也可以通过 Orders 来设置 Customer 的延迟加载, orders.hbm.xml 中进行设置。

```
<many-to-one name="customer" class="com.southwind.entity.Customer"
column="cid" lazy="proxy"></many-to-one>
```

```
package com.southwind.test;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test5 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Orders orders = session.get(Orders.class,26);
        System.out.println(orders);
        session.close();
   }
}
```

```
Hibernate:
select
orders0_.id as id1_2_0_,
orders0_.name as name2_2_0_,
orders0_.cid as cid3_2_0_
from
orders orders0_
where
orders0_.id=?
Orders{id=26, name='订单1'}
```

```
package com.southwind.test;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test5 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Orders orders = session.get(Orders.class,26);
        System.out.println(orders.getCustomer());
        session.close();
    }
}
```

```
INFO: HHH000490: Using JtaPlatform implementation:
Hibernate:
    select
        orders0_.id as id1_2_0_,
        orders0_.name as name2_2_0_,
        orders0_.cid as cid3_2_0_
    from
        orders orders0
    where
        orders0 .id=?
Hibernate:
    select
        customer0_.id as id1_1_0_,
        customer0_.name as name2 1 0
        customer customer0_
    where
        customer0 .id=?
Customer{id=15, name='张三'}
```

no-proxy: 当调用方法需要访问 customer 的成员变量时,发送 SQL 语句查询 Customer,否则不查询。

proxy: 无论调用方法是否需要访问 customer 的成员变量,都会发送 SQL 语句查询 Customer。

多对多

查询 Course, 加载对应的 Account, 默认延迟加载开启。

```
package com.southwind.test;
import com.southwind.entity.Course;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test6 {
    public static void main(String[] args) {
        //创建 Configuration
       Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
       SessionFactory = configuration.buildSessionFactory();
        //获取 Session
       Session session = sessionFactory.openSession();
       Course course = session.get(Course.class,5);
       System.out.println(course);
       session.close();
   }
}
```

```
Hibernate:
    select
    course0_.id as id1_5_0_,
    course0_.name as name2_5_0_

from
    t_course course0_
where
    course0_.id=?
Course{id=5, name='Java'}
```

```
package com.southwind.test;

import com.southwind.entity.Course;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
```

```
public class Test6 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new

Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();

        Course course = session.get(Course.class,5);
        System.out.println(course.getAccounts());

        session.close();
    }
}
```

```
Hibernate:
    select
        course0_.id as id1_5_0_,
        course0_.name as name2_5_0_
    from
        t_course course0_
    where
        course0_.id=?
Hibernate:
    select
        accounts0_.cid as cid2_0_0_,
        accounts0_.aid as aid1_0_0_,
        account1_.id as id1_4_1_,
        account1_.name as name2_4_1_
    from
        account_course accounts0_
    inner join
        t_account account1_
            on accounts0_.aid=account1_.id
    where
```

```
package com.southwind.test;
import com.southwind.entity.Course;
```

```
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test6 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Course course = session.get(Course.class,5);
        System.out.println(course);
        session.close();
   }
}
```

```
Hibernate:
    select
        course0_id as id1_5_0_,
        course0_.name as name2_5_0_
    from
        t_course course0_
    where
        course0_.id=?
Hibernate:
    select
        accounts0_.cid as cid2_0_0_,
        accounts0_.aid as aid1_0_0_,
        account1_id as id1_4_1_,
        account1_.name as name2_4_1_
    from
        account_course accounts0_
    inner join
        t_account account1_
            on accounts0_.aid=account1_.id
    where
```

```
import com.southwind.entity.Account;
import com.southwind.entity.Course;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test7 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Account account = session.get(Account.class,5);
        System.out.println(account);
        session.close();
   }
}
```

```
Hibernate:
select
account0_.id as id1_4_0_,
account0_.name as name2_4_0_
from
t_account account0_
where
account0_.id=?
Account{id=5, name='张三'}
```

```
import com.southwind.entity.Account;
import com.southwind.entity.Course;
import com.southwind.entity.Course;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;

public class Test7 {
    public static void main(String[] args) {
        //创建 Configuration
```

```
Configuration configure("hibernate.xml");

//获取 SessionFactory
SessionFactory sessionFactory = configuration.buildSessionFactory();

//获取 Session
Session session = sessionFactory.openSession();

Account account = session.get(Account.class,5);
System.out.println(account.getCourses());

session.close();
}
```

```
Hibernate:
    select
    account0_.id as id1_4_0_,
    account0_.name as name2_4_0_
    from
    t_account account0_
    where
    account0_.id=?
```

```
Hibernate:
    select
        courses0_.aid as aid1_0_0_,
        courses0_.cid as cid2_0_0_,
        course1_.id as id1_5_1_,
        course1 .name as name2 5 1
    from
        account_course courses0_
    inner join
        t course course1
            on courses0_.cid=course1_.id
    where
        courses0 .aid=?
Hibernate:
    select
        accounts0_.cid as cid2_0_0_,
        accounts0_.aid as aid1_0_0_,
        account1_.id as id1_4_1_,
        account1_.name as name2_4_1_
    from
```

```
account_course accounts0_
inner join
    t_account account1_
        on accounts0_.aid=account1_.id
    where
    accounts0_.cid=?
[Course{id=5, name='Java'}]
```

```
package com.southwind.test;
import com.southwind.entity.Account;
import com.southwind.entity.Course;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test7 {
   public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Account account = session.get(Account.class,5);
        System.out.println(account);
        session.close();
   }
}
```

```
Hibernate:
    select
    account0_.id as id1_4_0_,
    account0_.name as name2_4_0_
    from
    t_account account0_
    where
    account0_.id=?
```

```
Hibernate:
    select
        courses0_.aid as aid1_0_0_,
        courses0_.cid as cid2_0_0_,
        course1_.id as id1_5_1_,
        course1_.name as name2_5_1_
        from
        account_course courses0_
    inner join
        t_course course1_
        on courses0_.cid=course1_.id
    where
        courses0_.aid=?
```

```
Hibernate:
select
accounts0_.cid as cid2_0_0_,
accounts0_.aid as aid1_0_0_,
account1_.id as id1_4_1_,
account1_.name as name2_4_1_
from
account_course accounts0_
inner join
t_account account1_
on accounts0_.aid=account1_.id
where
accounts0_.cid=?
Account{id=5, name='张三'}
```

