

JDBC Workbook

Answer the Following

1.	Explain basic steps in writing a Java program using JDBC?	
2.	What is ResultSet?	
3.	What is the need of BatchUpdates?	
4.	What is the difference between a Statement and a PreparedStat	ement?
5	What does the connection object represents?	
ο.	what does the connection object represents:	
6.	How do I load a database driver in JDBC?	

State whether the following are True/False

1. MySQL is an open source DBMS product that runs on UNIX, Linux and Windows. $[\]$



2. By using PreparedStaement interface, we can store and retrieve images. []	
3. The ResultSet object represents a column of a table. []	
4. The DatabaseMetaData interface returns the information of the database []	€.
5. The Connection interface maintains a session with the database.[]	
Multiple Choice Questions	
1. The method executes a simple query and returns a single ResultSet object.	
(a) executeUpdate()	
(b) executeQuery()	
(c) execute()	
(d) noexecute()	
2. The method sets the query parameters of the Prepared-Statement Object.	
(a) putString()	
(b) insertString()	
(c) setString()	
(d) setToString()	
3. Connection object can be initialized using the method of the Driver Manager class.	
(a) putConnection()	
(b) setConnection()	
(c) Connection()	
(d) getConnetion()	
4. The object provides you with methods to access data from the table.	
(a) ResultSet	
(b) Parametrized	
(c) TableStatement	
(d) Condition	



5.	The	object allows you to execute parametrized queries.
	(a)	ResultSet
	(b)	Parametrized
	(c)	PreparedStatement
	(d)	Condition
6.	a da	package contains classes that help in connecting to tabase, sending SQL statements to the database, and processing query results.
	(a)	connection.sql
	(b)	db.sql
	(c)	pkg.sql
	(d)	java.sql
Exe	ercis	ses
•		e the expected output, or compiler errors if any, for each of the wing programs in the box provided below each program.
•	The	a execute the programs and check your answers.
•	The	a answer the questions given below.
Prog	gram	1
1 2		ss.forName(''com.mysql.jdbc.Driver''); nection conection = DriverManager.getConnection (,,);
3	Sta	tement statement = conection.createStatement();
	Q1:	What is the exception thrown by a statement at line 1?
	Q2 :	Fill the blanks with suitable parameters in line 2?
	Q3:	what is the actual class of Connection and Statement?

Program 2



1	Statement statement = connection.createStatement()
2	ResultSet result = statement.executeQuery(''select * from people'');
	Q1: Rewrite above two statements using PreparedStatement ?
Prog	gram 3
1	String sql = ''select * from people where firstname=? and lastname=?'';
	Q1: How can you insert parameters at the location of the question mark in the above?.
Prog	gram 4
1	Statement statement = connection.createStatement()
2	; ResultSet result = statement.executeQuery(''select * from people'');
3	while (result.next()) {
4	String name = result.getString(''name'');
5 6	<pre>long age = result.getLong (''age''); System.out.println(name + '', '' + age);</pre>
7	}
	Assume one record in table 'people' is, name age
	James 45

 $\mathbf{Q1:}$ What will be the output of the above program?



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Q2: What happens if line 4 changed as String name = result.getString(1); ?
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Q3: What happens if line 5 changed as long age = result.getLong(2);
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