Experiment 3:

Aim :

To create a table and perform database transactions on MySQL database

Program:

Table creation:

**CREATE** **TABLE** emp(

    eno **int** NOT NULL ,

**name** **varchar**(45) NOT NULL,

    age **int** NOT NULL,

**PRIMARY** **KEY** (eno)

);

import java.sql.\*;

import java.util.\*;

public class temp2 {

public static void main(String[] args) {

try{

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/god?characterEncoding=latin1","root","admin123");

Statement stmt=con.createStatement();

int ans=1;

do {

System.out.println("1. Insert a record ");

System.out.println("2. Delete a record ");

System.out.println("3. Modify/Edit a record ");

System.out.println("4. Display list of records ");

Scanner sc = new Scanner(System.in);

System.out.println("Enter your choice:");

int ch = sc.nextInt();

String ename;

int eno,age;

String query="";

switch(ch) {

case 1:

System.out.println("Enter employee number:");

eno = sc.nextInt();

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

ename = sc.next();

System.out.println("Enter employee age:");

age = sc.nextInt();

query = "INSERT INTO emp " + "VALUES (" + eno+ ",'" + ename+"',"+ age+")";

stmt.executeUpdate(query);

break;

case 2:

System.out.println("Enter employee number:");

eno = sc.nextInt();

query = "delete from emp where eno='"+eno+"'";

stmt.executeUpdate(query);

System.out.println("Record is deleted from the table successfully..................");

break;

case 3:

PreparedStatement ps = null;

query = "update emp set name=? where eno=? ";

ps = con.prepareStatement(query);

System.out.println("Enter employee number:");

eno = sc.nextInt();

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

ename = sc.next();

ps.setString(1, ename);

ps.setInt(2, eno);

ps.executeUpdate();

System.out.println("Record is updated successfully......");

break;

case 4:

ResultSet rs=stmt.executeQuery("select \* from emp");

while(rs.next())

System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getInt(3));

}

System.out.println("Enter another(1/0)");

ans = sc.nextInt();

}while(ans==1);

con.close();

}catch(Exception e){ System.out.println(e);}

}

}

Result:

Thus the table has been created using MySQL and perform data manipulations with the database.