**Exp.No. 4 Create Maven Build Java Program with database and Hibernate Application**

**Date:**

**Aim:** To create a Maven build java program in Eclipse ICE

**Requirements:**

* Java
* Maven installed
* Eclipse IDE
* Hibernate installed

1. Develop an application to create a Database application access using Maven build automation application

**Program:**

package aaa.bbb.MavenProj1;

import java.sql.\*;

public class DBProg1 {

public static void main(String[] args)

{

try{

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

Connection con=DriverManager.*getConnection*("jdbc:mysql://localhost:3306/paul","root","root");

Statement stmt=con.createStatement();

stmt.executeUpdate("insert into emp3 values(103,'Sathish','#4 Nagu vilas');");

ResultSet rs=stmt.executeQuery("select \* from emp3");

while(rs.next())

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

con.close();

}

catch(Exception e)

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

} }

}

**Database Queries:**

mysql> use paul

Database changed

mysql> create table emp3(regno int(5), name varchar(20), addr varchar(20));

Query OK, 0 rows affected (0.04 sec)

mysql> select \* from emp3;

Empty set (0.01 sec)

mysql> insert into emp3 values(101,'Raj','10/1 Raghu street');

Query OK, 1 row affected (0.01 sec)

mysql> insert into emp3 values(102,'Naveen','324-Ranga street');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from emp3;

+-------+--------+-------------------+

| regno | name | addr |

+-------+--------+-------------------+

| 101 | Raj | 10/1 Raghu street |

| 102 | Naveen | 324-Ranga street |

+-------+--------+-------------------+

2 rows in set (0.00 sec)

1. Develop an application to create a Hibernate application to write a query using Maven build automation application

User.java

package mypack;

public class user {

private int id;

private String name;

public int getid()

{ return id;

}

public void setid(int id)

{ this.id=id;

}

public String getname()

{ return name;

}

public void setname(String name)

{ this.name=name;

}}

Main1.java

package mypack;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;

public class main1

{ public static void main(String a[])

{ Configuration con=new Configuration();

con.configure("hibernate.cfg.xml");

SessionFactory sf=con.buildSessionFactory();

Session session=sf.openSession();

Transaction tx=session.beginTransaction();

user u=new user(); u.setid(101); u.setname("Paul");

session.save(u);

tx.commit();

} }

Hibernate.cfg.xml

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<property name="hbm2ddl.auto">update</property>

<property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>

<property name="hibernate.connection.url">jdbc:mysql://localhost:3306/paul</property>

<property name="hibernate.connection.username">root</property>

<property name="hibernate.connection.password">root</property>

<property name="hibernate.connection.driver\_class">com.mysql.jdbc.Driver</property>

<property name="show\_sql">true</property>

<property name="format\_sql">true</property>

<mapping resource="user.hbm.xml"/>

</session-factory>

</hibernate-configuration>

**Conclusion:**

Thus the program for creating and executing maven with database and hibernate was executed successfully