Write a JDBC program to insert a row in an interactive version?

**package** com.sssit.jdbcapp2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Scanner;

**public** **class** InsertEmployeeInInteractive {

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

Connection con = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

System.***out***.println("Connection Estd....");

Statement stmt = con.createStatement();

Scanner ip = **new** Scanner(System.***in***);

System.***out***.println("Enter Employee number:");

**int** empno = ip.nextInt();

System.***out***.println("Enter Employee Name:");

String ename = ip.next();

System.***out***.println("Enter the Designation:");

String desig = ip.next();

System.***out***.println("Enter Manager id:");

**int** mgrid = ip.nextInt();

System.***out***.println("Enter Salary:");

**double** salary = ip.nextDouble();

System.***out***.println("Enter Commission:");

**double** comm = ip.nextDouble();

System.***out***.println("Enter department number:");

**int** deptid = ip.nextInt();

**final** String SQLQUERY = "insert into employee"

+ "(empno,ename,job,mgr,sal,comm,deptno) "

+ "values(" + empno + ",'" + ename + "','" + desig + "',"

+ mgrid + "," + salary + "," + comm + "," + deptid

+ ")";

System.***out***.println(SQLQUERY);

**int** result = stmt.executeUpdate(SQLQUERY);

**if**(result>0)

System.***out***.println("Inserted successfully.....");

**else**

System.***out***.println("Insertion Failed.....");

stmt.close();

con.close();

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed in executing SQL operation");

}

}

}

Write a JDBC Program to update the employee name using employee id?

Version – 1

**package** com.sssit.jdbcapp2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Scanner;

**public** **class** UpdateNameById {

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

Connection con = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

System.***out***.println("Connection Estd....");

Statement stmt = con.createStatement();

Scanner ip = **new** Scanner(System.***in***);

System.***out***.println("Enter Employee number:");

**int** empno = ip.nextInt();

System.***out***.println("Enter Employee Name:");

String ename = ip.next();

**final** String SQLQUERY = "update employee set "

+ "ename='"+ename+"' where empno="+empno;

System.***out***.println(SQLQUERY);

**int** result = stmt.executeUpdate(SQLQUERY);

**if**(result>0)

System.***out***.println("Updated successfully.....");

**else**

System.***out***.println("Updation Failed.....");

stmt.close();

con.close();

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed in executing SQL operation");

}

}

}

Version – 2 : display the existed name in database

**package** com.sssit.jdbcapp2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Scanner;

**public** **class** UpdateNameByIdV2 {

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

Connection con = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

System.***out***.println("Connection Estd....");

Statement stmt = con.createStatement();

Scanner ip = **new** Scanner(System.***in***);

System.***out***.println("Enter Employee number:");

**int** empno = ip.nextInt();

**final** String SELECTQUERY = "select ename from employee "

+ "where empno="+empno;

System.***out***.println(SELECTQUERY);

ResultSet rs = stmt.executeQuery(SELECTQUERY);

**while**(rs.next()) {

System.***out***.println("Existed Name is:" + rs.getString(1));

}

System.***out***.println("Do you want to change the name...");

**char** ch = ip.next().charAt(0);

**if**(ch=='y' || ch=='Y') {

System.***out***.println("Enter New Employee Name:");

String ename = ip.next();

**final** String SQLQUERY = "update employee set "

+ "ename='"+ename+"' where empno="+empno;

System.***out***.println(SQLQUERY);

**int** result = stmt.executeUpdate(SQLQUERY);

**if**(result>0)

System.***out***.println("Updated successfully.....");

**else**

System.***out***.println("Updation Failed.....");

}

rs.close();

stmt.close();

con.close();

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed in executing SQL operation");

}

}

}

Version – 3 : Introduced Exception handling

**package** com.sssit.jdbcapp2;

**public** **class** EmployeeNotFoundException **extends** Exception{

**public** EmployeeNotFoundException(String msg) {

**super**(msg);

}

}

**package** com.sssit.jdbcapp2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** java.util.Scanner;

**public** **class** UpdateNameByIdV2 {

**public** **static** **final** String ***URL*** = "jdbc:oracle:thin:@localhost:1521:orcl";

**public** **static** **final** String ***UNAME*** = "advdec23";

**public** **static** **final** String ***PASS*** = "advdec23";

**public** **static** **void** main(String[] args) {

**try** {

Class.*forName*("oracle.jdbc.driver.OracleDriver");

System.***out***.println("Class Loaded successfully....");

Connection con = DriverManager.*getConnection*(***URL***, ***UNAME***, ***PASS***);

System.***out***.println("Connection Estd....");

Statement stmt = con.createStatement();

Scanner ip = **new** Scanner(System.***in***);

System.***out***.println("Enter Employee number:");

**int** empno = ip.nextInt();

**final** String SELECTQUERY = "select ename from employee "

+ "where empno="+empno;

System.***out***.println(SELECTQUERY);

ResultSet rs = stmt.executeQuery(SELECTQUERY);

**if**(rs.next()) {

System.***out***.println("Existed Name is:" + rs.getString(1));

}

**else**

{

**throw** **new** EmployeeNotFoundException(empno + " Not found in DB");

}

System.***out***.println("Do you want to change the name...");

**char** ch = ip.next().charAt(0);

**if**(ch=='y' || ch=='Y') {

System.***out***.println("Enter New Employee Name:");

String ename = ip.next();

**final** String SQLQUERY = "update employee set "

+ "ename='"+ename+"' where empno="+empno;

System.***out***.println(SQLQUERY);

**int** result = stmt.executeUpdate(SQLQUERY);

**if**(result>0)

System.***out***.println("Updated successfully.....");

**else**

System.***out***.println("Updation Failed.....");

}

rs.close();

stmt.close();

con.close();

} **catch** (ClassNotFoundException e) {

System.***out***.println("Failed to Load Driver class...");

} **catch** (SQLException e) {

System.***out***.println("Failed in executing SQL operation");

} **catch** (EmployeeNotFoundException e) {

System.***out***.println(e.getMessage());

}

}

}