

Initial content of database tables after initialization:

```
mysql> select * from category;
+-----+
| ID | NAME |
+-----+
| 1 | Java |
| 2 | Design Patterns |
| 3 | C/C++ |
| 4 | Python |
| 5 | Scala |
| 6 | JavaScript |
+-----+
6 rows in set (0.00 sec)

mysql> select * from book;
+-----+-----+-----+-----+-----+
| ID | CATEGORY_ID | ISBN | TITLE | PRICE |
+-----+-----+-----+-----+-----+
| 1 | 1 | 0764543857 | Expert one-on-one J2EE Design and Development | 59.99 |
| 2 | 1 | 0321349807 | The Java Programming Language | 31.75 |
| 3 | 1 | 0321349808 | Head First Java | 18.3 |
| 4 | 1 | 0321349809 | Murach Java Programming (5th Edition) | 50.14 |
| 5 | 2 | 0321127420 | Patterns of Enterprise Application Architecture | 52.49 |
| 6 | 3 | 0321349524 | The C Programming Language(2nd Edition) | 31.83 |
| 7 | 3 | 0321349529 | C++ Primer(5th Edition) | 55.56 |
| 8 | 3 | 0321349528 | Murach C++ Programming | 59.5 |
| 9 | 4 | 0321349810 | Python Crash Course | 21.24 |
| 10 | 5 | 1935182706 | Scala in Depth | 32.48 |
| 11 | 6 | 0321349819 | Eloquent JavaScript | 25 |
+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select * from author;
+-----+-----+-----+-----+
| ID | FIRST_NAME | LAST_NAME | DESCRIPTION |
+-----+-----+-----+-----+
| 1 | Rod | Johnson | an Australian computer specialist who created the Spring Framework and co-founded SpringSource |
| 2 | Ken | Arnold | an American computer programmer well known as one of the developers of the 1980s |
| 3 | Kathy | Sierra | She created the award-winning Head First programming book series that has sold over 1 million copies. |
| 4 | Joel | Murach | He has written extensively on a wide range of Java, .NET, web, and database technologies. |
| 5 | Martin | Fowler | a British software developer, author and international public speaker on software development |
| 6 | Brian | Kernighan | a computer scientist who worked at Bell Labs alongside Unix creators |
| 7 | Stanley | Lippman | He has worked with Bjarne Stroustrup in Bell Laboratories during early stages of C++ |
| 8 | Eric | Matthes | He teaches high school math and science at a small school in southeast Alaska. |
| 9 | Josh | Suereth | a Staff Software Engineer at Google LLC |
| 10 | Marijn | Haverbeke | a programmer and tech writer in Berlin |
| 11 | Martin | Odersky | a German computer scientist and professor of programming methods |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select * from author_book;
+-----+-----+
| AUTHOR_ID | BOOK_ID |
+-----+-----+
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
+-----+-----+
12 rows in set (0.00 sec)
```

1. Find a book with author(s) and category by the book Id  
java -jar .\target\find-book-author-category-by-bookid-demo.jar  
edu.lix8.spring.jpa2.app.FindBookAuthorsCategoryByBookIdDemo

```
12:01:47,323 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 18 - ===== Listing book 10 with details: =====
12:01:47,386 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 24 - Book{id=10, isbn='1935182706', title='Scala in Depth', price=32.48}

12:01:47,392 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 26 - Category(name='Scala', id=5)
12:01:47,393 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 28 - Author{id=9, first_name='Josh', last_name='Suereth', description='a Staff Software Engineer at Google LLC'}
12:01:47,394 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 28 - Author{id=11, first_name='Martin', last_name='Odersky', description='a German computer scientist and professor of programming methods'}
12:01:47,394 INFO .app.FindBookAuthorsCategoryByBookIdDemo: 29 - =====
```

