

LAB 7: HIBERNATE

Mục tiêu:

Kết thúc bài thực hành này bạn có khả năng

✓ Tạo web app Hibernate – MVC có các chức năng thêm, xóa, sửa, update, tìm kiếm

PHẦN I

Bài 1: Tạo web app dùng hibernate - MVC có các chức năng như sau(6 điểm)

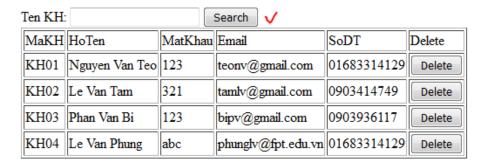


Khach hang

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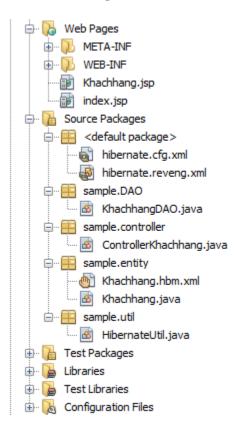


Hello World!

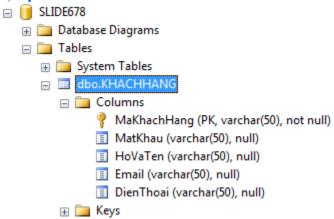




Cấu trúc chương trình



1, Tao Database

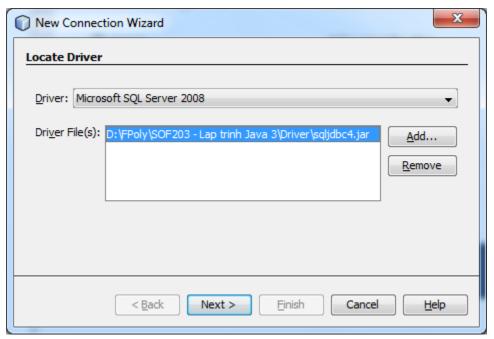




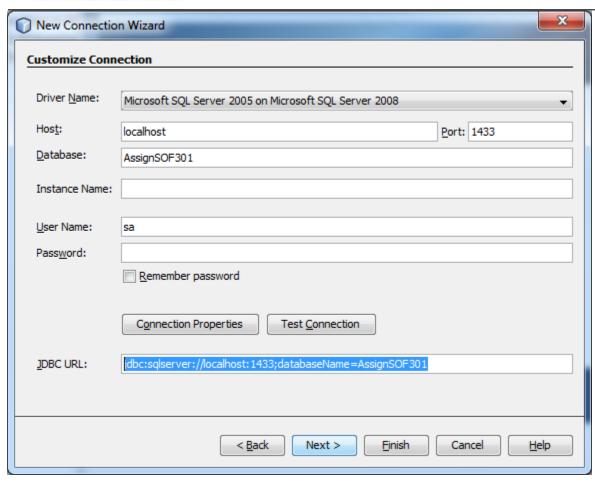


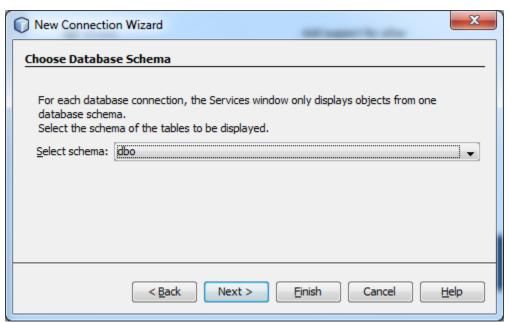
2, Tạo kết nối



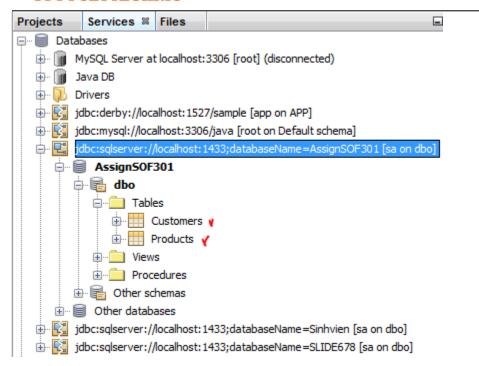




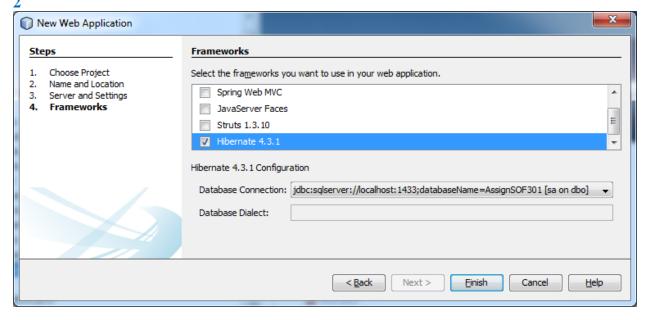






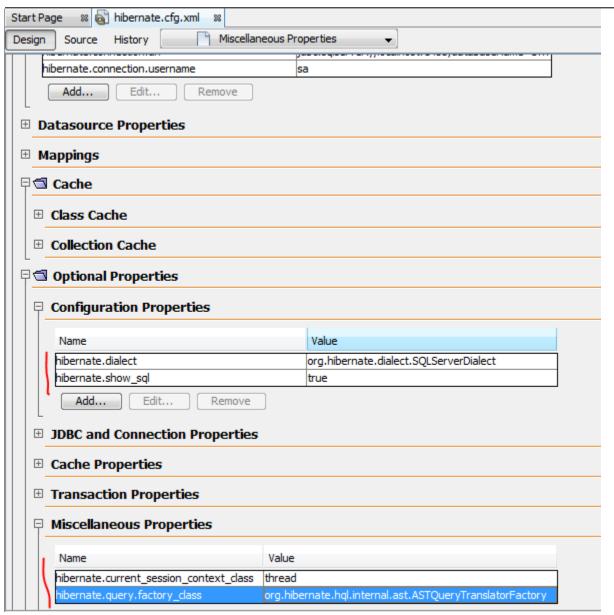


3, Tạo Project mới như các lab trước, phần Frameworks, chọn Hibernate và chuổi kết nối đã tạo ở bước



