IRC_SKCT_Java2_MCQ_JDBC

Test Summary

- No. of Sections: 1
- No. of Questions: 20
- Total Duration: 30 min

Section 1 - MCQ

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- No. of Questions: 20
- Duration: 30 min

Additional Instructions:

None

Q1.   What is the meaning of the transaction isolation level TRANSACTION_REPEATABLE_READ?

> Dirty reads, non-repeatable reads and phantom reads can occur

> Dirty reads are prevented; non-repeatable reads and phantom reads can occur

> Dirty reads and non-repeatable reads are prevented; phantom reads can occur

> Dirty reads, non-repeatable reads and phantom reads are prevented

Q2.   Which of the following is beneficial when we are dealing with multiples tables with complex scenario?

> Stored procedures

> Functions

> Triggers

> Methods

Q3.   Given the following code snippet and the table below, what is the output of the following when using a driver that supports a scroll

first_name character varying (255)	last_name character varying (255)
Akash	Kumar
Manju	Mittal
Sanjay	Gandhi
Gautam	Gambhir

sensitive ResultSet?

```
1   try (Connection conn = DriverManager.getConnection(url);
2     Statement stmt = conn.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE, ResultSet.CONCUR_READ_ONLY);
3     ResultSet rs = stmt.executeQuery("select * from people order by last_name asc")) {
4       rs.afterLast();
5       rs.next();
6       rs.next();
```

```
6      rs.next(),
7      rs.previous();
8      rs.previous();
9      System.out.println(rs.getString(1));
10   }
11 |
```

Manju

Sanjay

Gautam

The code throws a SQLException at runtime.

Q4.   Which of the following driver uses the client side libraries of the database?

JDBC-ODBC bridge driver

Network Protocol Driver

Thin driver

Native-API driver

Q5.   When the message "No Suitable Driver" occurs?

When the driver is not registered by Class.forname() method

When the user name, password and the database does not match

When the JDBC database URL passed is not constructed properly

When the type 4 driver is used

Q6.   Consider the following code snippet:
       Assume that resultSet and statement are legitimate instances of the ResultSet and Statement interfaces, respectively. Which one
       of the following statements is correct with respect to Stmt #1 and Stmt #2 for successfully inserting a new row?

```
1   try(ResultSet resultSet = statement.executeQuery("SELECT * FROM contact")) {
2       // Stmt #1
3       resultSet.updateString("firstName", "John");
4       resultSet.updateString("lastName", "K.");
5       resultSet.updateString("email", "john@abc.com");
6       resultSet.updateString("phoneNo", "+19753186420");
7       // Stmt #2
8       // rest of the code elided
9   }|
```

Replacing Stmt #1 with resultSet.moveToInsertRow() will make the program
work

Replacing Stmt #1 with resultSet.insertRow() will make the program work

> Replacing Stmt #1 with resultSet.moveToInsertRow() and Stmt #2 with resultSet.insertRow() will make the program work.

> Replacing Stmt #1 with resultSet.insertRow() and Stmt #2 with resultSet.moveToInsertRow() will make the program work

Q7.   Which method is used to perform DML statements in JDBC?

> execute()

> executeQuery()

> executeUpdate()

> executeResult()

Q8.   Which of these obtains a Connection?

> Connection.getConnection(url)

> Driver.getConnection(url)

> DriverManager.getConnection(url)

> new Connection(url)

Q9.   Consider this program, and choose the best option describing its behavior (assume that the connection is valid):

```
1    try (Statement statement = connection.createStatement();
2        ResultSet resultSet = statement.executeQuery("SELECT * FROM contact")){
3        System.out.println(resultSet.getInt("id") + "\t"
4        + resultSet.getString("firstName") + "\t"
5        + resultSet.getString("lastName") + "\t"
6        + resultSet.getString("email") + "\t"
7        + resultSet.getString("phoneNo"));
8    }
9    catch (SQLException sqle) {
10       System.out.println("SQLException");
11   }
```

> This program will print the following: SQLException.

> This program will print the first row from contact.

> This program will print all the rows from contact.

> This program will report compiler errors.

