**jdbc**

1  Suppose that your program accesses MySQL or Oracle database. Which of the following statements are true?

**A. If the driver for MySQL and Oracle are not in the classpath, the program will have a runtime error, indicating that the driver class cannot be loaded.**

**B. If the database is not available, the program will have a runtime error, when attempting to create a Connection object.**

C. If the database is not available, the program will have a syntax error.

D. If the driver for MySQL and Oracle are not in the classpath, the program will have a syntax error.

Ans. a b

2  Analyze the following code:

     ResultSet resultSet = statement.executeQuery

       ("select firstName, mi, lastName from Student where lastName " + " = 'Smith'");

     System.out.println(resultSet.getString(1));

A. If the SQL SELECT statement returns no result, resultSet is null.

**B. resultSet.getString(1) returns the firstName field in the result set.**

C. resultSet.getString(1) returns the mi field in the result set.

**D. The program will have a runtime error, because the cursor in resultSet does not point to a row. You must use resultSet.next() to move the cursor to the first row in the result set. Subsequently, resultSet.next() moves the cursor to the next row in the result set.**

Ans. b d

3  Which of the following statements are true?

**A. PreparedStatement is a subinterface of Statement**

**B. The parameters in a prepared statement is denoted using the ? sign.**

C. PreparedStatement is for SQL query statements only. You cannot create a PreparedStatement for SQL update statements.

**D. PreparedStatement is efficient for repeated executions.**

Ans. a b d

4  In a relational data model, \_\_\_\_\_\_\_\_ provides the means for accessing and manipulating data.

**A. SQL**

**B. Language**

C. Structure

D. Integrity

Ans. a b

5  What information may be obtained from a ResultSetMetaData object?

**A. number of columns in the result set**

B. number of rows in the result set

C. database URL and product name

D. JDBC driver name and version

Ans. a

6  Which of the following statements are true?

**A. You may load multiple JDBC drivers in a program.**

**B. You may create multiple connections to a database.**

**C. You can send queries and update statements through a Statement object.**

**D. You may create multiple statements from one connection.**

Ans. a b c d

7  Which of the following are interfaces?

**A. DriverManager**

**B. Connection**

**C. Statement**

**D. ResultSet**

Ans. a b c d

8  To connect to a local MySQL database named test, use

**A. Connection connection = DriverManager.getConnection("jdbc:mysql://localhost/test");**

B. Connection connection = DriverManager.getConnection("mysql:jdbc://localhost/test");

C. Connection connection = DriverManager.connect("jdbc:mysql://localhost/test");

D. Connection connection = DriverManager.getConnection(jdbc:mysql://localhost/test);

Ans. a

9  To execute a SELECT statement "select \* from Address" on a Statement object stmt, use

A. stmt.execute("select \* from Address");

B. stmt.query("select \* from Address");

**C. stmt.executeQuery("select \* from Address");**

D. stmt.executeUpdate("select \* from Address");

Ans. c

10  Database meta data are retrieved through \_\_\_\_\_\_\_\_\_\_\_\_.

A. a ResultSet Object

B. a PreparedStatement object

**C. a Connection object**

D. a Statement object

Ans. c

11  SQL \_\_\_\_\_\_\_\_ statements may change the contents of a database.

**A. DELETE**

**B. UPDATE**

C. SELECT

**D. INSERT**

Ans. a b d

12  Where is com.mysql.jdbc.Driver located?

A. in the standard Java library bundled with JDK

B. in a JAR file classes12.jar

**C. in a JAR file mysqljdbc.jar**

Ans. c

13  Result set meta data are retrieved through \_\_\_\_\_\_\_\_\_\_\_\_.

A. a PreparedStatement object

**B. a ResultSet Object**

C. a Connection object

D. a Statement object

Ans b

14  Which of the following statements loads the JDBC-ODBC driver?

A. Class.loadClass("sun.jdbc.odbc.JdbcOdbcDriver")

B. Class.loadClass(sun.jdbc.odbc.JdbcOdbcDriver)

**C. Class.forName("sun.jdbc.odbc.JdbcOdbcDriver")**

D. Class.forName(sun.jdbc.odbc.JdbcOdbcDriver)

Ans. c

15  \_\_\_\_\_\_\_\_ are known as intra-relational constraints, meaning that a constraint involves only one relation.

**A. Domain constraints**

**B. Primary key constraints**

C. Foreign key constraints

Ans. a b

16  \_\_\_\_\_\_\_\_ is an attribute or a set of attributes that uniquely identifies the relation.