## 2. Find all books without details

```
java -jar .\target\find-all-books-demo.jar edu.lix8.spring.jpa2.app.FindAllBooksDemo
```

```
12:03:25,449 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 20 - ===== Listing books without authors and categories =====
12:03:25,485 INFO internal.QueryTranslatorFactoryInitiator: 47 - HHH000397: Using ASTQueryTranslatorFactory
12:03:25,619 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=1, isbn='0764543857', title='Expert one-on-one J2EE Design and Development', price=59.99}
12:03:25,619 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,621 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=2, isbn='0321349807', title='The Java Programming Language', price=31.75}
12:03:25,621 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,621 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=3, isbn='0321349808', title='Head First Java', price=18.3}
12:03:25,621 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=4, isbn='0321349809', title='Murach Java Programming (5th Edition)', price=50.14}
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=5, isbn='0321127420', title='Patterns of Enterprise Application Architecture', price=52.49}
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=6, isbn='0321349524', title='The C Programming Language(2nd Edition)', price=31.83}
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=7, isbn='0321349529', title='C++ Primer(5th Edition)', price=55.56}
12:03:25,623 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=8, isbn='0321349528', title='Murach C++ Programming', price=59.5}
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=9, isbn='0321349810', title='Python Crash Course', price=21.24}
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=10, isbn='1935182706', title='Scala in Depth', price=32.48}
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 27 - Book{id=11, isbn='0321349819', title='Eloquent JavaScript', price=25.0}
12:03:25,624 INFO du.lix8.spring.jpa2.app.FindAllBooksDemo: 28 - -----
```

## 3. Create a new book with a new author(s) not yet persisted in your database. The book should belong to one of the category already persisted in your database. Save the book and the author(s) in the database.

```
java -jar .\target\insert-book-with-author-demo.jar
edu.lix8.spring.jpa2.app.InsertBookWithAuthorDemo
```

```

12:04:42,291 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 23 - ----- Create a new book with new authors not yet persisted -----
12:04:42,328 INFO Internal.QueryTranslatorFactoryInitiator: 47 - HH0000397: Using ASTQueryTranslatorFactory
12:04:42,522 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=1, isbn='0764543857', title='Expert one-on-one J2EE Design and Development', price=59.99)
12:04:42,528 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Java', id=1)
12:04:42,529 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=1, first_name='Rod', last_name='Johnson', description='an Australian computer specialist who created the Spring Framework and co-founded SpringSource')
12:04:42,529 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,529 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=2, isbn='0321349807', title='The Java Programming Language', price=31.75)
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Java', id=1)
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=2, first_name='Ken', last_name='Arnold', description='an American computer programmer well known as one of the developers of the 1980s')
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=3, isbn='0321349808', title='Head First Java', price=18.3)
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Java', id=1)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=3, first_name='Kathy', last_name='Sierra', description='She created the award-winning Head First programming book series that has sold over 1 million copies.')
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=4, isbn='0321349809', title='Murach Java Programming (5th Edition)', price=50.14)
12:04:42,530 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Java', id=1)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=4, first_name='Martin', last_name='Fowler', description='He has written extensively on a wide range of Java, .NET, web, and database technologies.')
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=5, isbn='0321127420', title='Patterns of Enterprise Application Architecture', price=52.49)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Design Patterns', id=2)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=5, first_name='Martin', last_name='Fowler', description='a British software developer, author and international public speaker on software development')
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=6, isbn='0321349524', title='The C Programming Language(2nd Edition)', price=31.83)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='C/C++', id=3)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=6, first_name='Brian', last_name='Kernighan', description='a computer scientist who worked at Bell Labs alongside Unix creators')
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=7, isbn='0321349529', title='C++ Primer(5th Edition)', price=55.56)
12:04:42,531 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='C/C++', id=3)
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=4, first_name='Joel', last_name='Murach', description='He has written extensively on a wide range of Java, .NET, web, and database technologies.')
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=8, isbn='0321349528', title='Murach C++ Programming', price=59.5)
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='C/C++', id=3)
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=7, first_name='Stanley', last_name='Lippman', description='He has worked with Bjarne Stroustrup in Bell Laboratories during early stages of C++')
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=9, isbn='0321349810', title='Python Crash Course', price=21.24)
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Python', id=4)
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=8, first_name='Eric', last_name='Matthes', description='He teaches high school math and science at a small school in southeast Alaska.')
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,532 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=10, isbn='1935182706', title='Scala in Depth', price=32.48)
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Scala', id=5)
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=9, first_name='Josh', last_name='Suereth', description='a Staff Software Engineer at Google LLC')
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=11, isbn='0321349819', title='Eloquent JavaScript', price=25.0)
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='JavaScript', id=6)
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=10, first_name='Marijn', last_name='Haverbeke', description='a programmer and tech writer in Berlin')
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 45 - Book(id=12, isbn='0321349812', title='Modern Java in Action', price=48.18)
12:04:42,533 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 47 - Category(name='Java', id=1)
12:04:42,534 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=13, first_name='Raoul-Gabriel', last_name='Urma', description='a PhD candidate in Computer Science at the University of Cambridge')
12:04:42,534 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 49 - Author(id=12, first_name='Mario', last_name='Fusco', description='a senior software engineer at Red Hat')
12:04:42,534 INFO spring.jpa2.app.InsertBookWithAuthorDemo: 50 - -----

