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. 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