Hibernate 配置文件

- hibernate.xml
- hbm.xml

Hibernate.xml

hibernate.xml 配置 Hibernate 的全局环境。

```
<?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>
       <!-- 数据源配置 -->
       connection.username">root
       cproperty name="connection.password">root/property>
       property
name="connection.driver class">com.mysql.cj.jdbc.Driver/property>
       property name="connection.url">jdbc:mysql://localhost:3306/test?
useUnicode=true&characterEncoding=UTF-8</property>
       <!-- C3P0 -->
       property name="hibernate.c3p0.acquire increment">10/property>
       roperty name="hibernate.c3p0.idle_test_period">10000/property>
       cproperty name="hibernate.c3p0.timeout">5000</property>
       cproperty name="hibernate.c3p0.max_size">30</property>
       cproperty name="hibernate.c3p0.min_size">5</property>
       cproperty name="hibernate.c3p0.max_statements">10/property>
       <!-- 数据库方言 -->
       cyroperty name="dialect">org.hibernate.dialect.MySQLDialect/property>
       <!-- 打印SOL -->
       cproperty name="show sql">true</property>
       <!-- 格式化SQL -->
       roperty name="format sql">true
       <!-- 是否自动生成数据库 -->
       property name="hibernate.hbm2ddl.auto">
       <!-- 注册实体关系映射文件 -->
       <mapping resource="com/southwind/entity/People.hbm.xml"></mapping>
       <mapping resource="com/southwind/entity/Customer.hbm.xml"></mapping>
       <mapping resource="com/southwind/entity/Orders.hbm.xml"></mapping>
       <mapping resource="com/southwind/entity/Account.hbm.xml"></mapping>
       <mapping resource="com/southwind/entity/Course.hbm.xml"></mapping>
   </session-factory>
</hibernate-configuration>
```