A. A key

**B. A superkey**

C. A primary key

D. A candidate key

Ans. b

17  What is the return value from

      stmt.executeUpdate("insert into T values (100, 'Smith')")

**A. an int value indicating how many rows are effected from the invocation**

B. void

C. an object that contains the status of the execution

D. a value indicating whether the SQL statement has been executed successfully

Ans. a

18  A database URL for a MySQL database named test on host panda.armstrong.edu is \_\_\_\_\_\_\_\_.

A. jdbc:mysql:/panda.armstrong.edu/test

**B. jdbc:mysql://panda.armstrong.edu/test**

C. jdbc.mysql.//panda.armstrong.edu/test

D. jdbc.mysql://panda.armstrong.edu/test

Ans. b

19  To create a statement on a Connection object conn, use

A. Statement statement = Connection.createStatement();

**B. Statement statement = conn.createStatement();**

C. Statement statement = connection.create();

D. Statement statement = conn.statement();

Ans. b

20  In a relational data model, \_\_\_\_\_\_\_\_\_ imposes constraints on the data.

A. Language

B. Structure

C. SQL

**D. Integrity**

Ans. d

21  A database URL for an access database source test is \_\_\_\_\_\_\_\_.

A. sun.jdbc:odbc:test

B. test

C. jdbcodbc:test

**D. jdbc:odbc:test**

Ans. d

22  Invoking Class.forName method may throw \_\_\_\_\_\_\_\_\_\_\_.

**A. ClassNotFoundException**

B. RuntimeException

C. SQLException

D. IOException

Ans. a

23  You may create a RowSet using \_\_\_\_\_\_\_\_\_\_.

**A. new JdbcRowSetImpl()**

B. new JdbcRowSet()

**C. new CachedRowSetImpl()**

D. new CachedRowSet()

E. new RowSet()

Ans. a c

24  You can use a RowSet to \_\_\_\_\_\_\_\_\_\_.

**A. set a database password**

**B. set a SQL query statement**

**C. set a database URL**

**D. set a database username**

Ans. a b c d

25

To add the SQL statement "insert into T values (100, 'Smith')" into the batch into a Statement stmt, use

**A. stmt.addBatch("insert into T values (100, 'Smith')");**

B. stmt.add("insert into T values (100, 'Smith')");

C. stmt.add('insert into T values (100, 'Smith')');

D. stmt.addBatch('insert into T values (100, 'Smith')');

Ans. a

26  To obtain a scrollable or updateable result set, you must first create a statement using the following syntax:

A. Statement statement = connection.createStatement(ResultSet.TYPE\_FORWARD\_ONLY, ResultSet.CONCUR\_READ\_ONLY);

**B. Statement statement = connection.createStatement(ResultSet.TYPE\_SCROLL\_SENSITIVE, ResultSet.CONCUR\_UPDATABLE);**

C. Statement statement = connection.createStatement(ResultSet.TYPE\_SCROLL\_SENSITIVE, ResultSet.CONCUR\_READ\_ONLY);

D. Statement statement = connection.createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_UPDATABLE);

Ans. b

27  In a scrollable and updateable result set, you can use \_\_\_\_\_\_\_\_\_\_\_ methods on a result set.

**A. updateRow()**

**B. first()**

**C. deleteRow()**

**D. insertRow()**

**E. last()**

Ans. a b c d e

28  RowSet is an extension of \_\_\_\_\_\_\_.

A. Statement

B. CLOB

**C. ResultSet**

D. Connection

Ans. c

29  Invoking executeBatch() returns \_\_\_\_\_\_\_\_.

A. an int value indicating how many SQL statements in the batch have been executed succefully.

B. an int value indicating how many rows are effected by the batch execution.

C. a ResultSet

**D. an array of counts, each of which counts the number of the rows affected by the SQL command.**

Ans. d

30  You can store images in a database using data type \_\_\_\_\_\_\_.

**A. BLOB**

B. varchar2

C. CLOB

D. varchar

Ans. a

Keys:

1. AB 2. BD 3. ABD 4. AB 5. A 6. ABCD 7. BCD 8. A 9. C

10. C 11. ABD 12. C 13. B 14. C 15. AB 16. B 17. A 18. B 19. B 20. D 21. D 22. A 23. AC 24. ABCD 25. A 26. B 27. ABCDE 28. C 29. D 30. A