```
Book.java
package bookmap;
import javax.persistence.DiscriminatorColumn;
import javax.persistence.DiscriminatorType;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.ld;
import javax.persistence.Inheritance;
import javax.persistence.InheritanceType;
/*@Entity
@Inheritance(strategy=InheritanceType.JOINED)
@DiscriminatorColumn(name = "BOOK_DETAILS", discriminatorType = DiscriminatorType.STRING)
@DiscriminatorValue("book")*/
public class Book {
//@Id
//@GeneratedValue
       private intid;
       private String name;
       private String author;
       private double price;
       private intisbnNo;
       public Book() {
               // TODO Auto-generated constructor stub
       }
       public Book(String name, String author, double price, intisbnNo){
               super();
               this.name = name;
               this.author = author;
               this.price = price;
               this.isbnNo=isbnNo;
       }
       publicint getId() {
               returnid;
       }
```

```
public void setId(int id) {
       this.id = id;
}
publicStringgetName(){
       return name;
}
public void setName(String name) {
       this.name = name;
}
publicStringgetAuthor(){
       return author;
}
public void setAuthor(String author) {
       this.author = author;
}
public double getPrice() {
       return price;
}
public void setPrice(double price){
       this.price = price;
}
publicint getIsbnNo() {
       return isbnNo;
}
public void setIsbnNo(int isbnNo){
       this.isbnNo=isbnNo;
}
```

}

```
E-Book.java
package bookmap;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
//@Entity
//@DiscriminatorValue("ebook")
public class EBook extends Book {
       public EBook() {
               super();
               // TODO Auto-generated constructor stub
       }
       private String downloadUrl;
        private double sizeInMB;
        publicStringgetDownloadUrl() {
               return downloadUrl;
       }
       public void setDownloadUrl(String downloadUrl){
               this.downloadUrl = downloadUrl;
       }
        public double getSizeInMB() {
               return sizeInMB;
       }
       public void setSizeInMB(double sizeInMB) {
               this.sizeInMB = sizeInMB;
       }
       public EBook(String name, String author, double price, intisbnNo, String downloadUrl, double
sizeInMB) {
               super(name, author, price, isbnNo);
               this.downloadUrl = downloadUrl;
               this.sizeInMB = sizeInMB;
       }
}
```

```
Paperbook.java
package bookmap;
import javax.persistence.DiscriminatorValue;
import javax.persistence.Entity;
//@Entity
//@DiscriminatorValue("pbook")
public class PaperBook extends Book {
        private double shippingWeight;
        private intinStock;
        public PaperBook (String name, String author, double price, intisbnNo, double shippingWeight,
intinStock) {
               super(name, author, price, isbnNo);
               this.shippingWeight = shippingWeight;
               this.inStock = inStock;
        }
        public double getShippingWeight() {
               return shipping Weight;
        }
        public void setShippingWeight(double shippingWeight) {
               this.shippingWeight = shippingWeight;
        }
        public int getInStock() {
               return in Stock;
        }
        public void setInStock(int inStock) {
               this.inStock = inStock;
        }
        public PaperBook(){
               super();
               // TODO Auto-generated constructor stub
        }
}
```

```
Bookmain.java
package org.isbn.bk;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import org.grocery.stock.ltem;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
import bookmap.Book;
import bookmap.EBook;
import bookmap.PaperBook;
public class BookMain {
       public static void main(String[] args) throws IOException {
               SessionFactory sf = new Configuration().configure().buildSessionFactory();
               Session session = sf.openSession();
               BufferedReader bf = new BufferedReader(new InputStreamReader(System.in));
               // session.beginTransaction();
               while (true) {
                       System.out.println("Enteryour choice:");
                       int ch = Integer.valueOf(bf.readLine());
                       switch (ch) {
                       case 1:
                               session.beginTransaction();
                               System.out.print("enter Book Name:");
                               String name = bf.readLine();
                               System.out.print("enter Author Name:");
                               String author = bf.readLine();
                               System.out.print("enter Price:");
