Classes

```java
package com.ecommerce;

public class Classes {
private int ID;
private String classname;

public Classes() {

}
public Classes(String classname) {
    super();
    this.classname = classname;

}
public int getID() {
    return ID;
}
public void setID(int iD) {
    ID = iD;
}
public String getClassname() {
    return classname;
}
public void setClassname(String classname) {
    this.classname = classname;
}


}
```

ClassReport

```java
package com.ecommerce;


import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

import java.util.Set;


import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;
```

```java
import org.hibernate.Session;

import org.hibernate.SessionFactory;


/**
 * Servlet implementation class ClassReport
 */
@WebServlet(name = "ClassReports", urlPatterns = { "/ClassReports" })
public class ClassReport extends HttpServlet {
        private static final long serialVersionUID = 1L;


  /**
   * @see HttpServlet#HttpServlet()
   */
  public ClassReport() {
    super();
    // TODO Auto-generated constructor stub
  }
        /**
         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
         */
        protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
                try {
                        SessionFactory factory = HibernateUtil.getSessionFactory();
                        Session session = factory.openSession();
                        List<Teacher> list = session.createQuery("from Teacher").list();
                        PrintWriter out = response.getWriter();
                        out.println("<html><body>");
                        out.println("Hibernate Session opened for School Details <br>");
                        out.println("<b>Student Details</b><br>");
                        for (Teacher t : list) {
```

```java
                                        out.println("ID:"+ String.valueOf(t.getID())+  "Name:"+t.getName()+
"Age:"+t.getAge());


                                Set<Student> student = t.getStudent();
                out.println(", student : ");
                for (Student s : student) {
                        out.print(s.getName() + " ");
                }

                                        Set<Subjects> subjects =  t.getSubjects();
                out.println(", subject : ");
                for (Subjects o : subjects) {
                        out.print(o.getName() + " ");
                }
                Set<Classes> classes = t.getClasses();
                out.println(", classes : ");
                for (Classes c : classes) {
                        out.print(c.getClassname() + " ");
                }

                                }
                out.println("<html><body>");
        out.println("<b>Hibernate Session Closed</b> <br>");
        session.close();
        }catch (Exception e) {
                e.printStackTrace();
        }
    }
                        /**
    * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
    */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
```

```java
            // TODO Auto-generated method stub

            doGet(request, response);

    }

    }
```

Student

```java
package com.ecommerce;

public class Student {
private int ID;
private String name;
private int classes;

public Student() {

}
public Student(String name, int classes) {
        super();
        this.name = name;
        this.classes = classes;

}
public int getID() {
        return ID;
}
public void setID(int iD) {
        ID = iD;
}
public String getName() {
        return name;
}
public void setName(String name) {
        this.name = name;
}
public int getClasses() {
        return classes;
}
public void setClasses(int classes) {
        this.classes = classes;
}

}
```

Subjects

```java
package com.ecommerce;

public class Subjects {
private int ID;
private String name;
public Subjects() {

}
public Subjects(String name) {
```

```java
        super();
        this.name = name;
    }
    public int getID() {
        return ID;
    }
    public void setID(int iD) {
        ID = iD;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }


}
```

Teacher

```java
package com.ecommerce;


import java.util.Set;


public class Teacher {
private int ID;
private String name;
private int age;
private Set<Subjects> subjects;
private Set<Classes> classes;
private Set<Student> student;
public Teacher() {

}
public int getID() {
        return ID;
}
public void setID(int iD) {
        ID = iD;
}
public String getName() {
        return name;
}
public void setName(String name) {
        this.name = name;
}
public int getAge() {
        return age;
}
public void setAge(int age) {
        this.age = age;
}
public Set<Subjects> getSubjects() {
        return subjects;
}
public void setSubjects(Set<Subjects> subjects) {
        this.subjects = subjects;
```

```java
}
public Set<Classes> getClasses() {
      return classes;
}
public void setClasses(Set<Classes> classes) {
      this.classes = classes;
}
public Set<Student> getStudent() {
      return student;
}
public void setStudent(Set<Student> student) {
      this.student = student;
}

}
```

Index.html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>LearnersAcademy</title>
</head>
<body>
<a href="details">School Details</a><br>
</body>
</html>
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID" version="3.1">
  <display-name>LearnersAcademy</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>

  <servlet>
    <servlet-name>ClassReport</servlet-name>
    <servlet-class>com.ecommerce.ClassReport</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ClassReport</servlet-name>
    <url-pattern>/details</url-pattern>
  </servlet-mapping>

</web-app>
```

Hibernate.cfg.xml

```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>
    <!-- Database connection settings -->
    <property name="connection.driver_class">com.mysql.jdbc.Driver</property>
    <property
name="connection.url">jdbc:mysql://localhost:3306/ecommerce</property>
    <property name="connection.username">root</property>
    <property name="connection.password">ariharan</property>
    <mapping resource="Student.hbm.xml"/>
    <mapping resource="Classes.hbm.xml"/>
    <mapping resource="Subjects.hbm.xml"/>
    <mapping resource="Teacher.hbm.xml"/>

  </session-factory>
</hibernate-configuration>
```

Teacher.hbm.xml

```xml
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping package="com.ecommerce">
    <class name="com.ecommerce.Teacher" table="teacher">
        <id name="ID" type="int" column="ID">
            <generator class="identity"/>
        </id>
        <property name="name" type="string" column="name"/>
        <property name="age" type="int" column="age"/>


 <set name = "student" cascade="all" lazy="true">
                    <key column = "teacher_ID"/>
                    <one-to-many class="Student"/>
        </set>

        <set name="subjects" cascade="all" lazy="true">
            <key column="teacher_ID"></key>
             <one-to-many class="com.ecommerce.Subjects"/>
         </set>



        <set name="classes" cascade="all" lazy="true">
            <key column="teacher_ID"></key>
             <one-to-many class="com.ecommerce.Classes"/>
         </set>


 </class>
</hibernate-mapping>
```

Classes.hbm.xml

```xml
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
```

```xml
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping package="com.ecommerce">
    <class name="com.ecommerce.Classes" table="classes">
        <id name="ID" type="int" column="ID">
            <generator class="identity"/>
        </id>
        <property name="classname" type="string" column="classname"/>

    </class>
</hibernate-mapping>
```

Student.hbm.xml

```xml
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping package="com.ecommerce">
    <class name="com.ecommerce.Student" table="student">
        <id name="ID" type="int" column="ID">
            <generator class="identity"/>
        </id>
        <property name="name" type="string" column="name"/>
        <property name="classes" type="int" column="class"/>

    </class>
</hibernate-mapping>
```

Subjects.hbm.xml

```xml
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
"-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping package="com.ecommerce">
    <class name="com.ecommerce.Subjects" table="subjects">
        <id name="ID" type="int" column="ID">
            <generator class="identity"/>
        </id>
        <property name="name" type="string" column="name"/>

    </class>
</hibernate-mapping>
```