4, Edit file hibernate.cfg.xml như hình





Xem file dạng xml, chọn tab source

- <?xml version="1.0" encoding="UTF-8"?>
- <!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN" "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">
- <hibernate-configuration>
- <session-factory>
- property
- name="hibernate.connection.driver_class">com.microsoft.sqlserver.jdbc.SQLServerDriver</property> cproperty
- name="hibernate.connection.url">jdbc:sqlserver://localhost:1433;databaseName=SLIDE678</property>
 - cproperty name="hibernate.connection.username">sa

 - cproperty name="hibernate.show_sql">true/property>



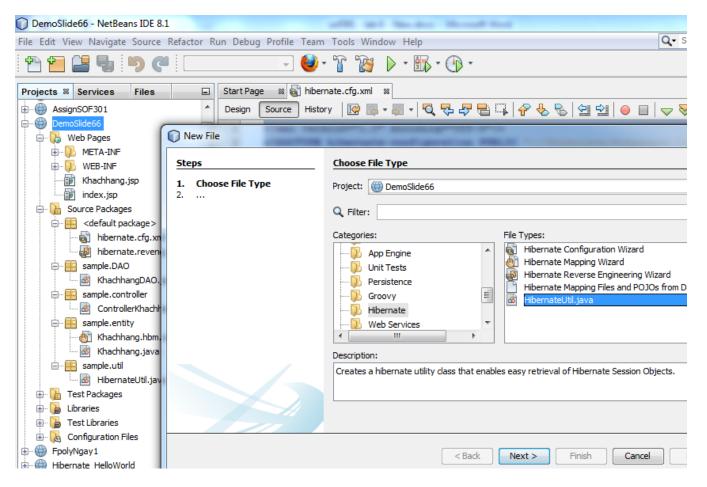
property

name="hibernate.query.factory_class">org.hibernate.hql.internal.ast.ASTQueryTranslatorFactory</property> <mapping resource="sample/entity/Khachhang.hbm.xml"/>

