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## **JDBC ASSIGNMENT -3**

CODE:

```
package Sujit.jdbc.crud;
import java.sql.*;

class H2JDBCUtils {
    private static String jdbcURL =
"jdbc:mysql://myhost1:3306,myhost2:3307/sujit";
    private static String jdbcUsername = "sujit";
    private static String jdbcPassword = "s@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());
            }
        }
    }
}
```

```
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, "sujit");
            preparedStatement.setString(3, "hackerr@gmail.com");
            preparedStatement.setString(4, "india");
            preparedStatement.setString(5, "19500");
            System.out.println(preparedStatement);

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

            H2JDBCUtils.printStackTrace(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.printStackTrace(e);
    }
}
}
```