**Project Name – InsertRecord**

Inserting Record – through Statement

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class SimpleInsert {

public static Connection con;

public static Statement st;

public static String url="jdbc:derby://localhost:1527/A2Database";

public static String uname="user1";

public static String password ="password1";

public static void main(String[] args) {

int id;

String name,dept,query;

int salary;

Scanner inp = new Scanner(System.in);

try{

con = DriverManager.getConnection(url,uname,password);

st = con.createStatement();

System.out.println("Enter id");

id = inp.nextInt();

inp.nextLine();

System.out.println("Enter name");

name =inp.nextLine();

System.out.println("Enter department");

dept=inp.next();

System.out.println("Enter salary ");

salary = inp.nextInt();

query = "insert into employee values ("+id+",'"+name+"',"+salary+",'"+dept+"')";

System.out.println(query);

int n = st.executeUpdate(query);

if ( n >0)

System.out.println(n+" Record inserted");

else

System.out.println("Error in insertion");

}catch(SQLException e){

System.out.println("Exception "+e);

}

}

}

Inserting Record – Prepared Statement

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class InsertRecord {

// VARIABLE USING FOR DB PROCESS

static String url="jdbc:derby://localhost:1527/A1Database";

static String uid="user1";

static String pwd="password1";

static Connection con;

static PreparedStatement ps;

// VARIABLES USING FOR PROCESS

static int id;

static String name;

static long mobinum;

static String query;

static Scanner inp=new Scanner(System.in);

public static void main(String s[]) {

int n=0;

try {

//REGISTER AND CONNECTING WITH DATABASE

System.out.println("Connecting to database...");

con=DriverManager.getConnection(url,uid,pwd);

System.out.println("connected with database");

//GETTING INPUT FROM KEYBOARD

System.out.println("Enter employee id,name,and mobile number to insert into the table");

id=inp.nextInt();

inp.nextLine();

name=inp.nextLine();

mobinum =inp.nextLong();

//QUERY PREPARATION

query="insert into usertable values(?,?,?)";

ps=con.prepareStatement(query);

ps.setInt(1, id);

ps.setString(2,name);

ps.setLong(3, mobinum);

//EXECUTE INSERT QUERY

n=ps.executeUpdate();

if (n==1)

System.out.println("1 RECORD INSERTED SUCCESSFULLY");

else

System.out.println("Unable to insert record");

con.close();

}catch(SQLException e){

System.out.println("Error in SQLException.."+e.toString());

}

}

}

Update Record

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class UpdateRecord {

// VARIABLE USING FOR DB PROCESS

static String url="jdbc:derby://localhost:1527/testDB1";

static String uid="user1";

static String pwd="password1";

static Connection con;

static PreparedStatement ps;

// VARIABLES USING FOR PROCESS

static int id;

static String name;

static long mobinum;

static String query;

static Scanner inp=new Scanner(System.in);

public static void main(String s[]) {

int n=0;

try {

//REGISTER AND CONNECTING WITH DATABASE

System.out.println("Connecting to database...");

con=DriverManager.getConnection(url,uid,pwd);

System.out.println("connected with database");

//GETTING INPUT FROM KEYBOARD

System.out.println("Enter employee id and mobile number for update");

id=inp.nextInt();

mobinum =inp.nextLong();

//QUERY PREPARATION

query="update mytable set mobinum =? where id =?";

ps=con.prepareStatement(query);

ps.setInt(2, id);

ps.setLong(1, mobinum);

//EXECUTE UPDATE QUERY

n=ps.executeUpdate();

if (n>=1)

System.out.println(n+" RECORD UPDATED SUCCESSFULLY");

else

System.out.println("NO RECORDS UPDATED");

con.commit();

ps.close();

con.close();

}catch(SQLException e){

System.out.println("Error in SQLException.."+e.toString());

}

}

}

Delete Record

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class DeleteRecord {

// VARIABLE USING FOR DB PROCESS

static String url="jdbc:derby://localhost:1527/A1Database";

static String uid="user1";

static String pwd="password1";

static Connection con;

static PreparedStatement ps;