Q10.   What must be the first characters of a database URL?

> db,

db:

jdbc,

jdbc:

Q11.   If you close the connection object first, it will close the PreparedStatement object as well.

True

False

Q12.   Which interfaces provide methods for batch processing in JDBC?

java.sql.Statement

java.sql.PreparedStatement

All the above

None of the above

Q13.   Which of the following methods is used to register the driver class?

forName()

DriverManager()

register()

Connection()

Q14.   Which result set generally does not show changes to the underlying database that are made while it is open. The membership, order, and column values of rows are typically fixed when the result set is created?

TYPE_FORWARD_ONLY

TYPE_SCROLL_INSENSITIVE

TYPE_SCROLL_SENSITIVE

ALL MENTIONED ABOVE

Q15.   Which of the following is an advantage of using PreparedStatement in Java?

Slow performance

Encourages SQL injection

Prevents SQL injection

More memory usage

Q16.   How can you execute DML statements (i.e. insert, delete, update) in the database?

By making use of the InsertStatement, DeleteStatement or UpdateStatement classes

By invoking the execute(…) or executeUpdate(…) method of a normal Statement object or a sub-interface object thereof

By invoking the executeInsert(…), executeDelete(…) or executeUpdate(…) methods of the DataModificationStatement object

By making use of the execute(…) statement of the DataModificationStatement object

Q17.   Which of the following method of driver manager class creates a connection?

class.forName()

getConnection()

establishConnection()

createConn()

Q18.   Which of the following is true about attribute Concurrency in ResultSet?

The ResultSet concurrency determines whether the ResultSet can be updated.

The ResultSet concurrency determines whether the ResultSet can be read only.

Both of the above.

None of the above.

Q19.   Which of the following method is used for create, drop, insert, delete and update?

public int executeQuery()

public int executeSQL()

public int executeUpdate()

public int executeStatement()

Q20.   To execute a stored procedure "totalStock" in a database server, which of the following code snippet is used?

Statement stmt = connection.createStatement();stmt.execute("totalStock()");

CallableStatement clbstmnt = con.prepareCall("{call totalStock}");cs.executeQuery();

StoreProcedureStatement stmt=connection.createStoreProcedure("totalStock()");spstmt.executeQuery();

PrepareStatement pstmt = connection.prepareStatement("totalStock()");pstmt.execute();

Section 1 - MCQ

Q1

Dirty reads and non-repeatable reads are prevented; phantom reads can occur

Solution

No Solution

Q2

Stored procedures

Solution

No Solution

Q3

Sanjay

Solution

No Solution

Q4

Native-API driver

Solution

No Solution

Q5

When the JDBC database URL passed is not constructed properly

Solution

No Solution

Q6

Replacing Stmt #1 with resultSet.moveToInsertRow() and Stmt #2 with resultSet.insertRow() will make the program work.

Solution

Replacing Stmt #1 with resultSet.moveToInsertRow() will make the program work

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Replacing Stmt #1 with resultSet.moveToInsertRow() and Stmt #2 with resultSet.insertRow() will make the program work.

Replacing Stmt #1 with resultSet.insertRow() and Stmt #2 with resultSet.moveToInsertRow() will make the program work.

Q7

executeUpdate()

Solution

No Solution

Q8

DriverManager.getConnection(url)

Solution

No Solution

Q9

This program will print the following: SQLException.

Solution

No Solution

Q10

jdbc:

Solution

No Solution

Q11

True

Solution

No Solution

Q12

All the above

Solution

No Solution

Q13

forName()

Solution

No Solution

Q14

TYPE_SCROLL_INSENSITIVE

Solution

No Solution

Q15

Prevents SQL injection

Solution

No Solution

Q16

By invoking the execute(…) or executeUpdate(…) method of a normal Statement object or a sub-interface object thereof

Solution

No Solution

Q17 getConnection()

Solution

No Solution

Q18 Both of the above.

Solution

No Solution

Q19 public int executeUpdate()

Solution

No Solution

Q20 CallableStatement clbstmnt = con.prepareCall("{call totalStock}");cs.executeQuery();

Solution

No Solution