1、数据库的基本信息。

2、集成 C3P0, 设置数据库连接池信息。

3、Hibernate 基本信息。

```
<!-- 数据库方言 -->
<!-- 数据库方言 -->
c!-- 打印SQL -->
cproperty name="show_sql">true
/property>
<!-- 格式化SQL -->
cproperty name="format_sql">true
/property>
<!-- 是否自动生成数据库 -->
cproperty name="hibernate.hbm2ddl.auto">
/property>
```

- update: 动态创建表,如果表存在,则直接使用,如果表不存在,则创建。
- create: 无论表是否存在,都会重新创建。
- create-drop:初始化创建表,程序结束时删除表。
- validate: 校验实体关系映射文件和数据表是否对应,不能对应直接报错。
- 4、注册实体关系映射文件。

```
<!-- 注册实体关系映射文件 -->
<mapping resource="com/southwind/entity/People.hbm.xml"></mapping>
<mapping resource="com/southwind/entity/Customer.hbm.xml"></mapping>
<mapping resource="com/southwind/entity/Orders.hbm.xml"></mapping>
<mapping resource="com/southwind/entity/Account.hbm.xml"></mapping>
<mapping resource="com/southwind/entity/Account.hbm.xml"></mapping>
<mapping resource="com/southwind/entity/Course.hbm.xml"></mapping>
```

实体关系映射文件

```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD
3.0//EN"
        "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
    <class name="com.southwind.entity.Course" table="t_course">
        <id name="id" type="java.lang.Integer">
            <column name="id"></column>
            <generator class="identity"></generator>
        </id>
        roperty name="name" type="java.lang.String">
            <column name="name"></column>
        </property>
        <set name="accounts" table="account course" lazy="false">
            <key column="cid"></key>
            <many-to-many class="com.southwind.entity.Account" column="aid">
</many-to-many>
       </set>
   </class>
</hibernate-mapping>
```

hibernate-mapping 属性

• package:给 class 节点对应的实体类统一设置包名,此处设置包名,class 的 name 属性就可以省略包名。

schema:数据库 schema 的名称catalog:数据库 catalog 的名称

default-cascade: 默认的级联关系, 默认为 nonedefault-access: Hibernate 用来访问属性的策略

● default-lazy:指定了未明确注明 lazy 属性的 Java 属性和集合类,Hibernate 会采用什么样的加载 风格,默认为 true

• auto-import: 指定我们是否可以在查询语句中使用非全限定类名,默认为 true,如果项目中有两个同名的持久化类,最好在这两个类的对应映射文件中国配置为 false

class 属性

name: 实体类名table: 数据表名

schema:数据库 schema 的名称,会覆盖 hibernate-mapping 的 schema
catalog:数据库 catalog 的名称,会覆盖 hibernate-mapping 的 catalog

● proxy: 指定一个接口, 在延迟加载时作为代理使用

dynamic-update: 动态更新dynamic-insert: 动态添加

```
package com.southwind.test;
import com.southwind.entity.Account;
import com.southwind.entity.People;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class Test8 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        People people = new People();
```

```
people.setName("张三");

session.save(people);

session.close();
}
```

```
Hibernate:
   insert
   into
      people
      (name, money)
   values
      (?, ?)
```

```
<class name="com.southwind.entity.People" table="people" dynamic-
insert="true">
```

```
Hibernate:
insert
into
people
(name)
values
(?)
```

```
package com.southwind.test;

import com.southwind.entity.Account;
import com.southwind.entity.People;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;

public class Test8 {
```

```
public static void main(String[] args) {
    //创建 Configuration
    Configuration configuretion = new
Configuration().configure("hibernate.xml");
    //获取 SessionFactory
    SessionFactory sessionFactory = configuration.buildSessionFactory();
    //获取 Session
    Session session = sessionFactory.openSession();

People people = session.get(People.class,6);
    people.setMoney(2000.0);

    session.update(people);
    session.beginTransaction().commit();
    session.close();
}
```

```
Hibernate:
    update
    people
    set
    name=?,
    money=?
    where
    id=?
```

```
<class name="com.southwind.entity.People" table="people" dynamic-insert="true"
dynamic-update="true">
```

```
Hibernate:
    update
    people
    set
        money=?
    where
    id=?
```