// VARIABLES USING FOR PROCESS

static int id;

static String name;

static long mobinum;

static String query;

static Scanner inp=new Scanner(System.in);

public static void main(String s[]) {

int n=0;

try {

//REGISTER AND CONNECTING WITH DATABASE

System.out.println("Connecting to database...");

con=DriverManager.getConnection(url,uid,pwd);

System.out.println("connected with database");

//GETTING INPUT FROM KEYBOARD

System.out.println("Enter employee id to delete a record");

id=inp.nextInt();

//QUERY PREPARATION

query="delete from usertable where id =?";

ps=con.prepareStatement(query);

ps.setInt(1, id);

//EXECUTE DELETE QUERY

n=ps.executeUpdate();

if (n>=1)

System.out.println(n+" RECORD DELETED SUCCESSFULLY");

else

System.out.println("NO RECORDS DELETED");

con.commit();

ps.close();

con.close();

}catch(SQLException e){

System.out.println("Error in SQLException.."+e.toString());

}

}

}

View Records(PreparedStatement) only in forward direction

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class SelectRecords {

// VARIABLE USING FOR DB PROCESS

static String url="jdbc:derby://localhost:1527/A1Database";

static String uid="user1";

static String pwd="password1";

static Connection con;

static PreparedStatement ps;

static ResultSet rs;

// VARIABLES USING FOR PROCESS

static int id;

static String name;

static long mobinum;

static String query;

static Scanner inp=new Scanner(System.in);

public static void main(String s[]) {

int n=0;

try {

//REGISTER AND CONNECTING WITH DATABASE

System.out.println("Connecting to database...");

con=DriverManager.getConnection(url,uid,pwd);

System.out.println("connected with database");

//QUERY PREPARATION

query="select \* from usertable ";

ps = con.prepareStatement(query);

//EXECUTE SELECT QUERY

rs = ps.executeQuery();

//DISPLAY THE RECORDS ONE BY ONE

while(rs.next())

System.out.println("Id - "+rs.getInt("id")+" Name - "+rs.getString(2)+" Mobile Number - "+rs.getLong(3));

con.close();

}catch(SQLException e){

System.out.println("Error in SQLException.."+e.toString());

}

}

}

View Records (with Statement – Scrollable record set)

package insertrecord;

import java.sql.\*;

import java.util.Scanner;

public class ViewRecords {

// VARIABLE USING FOR DB PROCESS

static String url="jdbc:derby://localhost:1527/A1Database";

static String uid="user1";

static String pwd="password1";

static Connection con;

static Statement st;

static ResultSet rs;

// VARIABLES USING FOR PROCESS

static int id;

static String name;

static long mobinum;

static String query;

static Scanner inp=new Scanner(System.in);

public static void main(String s[]) {

int n=0;

try {

//REGISTER AND CONNECTING WITH DATABASE

System.out.println("Connecting to database...");

con=DriverManager.getConnection(url,uid,pwd);

System.out.println("connected with database");

//QUERY PREPARATION

query="select \* from usertable ";

st = con.createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE, ResultSet.CONCUR\_READ\_ONLY);

//EXECUTE SELECT QUERY

rs = st.executeQuery(query);

//DISPLAY THE RECORDS FORWARD

System.out.println("Displaying records in forward direction....");

while(rs.next())

System.out.println("Id - "+rs.getInt("id")+" Name - "+rs.getString(2)+" Mobile Number - "+rs.getLong(3));

System.out.println("\nDisplaying records in backward direction....");

while(rs.previous())

System.out.println("Id - "+rs.getInt("id")+" Name - "+rs.getString(2)+" Mobile Number - "+rs.getLong(3));

rs.absolute(2);

System.out.println("...Id - "+rs.getInt("id")+" Name - "+rs.getString(2)+" Mobile Number - "+rs.getLong(3));

con.close();

}catch(SQLException e){

System.out.println("Error in SQLException.."+e.toString());

}

}

}