

CS544 EA Hibernate

Basic Example

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- The following example is similar to what we will use in the labs
 - Not very real world
 - not part of a big N-Tier application
 - Simple console app
 - Easy to understand
 - Easy to test / practice with individual features
 - You should never write real Hibernate code like this!

```
import javax.persistence.Entity;
package cs544.hibernate01.basic;
                                                                                import javax.persistence.GeneratedValue;
                                                                                import iavax.persistence.Id:
import iava.util.List:
                                                                                @Entity
import javax.persistence.EntityManager;
                                                                                public class Customer {
import javax.persistence.EntityManagerFactory;
                                                                                      @Id
import javax.persistence.Persistence;
                                                                                      @GeneratedValue
import iavax.persistence.TypedOuery:
                                                                                      private Long id;
                                                                                      private String firstName;
public class App {
                                                                                      private String lastName;
      private static EntityManagerFactory emf;
      public static void main(String[] args) throws Exception {
            /* Reads persistence.xml and looks for specified unit name */
            emf = Persistence.createEntityManagerFactory("cs544.01.basic");
            EntityManager em = emf.createEntityManager();
            em.getTransaction().begin();
            Customer c = new Customer("Jack", "Welsh");
                                                                                             Customer Table
            em.persist(c);
            em.getTransaction().commit();
                                                                                                 firstName lastName
            em.getTransaction().begin();
                                                                                                 Jack
                                                                                                           Welsh
            TypedQuery<Customer> q = em.createQuery("from Customer", Customer.class);
            List<Customer> customers = q.getResultList();
            for (Customer c2 : customers) {
                  System.out.println(c2.getFirstName() + " " + c2.getLastName());
                                                                                               Jack Welsh
            em.getTransaction().commit();
            emf.close():
```

package cs544.hibernate01.basic:

Persistence.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<persistence xmlns="http://xmlns.jcp.org/xml/ns/persistence"</pre>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence
      http://xmlns.jcp.org/xml/ns/persistence/persistence 2 1.xsd"
      version="2.1">
  <persistence-unit name="cs544.01.basic">
    <description>
      Persistence unit for Hibernate
    </description>
    coroperties>
      property name="javax.persistence.jdbc.user" value="root"/>
      cproperty name="javax.persistence.schema-generation.database.action" value="drop-and-create"/>
      property name="hibernate.show sql" value="true" />
      property name="hibernate.format sql" value="true" />
    </persistence-unit>
</persistence>
```