Task

write down a JDBC program to update or insert a record into a database using JDBC connection in java

Solution

```
import java.sql.*;

public class JDBCDemo {
  Connection conn;

  public static void main(String[] args) {
    new JDBCDemo();
  }

  public JDBCDemo() {
    try {
      Class.forName("com.mysql.jdbc.Driver").newInstance();
      String url = "jdbc:mysql://myhost/mybase";
      conn = DriverManager.getConnection(url, "username", "password");
      doTests();
      conn.close();
    } catch (ClassNotFoundException ex) {
      System.err.println(ex.getMessage());
    } catch (IllegalAccessException ex) {
      System.err.println(ex.getMessage());
    } catch (InstantiationException ex) {
      System.err.println(ex.getMessage());
    } catch (SQLException ex) {
      System.err.println(ex.getMessage());
    }
  }

  private void doTests() {
    doSelectTest();
    doInsertTest();

    doSelectTest();
    doUpdateTest();

    doSelectTest();
    doDeleteTest();

    doSelectTest();
  }

  private void doSelectTest() {
    System.out.println("[OUTPUT FROM SELECT]");
    String query = "SELECT {table_field}, {table_field} FROM {mytable}";
    try {
      Statement st = conn.createStatement();
      ResultSet rs = st.executeQuery(query);
```

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```
            String s = rs.getString("{table_field}");
            float n = rs.getFloat("{table_field}");
            System.out.println(s + "   " + n);
          }
        } catch (SQLException ex) {
          System.err.println(ex.getMessage());
        }
    }

    private void doInsertTest() {
        System.out.print("\n[Performing INSERT] ... ");
        try {
          Statement st = conn.createStatement();
          st.executeUpdate("INSERT INTO {mytable} " + "VALUES ('SomeName', 200, 7.99, 0, 0)");
        } catch (SQLException ex) {
          System.err.println(ex.getMessage());
        }
    }

    private void doUpdateTest() {
        System.out.print("\n[Performing UPDATE] ... ");
        try {
          Statement st = conn.createStatement();
          st.executeUpdate("UPDATE {mytable} SET {table_field}=4.99 WHERE
{table_field}='SomeName'");
        } catch (SQLException ex) {
          System.err.println(ex.getMessage());
        }
    }

    private void doDeleteTest() {
        System.out.print("\n[Performing DELETE] ... ");
        try {
          Statement st = conn.createStatement();
          st.executeUpdate("DELETE FROM {mytable} WHERE {table_field}='SomeName'");
        } catch (SQLException ex) {
          System.err.println(ex.getMessage());
        }
    }
}
```

Answer

```
[OUTPUT FROM SELECT]
{table_field}  cost
{table_field}  cost
{table_field}   cost
{table_field}  cost
{table_field}  cost
```