



OBJECT ORIENTED PROGRAMMING WITH JAVA

Assignment11

TYPE OF QUESTION: MCQ

Number of questions: 15

Total mark: $15 \times 1 = 15$

QUESTION 1:

Which of the following statement is TRUE?

- a. SQL is a database management system based on relational algebra.
- b. SQL is a programming language like C, C++ and Java.
- c. SQL is case-sensitive.
- d. SQL is used in Java programs with JDBC to process data in DBMS.

Correct Answer:d

Detailed Solution:

SQL is not a DBMS like MySQL. It is a command processing using 4GL unlike all programming languages, which are 3GL and SQL is not-case-sensitive.

QUESTION 2:

The package, which is required to be imported for the JDBC programming?

- a. java.net
- b. java.sql
- c. java.lang
- d. java.io

Correct Answer:b

Detailed Solution:

All classes and interfaces related to JDBC are defined in java.sql package.



QUESTION 3:

Which of the following is true about MySQL?

- a. MySQL is a database system used on the web.
- b. MySQL is a database system that runs on a server.
- c. MySQL uses standard SQL.
- d. MySQL is used to create a table, enter data into table, update records in a table and retrieving data from a table.
- e. All of the above.

Correct Answer:e

Detailed Solution:

All of the above-mentioned statements are true so far the MySQL is concerned.

QUESTION 4:

The SQL command “USE test”implies,which of the following?

- a. List all the databases those are there in the database server.
- b. List all the tables those are there under the database.
- c. Create a table called test.
- d. Set test as the current working database, so that any SQL command bind to the test database only.

Correct Answer:d

Detailed Solution:

The USE command is used to set the current working database.

QUESTION 5:

Which of the following SQL command(s) is/are used for entering a new record into a table, say TEST?

- a. SELECT
- b. CREATE
- c. INSERT



d. UPDATE

Correct Answer:c

Detailed Solution:

The INSERT INTO command is used to insert a record in to a table provided that a table already exists. If the table contains record, then the current record will be added at the end of the table.

QUESTION 6:

Which of the following best describes about JDBC?

- a. JDBC works like a bridge connecting a Java application to a RDBMS, execute SQL commands and return results to the application.
- b. JDBC is a software component, which is both network and database independent.
- c. JDBC should be installed in the same machine from where the Java application will run.
- d. JDBC should be installed in the same server that of the database.

Correct Answer:a

Detailed Solution:

The JDBC driver for different databases is different. But, as an end-user, we don't have to bother about their implementation. The networking is also not an issue for the users. Further, JDBC can be installed anywhere in between the client and server.

QUESTION 7:

Which JDBC driver is efficient and always preferable for using JDBC applications?

- a. Type – 1
- b. Type – 2
- c. Type – 3
- d. Type – 4

Correct Answer:d

Detailed Solution:



The JDBC Driver Type-4 is better compared to all other drivers because it performs better than all other drivers. No software is required at client side or server side.

QUESTION 8:

In JDBC, all raw data types (including binary documents or images) should be read and uploaded to the database as an array of

- a. int
- b. char
- c. byte
- d. String

Correct Answer:c

Detailed Solution:

All data types should be read and uploaded to the database as an array of bytes.

QUESTION 9:

The class `java.sql.Timestamp` has its super class as

- a. `java.sql.Time`
- b. `java.util.Date`
- c. `java.util.Time`
- d. `java.lang.Date`

Correct Answer:b

Detailed Solution:

The `java.sql.Timestamp` inherits `java.util.Date` class.

QUESTION 10:

Once a JDBC driver has been registered, what method is used to make the database connection?

- a. `getConnection(String url, String userID, String password)`
- b. `setConnection(String url, String userID, String password)`
- c. `Connect(String url, String userID, String password)`
- d. Any one of the above.



Correct Answer: a

Detailed Solution:

The `getConnection(String url, String userID, String password)` method is used to make the database connection.

QUESTION 11:

What is/ are the steps required to include in a Java program using JDBC?

- a. Create a Connection object.
- b. Grab the connection with the DriverManager.
- c. Create a statement object from the connection.
- d. Get the ResultSet object and use it.
- e. All of the above.

Correct Answer: e

Detailed Solution:

These are the four basic steps to be followed as the JDBC program in Java.

QUESTION 12:

How do you know in your Java program that a SQL warning is generated as a result of executing a SQL statement in the database?

- a. You must catch the checked `SQLException` which is thrown by the method which executes the statement.
- b. You must catch the unchecked `SQLWarningException` which is thrown by the method which executes the statement.
- c. You must invoke the `getWarnings()` method on the Statement object (or a sub interface thereof).
- d. You must query the ResultSet object about possible warnings generated by the database.

Correct Answer: c

Detailed Solution:

The `getWarnings()` method can return, if the SQL database server returns any error or warning.



QUESTION 13:

Which of the statements are correct about JDBC transactions?

- a. A transaction is a set of successfully executed statements in the database
- b. A transaction is finished when commit() or rollback() is called on the Connection object,
- c. A transaction is finished when commit() or rollback() is called on the Transaction object
- d. A transaction is finished when close() is called on the Connection object.

Correct Answer: b, d

Detailed Solution:

A transaction is finished when commit(), rollback() or close() method is called on the Connection object.

QUESTION 14:

What is the use of PreparedStatement?

- a. It makes the Connection object to be getting ready.
- b. It executes SQL query and returns the data in a table (ResultSet) object.
- c. It determines the number of rows a ResultSet can contain.
- d. It is a precompiled series of SQL statements to be executed at one go.

Correct Answer: d

Detailed Solution:

The PreparedStatement is used for executing a precompiled SQL statement

QUESTION 15:

Which of the following is/ are interface(s)?

- a. DriverManager.
- b. Connection.
- c. Statement.
- d. ResultSet.

Correct Answer: b, c



Detailed Solution:

This **DriverManager** class manages a connection requests from the Java application with the proper database driver using communication sub protocol. This **ResultSet** class retrieves data from a database server after executing an SQL query using Statement objects. It acts as an iterator to allow you to move through its data. This **interface** Connection is responsible for communicate to a database server, i.e., all communication with database is through Connection object only. The Statement **interface** is used to submit the SQL statements to the database server.

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