                               double price = Double.valueOf(bf.readLine());
```

```
System.out.print("enter isbn no:");
                               int isbnNo = Integer.valueOf(bf.readLine());
                               Book book = new Book(name, author, price, isbnNo);
                               book.setName(name);
                               book.setAuthor(author);
                               book.setPrice(price);
                               book.setIsbnNo(isbnNo);
                               System.out.println("Enter the details of e-book:");
                               System.out.println("enter the url:");
                               String url = bf.readLine();
                               System.out.println("Enter the size in MB");
                               double mb = Double.valueOf(bf.readLine());
                               EBook eb = new EBook(name, author, price, isbnNo, url, mb);
                               eb.setDownloadUrl(url);
                               eb.setSizeInMB(mb);
                               System.out.println("Enter the details of paper-book:");
                               System.out.println("Enter the shipping weight:");
                               double weight = Double.valueOf(bf.readLine());
                               System.out.println("Enter the instock:");
                               int inStock = Integer.valueOf(bf.readLine());
                               PaperBook pb = new PaperBook(name, author, price, isbnNo, weight,
inStock);
                               pb.setShippingWeight(weight);
                               pb.setInStock(inStock);
                               session.save(book);
                               session.save(eb);
                               session.save(pb);
                               // session.getTransaction().commit();
                               break;
                       case 2:
                               session.beginTransaction();
                               System.out.println("Enter a valid id to update:");
                               int vid = Integer.valueOf(bf.readLine());
                               Book book1 = new Book();
                               book1.setIsbnNo(14526);
```

```
* EBook eb1 = new EBook(); eb1.setSizeInMB(50);
        */
       session.update(book1);
       // session.update(eb1);
       // session.getTransaction().commit();
       break;
case 3:
       session.beginTransaction();
       System.out.println("Enter a valid id to delete:");
       int did = Integer.valueOf(bf.readLine());
       Book b = new Book();
       b.setId(did);
       session.delete(b);
       // session.getTransaction().commit();
       break;
case 4:
       session.beginTransaction();
       System.out.println("Enter a valid id to search");
       int id = Integer.valueOf(bf.readLine());
       Book bk = session.get(Book.class, id);
       System.out.println("Book Name="+bk.getName());
       System.out.println("Author Name="+bk.getAuthor());
       System.out.println("Price="+bk.getPrice());
       System.out.println("Isbn No=" + bk.getIsbnNo());
       // session.getTransaction().commit();
       break;
case 5:
       System.out.println("Exit");
       System.exit(0);
       break;
default:
       System.exit(0);
       break;
}
session.getTransaction().commit();
sf.close();
```

```
session.close();
             }
      }
}
Book.hbm.xml
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE hibernate-mapping PUBLIC</pre>
 "-//Hibernate/Hibernate Mapping DTD//EN"
 "http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<hibernate-mapping>
   <class name="bookmap.Book" table="BOOK DETAILS" discriminator-value="BOOK">
      <id name="id" type="int" column="BOOK_ID">
         <generator class="native"/>
      </id>
      <discriminator column="DISCRIMINATOR" type="string"/>
      cproperty name="name" column="BOOK_NAME" type="string"/>
      cproperty name="author" column="AUTHOR_NAME" type="string"/>
      cproperty name="price" column="PRICE" type="double"/>
      cproperty name="isbnNo" column="ISBN_NO" type="int"/>
     <subclass name="bookmap.EBook" extends="Book" discriminator-value="EB">
                           cproperty name="downloadUrl" column="download_URL"
type="string" />
                           cproperty name="sizeInMB" type="double"
column="size in MB" />
             </subclass>
              <subclass name="bookmap.PaperBook" extends="Book" discriminator-</pre>
value="PB">
                           cproperty name="shippingWeight" column="shipping_weight"
type="double" />
                           cproperty name="inStock" type="int" column="in_stock" />
             </subclass>
   </class>
</hibernate-mapping>
```