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Modern Application Development (Java Spring Boot) Assignment -3

1.

```
package net.javaguides.jdbc.h2.crud;


import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.Statement;


class H2JDBCUtils {


	private static String jdbcURL =
"jdbc:mysql://myhost1:3306,myhost2:3307/akash";

	private static String jdbcUsername = "akash";

	private static String jdbcPassword = "Akash@123";


	public static Connection getConnection() {

		Connection connection = null;

		try {
```

```
                connection = DriverManager.getConnection(jdbcURL,
jdbcUsername, jdbcPassword);
            } catch (SQLException e) {
                e.printStackTrace();
            }
            return connection;
        }

        public static void printSQLException(SQLException ex) {
            for (Throwable e : ex) {
                if (e instanceof SQLException) {
                    e.printStackTrace(System.err);
                    System.err.println("SQLState: " + ((SQLException)
e).getSQLState());
                    System.err.println("Error Code: " + ((SQLException)
e).getErrorCode());
                    System.err.println("Message: " + e.getMessage());
                    Throwable t = ex.getCause();
                    while (t != null) {
                        System.out.println("Cause: " + t);
                        t = t.getCause();
                    }
                }
            }
```

```
        }
}

class H2CreateExample {

   private static final String createTableSQL = "create table users (\r\n" + "  id  int(3) primary key,\r\n" +
      "  name varchar(20),\r\n" + "  email varchar(20),\r\n" + "  country varchar(20),\r\n" +
      "  password varchar(20)\r\n" + "  );";

   public static void main(String[] argv) throws SQLException {
        H2CreateExample createTableExample = new H2CreateExample();
      createTableExample.createTable();
   }

   public void createTable() throws SQLException {

      System.out.println(createTableSQL);

      try (Connection connection = H2JDBCUtils.getConnection();

         Statement statement = connection.createStatement();) {
         statement.execute(createTableSQL);
```

```
        } catch (SQLException e) {


            H2JDBCUtils.printSQLException(e);
        }
    }
}

class H2InsertExample {
    private static final String INSERT_USERS_SQL = "INSERT INTO users" +
        "  (id, name, email, country, password) VALUES " +
        " (?, ?, ?, ?, ?);";

    public static void main(String[] argv) throws SQLException {
        H2InsertExample createTableExample = new H2InsertExample();
        createTableExample.insertRecord();
    }

    public void insertRecord() throws SQLException {
        System.out.println(INSERT_USERS_SQL);

        try (Connection connection = H2JDBCUtils.getConnection();
```

```
        PreparedStatement preparedStatement =
connection.prepareStatement(INSERT_USERS_SQL)) {
        preparedStatement.setInt(1, 1);
        preparedStatement.setString(2, "Akash");
        preparedStatement.setString(3, "akash123@gmail.com");
        preparedStatement.setString(4, "india");
        preparedStatement.setString(5, "15463");

        System.out.println(preparedStatement);

        preparedStatement.executeUpdate();
      } catch (SQLException e) {

        H2JDBCUtils.printSQLException(e);
      }

  }
}

public class H2DeleteExample {
```

```
private static final String deleteTableSQL = "delete from users where id = 1";

    public static void main(String[] argv) throws SQLException {
        H2DeleteExample deleteExample = new H2DeleteExample();
        deleteExample.deleteRecord();
    }

    public void deleteRecord() throws SQLException {

      System.out.println(deleteTableSQL);
      try (Connection connection = H2JDBCUtils.getConnection();

        Statement statement = connection.createStatement();) {

        statement.execute(deleteTableSQL);

      } catch (SQLException e) {

        H2JDBCUtils.printSQLException(e);
      }
```