● where: 查询时给 SQL 添加 where 条件

```
package com.southwind.test;
import com.southwind.entity.Account;
import com.southwind.entity.People;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.query.Query;
import java.util.List;
public class Test8 {
   public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        String hql = "from People";
        Query query = session.createQuery(hql);
        List<People> list = query.list();
        for (People people:list) {
            System.out.println(people);
        }
        session.beginTransaction().commit();
        session.close();
    }
}
```

```
Hibernate:
select
people0_.id as id1_3_,
people0_.name as name2_3_,
people0_.money as money3_3_
from
people people0_
People(id=6, name=张三, money=2000.0)
People(id=7, name=张三, money=2000.0)
```

```
<class name="com.southwind.entity.People" table="people" dynamic-insert="true"
dynamic-update="true" where="id = 6">
```

```
Hibernate:
select
people0_.id as id1_3_,
people0_.name as name2_3_,
people0_.money as money3_3_
from
people people0_
where
(
people0_.id = 6
)
People(id=6, name=张三, money=2000.0)
```

id 属性

name: 实体类属性名type: 实体类属性数据类型

此处可以设置两种类型的数据: Java 数据类型或者 Hibernate 映射类型。

实体类的属性数据类型必须与数据表对应的字段数据类型一致:

int 对应 int, String 对应 varchar

如何进行映射?

Java 数据类型映射到 Hibernate 映射类型,再由 Hibernate 映射类型映射到 SQL 数据类型

Java --- > Hibernate --- > SQL

• column:数据表的主键字段名

• generator: 主键生成策略

1、hilo 算法

2、increment: Hibernate 自增

3、identity:数据库自增

4、native:本地策略,根据底层数据库自动选择主键的生成策略

5、uuid.hex 算法

6、select 算法

property 属性

name: 实体类的属性名column: 数据表字段名

• type:数据类型

update:该字段是否可以修改,默认为 trueinsert:该字段是否可以添加,默认为 true

● lazy: 延迟加载策略

实体关系映射文件属性

1、inverse

Customer 和 Orders 是一对多关系,一个 Customer 对应多个 Orders,实体类中用一个 set 集合来表示对应的 Orders。

```
package com.southwind.entity;
import lombok.Data;
import lombok. Getter;
import lombok.Setter;
import java.util.Set;
@Getter
@Setter
public class Customer {
    private Integer id;
    private String name;
    private Set<Orders> orders;
    @Override
    public String toString() {
        return "Customer{" +
                "id=" + id +
                ", name='" + name + '\'' +
                '}';
```