</session-factory>

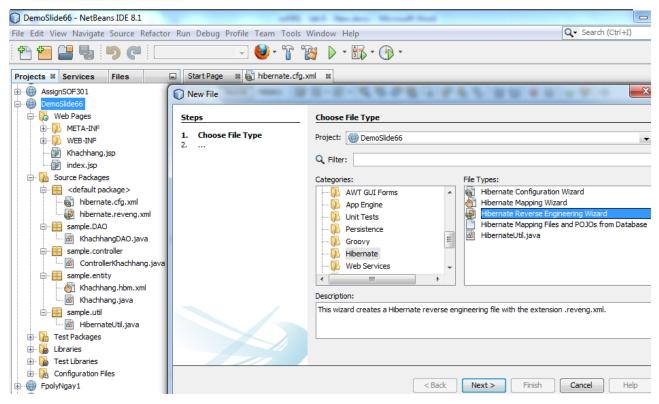
</hibernate-configuration>

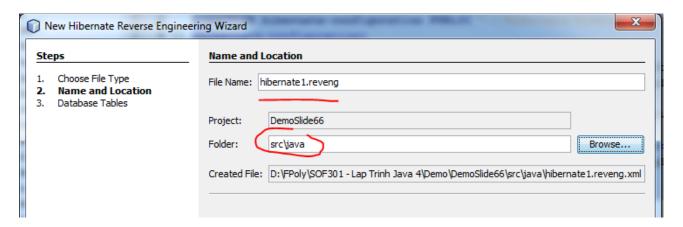
5, Tao file HibernateUtil.java trong packages sample.util



6, Tao file Hibernate.reveng.xml

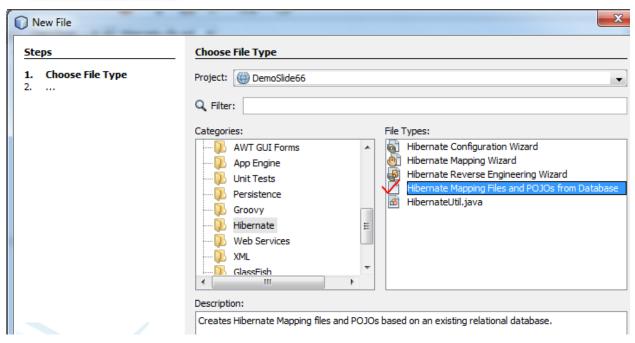


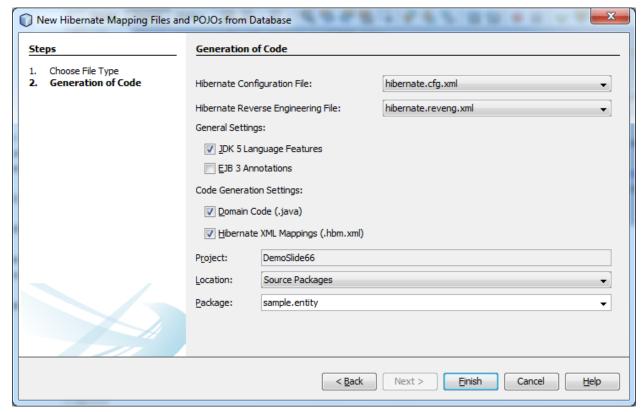




7, Tao file Hibernate Mapping File trong packages sample.entity







8, Tao class KhachhangDAO.java trong packages sample.dao



```
4
History 🔯 🖫 - 🖫 - 💆 🚭 🖶 🖺 🕌 🗳 😓 🖢 🖆 🎒 🔴 🔲 📲 🚅
      public class KhachhangDAO {
19
           public static List<Khachhang> layDanhSachKH(String tenkh) {
              List<Khachhang> list = null;
              Session session = HibernateUtil.getSessionFactory().getCurrentSession();
21
22
              session.beginTransaction();
23
              String sql="from Khachhang";
24
              if(tenkh.length()>0){
                  sql += " where hoVaTen like '%"+tenkh+"%'";
25
26
27
              Query query = session.createQuery(sql);
28
              list = query.list();
29
              return list;
30
   31
          public KhachhangDAO() {
32
          public static boolean xoaKhachHang(String maKhachHang)
33
   34
35
              Khachhang kh = KhachhangDAO.layThongTinKH(maKhachHang);
              if(kh == null)
36
37
                  return false;
38
              Session session=HibernateUtil.getSessionFactory().getCurrentSession();
39
              try {
40
                  session.getTransaction().begin();
41
                  session.delete(kh);
42
                  session.getTransaction().commit();
43
                  return true;
              } catch (Exception e) {
44
45
                  session.getTransaction().rollback();
                  System.out.print(e);
46
47
                  return false;
48
49
50
   public static Khachhang layThongTinKH(String makh) {
51
              Session session = HibernateUtil.getSessionFactory().openSession();
52
              session.beginTransaction();
53
              Khachhang kh = (Khachhang) session.get(Khachhang.class, makh);
54
              session.close();
55
              return kh;
56
57
```

