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

Answer: C

5. Consider the relation shown in the exhibit. Which of the following SQL statements would properly add information for a new employee?

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);
```

Answer: D

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

A. Second normal form

B. Third normal form

C. No normal form

D. First normal form

Answer: C

7. A foreign key maps to a:

A. prime key.

B. indirect key.

C. parent key.

D. composite key.

Answer: C

8. 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

Answer: B

9. Which method of the Statement interface could be used to delete data from a database?

A. executeUpdate

B. executeQuery

C. close

D. clearBatch

Answer: A

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

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

Answer: C

11. 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

Answer: D

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

Answer: B

13. Which of the following statements is true of the Connection interface?

- A. Update
- B. Transaction
- C. Encapsulation
- D. Operational group

Answer: B

14. Which of the following statements is true of the Connection interface?

- A. Update
- B. Transaction
- C. Encapsulation
- D. Operational group

Answer: B

15. 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.

Answer: B

14. 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;

Answer: A

15. 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.execute(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));

Answer: B

16. 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

Answer: D

17. 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

Answer: C

18. 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();

Answer: A

19. 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?

- 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

20. Which JDBC interface is used to extract information about the database schema?

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

Answer: C

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