Customer.hbm.xml 中使用 set 标签来配置映射关系。

```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD
3.0//EN"
        "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
    <class name="com.southwind.entity.Customer" table="customer">
        <id name="id" type="java.lang.Integer">
            <column name="id"></column>
            <generator class="identity"></generator>
        </id>
        cproperty name="name" type="java.lang.String">
            <column name="name"></column>
        </property>
        <set name="orders" table="orders" lazy="extra">
            <key column="cid"></key>
            <one-to-many class="com.southwind.entity.Orders"></one-to-many>
        </set>
    </class>
</hibernate-mapping>
```

```
package com.southwind.entity;

import lombok.Data;
import lombok.Getter;
import lombok.Setter;

@Getter
@Setter
public class Orders {
    private Integer id;
    private String name;
    private Customer customer;

@Override
public String toString() {
    return "Orders{" +
        "id=" + id +
        ", name='" + name + '\'' +
```

```
'}';
}
```

```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD
3.0//EN"
        "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
    <class name="com.southwind.entity.Orders" table="orders">
        <id name="id" type="java.lang.Integer">
            <column name="id"></column>
            <generator class="identity"></generator>
        </id>
        cproperty name="name" type="java.lang.String">
            <column name="name"></column>
        <many-to-one name="customer" class="com.southwind.entity.Customer"</pre>
column="cid" lazy="proxy"></many-to-one>
    </class>
</hibernate-mapping>
```

```
package com.southwind.test;
import com.southwind.entity.Customer;
import com.southwind.entity.Orders;
import com.southwind.entity.People;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.query.Query;
import java.util.List;
public class Test9 {
   public static void main(String[] args) {
       //创建 Configuration
       Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
       SessionFactory = configuration.buildSessionFactory();
        //获取 Session
```

```
Session session = sessionFactory.openSession();

Customer customer = new Customer();
customer.setName("张三");

Orders orders1 = new Orders();
orders1.setName("订单1");
orders1.setCustomer(customer);

Orders orders2 = new Orders();
orders2.setName("订单2");
orders2.setCustomer(customer);

session.save(customer);
session.save(orders1);
session.save(orders2);

session.beginTransaction().commit();

session.close();
}
```

```
Hibernate:
    insert
    into
        customer
        (name)
    values
        (?)
Hibernate:
    insert
    into
        orders
        (name, cid)
    values
        (?, ?)
```

```
Hibernate:
insert
into
orders
(name, cid)
values
(?, ?)
```

```
package com.southwind.test;
import com.southwind.entity.Customer;
import com.southwind.entity.Orders;
import com.southwind.entity.People;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import org.hibernate.query.Query;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
public class Test9 {
    public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Customer customer = new Customer();
        customer.setName("张三");
        Orders orders1 = new Orders();
        orders1.setName("订单1");
        orders1.setCustomer(customer);
        Orders orders2 = new Orders();
        orders2.setName("订单2");
```

```
orders2.setCustomer(customer);

Set<Orders> orders = new HashSet<>();
orders.add(orders1);
orders.add(orders2);
customer.setOrders(orders);

session.save(customer);
session.save(orders1);
session.save(orders2);

session.beginTransaction().commit();
session.close();
}
```

```
Hibernate:
   insert
   into
        customer
        (name)
   values
        (?)
Hibernate:
   insert
   into
        orders
        (name, cid)
   values
        (?, ?)
```

```
Hibernate:
    insert
    into
         orders
         (name, cid)
    values
         (?, ?)
Hibernate:
    update
         orders
    set
         cid=?
    where
         id=?
```

```
Hibernate:
    update
    orders
    set
    cid=?
    where
    id=?
```

因为 Customer 和 Orders 都在维护一对多关系,所以会重复设置主外键约束关系。

如何避免这种情况?

- 1、在 Java 代码中去掉一方维护关系代码。
- 2、通过配置来解决。

inverse 属性是用来设置是否将维护权交给对方,默认是 false,不交出维护权,双方都在维护,将它设置为 true,表示 Customer 放弃维护。

cascade: 用来设置级联操作

```
package com.southwind.test;
import com.southwind.entity.Customer;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;
public class Test10 {
    public static void main(String[] args) {
        //创建 Configuration
       Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Customer customer = session.get(Customer.class, 18);
        Iterator<Orders> iterator = customer.getOrders().iterator();
        while(iterator.hasNext()){
            session.delete(iterator.next());
        session.delete(customer);
```

```
session.beginTransaction().commit();

session.close();
}
```

实体关系映射文件中设置 cascade 值完成级联删除。

```
package com.southwind.test;
import com.southwind.entity.Customer;
import com.southwind.entity.Orders;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;
public class Test10 {
   public static void main(String[] args) {
        //创建 Configuration
        Configuration configuration = new
Configuration().configure("hibernate.xml");
        //获取 SessionFactory
        SessionFactory sessionFactory = configuration.buildSessionFactory();
        //获取 Session
        Session session = sessionFactory.openSession();
        Customer customer = session.get(Customer.class,19);
        session.delete(customer);
        session.beginTransaction().commit();
        session.close();
   }
}
```