9, Trang index.jsp



```
4 >
Start Page 🔞 📦 hibernate.cfg.xml 🚳 🙆 KhachhangDAO.java 🚳 📦 Khachhang.jsp 🚳 📦 index.jsp 🔉
Source History 👺 🖫 🔻 🔻 💆 🗸 🔁 📑 🔐 🔗 😓 🖭 🖭 🥚 🗌
     <%@page import="sample.DAO.KhachhangDAO"%>
 6
     <%@page import="java.util.List"%>
 8
     <%@page import="sample.entity.Khachhang"%>
     <%@page contentType="text/html" pageEncoding="UTF-8"%>
10
     <!DOCTYPE html>
11 📮 <html>
  中
12
         <head>
            <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
13
14
            <title>JSP Page</title>
15
         </head>
  占
16
         <body>
17
            <h1>Khach hang</h1>
18
  卓
            19
                20
                   MaKH
21
                   HoTen
22
                   MatKhau
23
                   Email
24
                   SoDT
25
                26
            <%
27
                List<Khachhang> list= KhachhangDAO.layDanhSachKH("");
28
                for(Khachhang kh:list){
29
                   out.println(""+kh.getMaKhachHang()+""+kh.getHoVaTen()+
30
                          ""+kh.getMatKhau()+""+kh.getEmail()+""+
31
                          kh.getDienThoai()+"");
32
33
            %>
34
            35
         </body>
36
     </html>
```

10, Trang Khachhang.jsp



```
Start Page 🔞 👸 hibernate.cfg.xml 🔉 🙆 KhachhangDAO.java 🕸 🗊 Khachhang.jsp 💸 🗊 index.jsp 🕸
                                                                                 4
Source History 👺 🖫 - 💹 - 💆 🞝 😓 🔛 🕌 🧘 🤡 🖆 📦
16
            <h1>Hello World!</h1>
17 🛱
            <form action="ControllerKhachhang">
18
               Ten KH: <input type="text" name="txtTenKH" value=""/>
19
               <input type="submit" name="action" value="Search"/>
20
            </form>
            21
22
               23
                   MaKH
24
                   HoTen
25
                   MatKhau
                   Email
26
                   SoDT
27
28
                   Delete
               29
30
               <c:forEach var="rows" items="${listKH}">
31
                   <form action="ControllerKhachhang">
32
33
                      ${rows.maKhachHang}
34
                      ${rows.hoVaTen}
35
                      ${rows.matKhau}
36
                      ${rows.email}
                      ${rows.dienThoai}
37
38
                          <input type="hidden" name="txtMaKH" value="${rows.maKhachHang}"/>
39
                          <input type="submit" name="action" value="Delete"/>
40
41
                      42
                   43
                   </form>
               </c:forEach>
44
 Q
            </body>
46
```

11, Controller Controller Khachhang, java



```
Start Page 🐉 🔊 hibernate.cfg.xml 🐉 🐼 KhachhangDAO.java 🐉 📝 Khachhang.jsp 🐉 🎉 index.jsp 🐉 🐼 ControllerKhachhang.java
      History | 👺 🖫 - 🐺 - | 🔩 😓 😓 | 🚰 🚭 | 🚱 🖢 🖳 | 🔐 🚅
Source
 34
 35
            protected void processRequest(HttpServletRequest request, HttpServletResponse response)
 36
    throws ServletException, IOException {
 37
                response.setContentType("text/html;charset=UTF-8");
 38
                PrintWriter out = response.getWriter();
 39
                try{
 40
                    String action = request.getParameter("action");
 41
                    if (action.equals("Search")) {
 42
                        String tenkh = request.getParameter("txtTenKH");
 43
                        List<Khachhang> list = KhachhangDAO.layDanhSachKH(tenkh);
                        request.setAttribute("listKH", list);
 44
 45
                        String url="Khachhang.jsp";
                        RequestDispatcher rd = request.getRequestDispatcher(url);
 46
 47
                        rd.forward(request, response);
 48
                    }else if(action.equals("Delete")){
 49
                        String makh = request.getParameter("txtMaKH");
 50
                        boolean daxoa = KhachhangDAO.xoaKhachHang(makh);
 51
                        if (daxoa) {
                            String url="ControllerKhachhang?txtTenKH=&action=Search";
 52
                            RequestDispatcher rd = request.getRequestDispatcher(url);
 53
 54
                            rd.forward(request, response);
 55
 56
  8
                }catch(Exception e) {
  ₽
                    e.printStackTrace();
 59
 60
 61
 62 +
           HttpServlet methods. Click on the + sign on the left to edit the code.
100
101
```

PHẦN II

Bài 2: Phát triển thêm chức năng insert và update cho ứng dụng trên(4 điểm)