```

## The book and authors are added to the database

```

mysql> select * from book;
+----+-----+-----+-----+
| ID | CATEGORY_ID | ISBN | TITLE | PRICE |
+----+-----+-----+-----+
| 1 | 1 | 0764543857 | Expert one-on-one J2EE Design and Development | 59.99 |
| 2 | 1 | 0321349807 | The Java Programming Language | 31.75 |
| 3 | 1 | 0321349808 | Head First Java | 18.3 |
| 4 | 1 | 0321349809 | Murach Java Programming (5th Edition) | 50.14 |
| 5 | 2 | 0321127420 | Patterns of Enterprise Application Architecture | 52.49 |
| 6 | 3 | 0321349524 | The C Programming Language(2nd Edition) | 31.83 |
| 7 | 3 | 0321349529 | C++ Primer(5th Edition) | 55.56 |
| 8 | 3 | 0321349528 | Murach C++ Programming | 59.5 |
| 9 | 4 | 0321349810 | Python Crash Course | 21.24 |
| 10 | 5 | 1935182706 | Scala in Depth | 32.48 |
| 11 | 6 | 0321349819 | Eloquent JavaScript | 25 |
| 12 | 1 | 0321349812 | Modern Java in Action | 48.18 |
+----+-----+-----+-----+
12 rows in set (0.00 sec)

mysql> select * from author;
+----+-----+-----+-----+
| ID | FIRST_NAME | LAST_NAME | DESCRIPTION |
+----+-----+-----+-----+
| 1 | Rod | Johnson | an Australian computer specialist who created the Spring Framework and co-founded SpringSource |
| 2 | Ken | Arnold | an American computer programmer well known as one of the developers of the 1980s |
| 3 | Kathy | Sierra | She created the award-winning Head First programming book series that has sold over 1 million copies. |
| 4 | Joel | Murach | He has written extensively on a wide range of Java, .NET, web, and database technologies. |
| 5 | Martin | Fowler | a British software developer, author and international public speaker on software development |
| 6 | Brian | Kernighan | a computer scientist who worked at Bell Labs alongside Unix creators |
| 7 | Stanley | Lippman | He has worked with Bjarne Stroustrup in Bell Laboratories during early stages of C++ |
| 8 | Eric | Matthes | He teaches high school math and science at a small school in southeast Alaska. |
| 9 | Josh | Suereth | a Staff Software Engineer at Google LLC |
| 10 | Marijn | Haverbeke | a programmer and tech writer in Berlin |
| 11 | Martin | Odersky | a German computer scientist and professor of programming methods |
| 12 | Mario | Fusco | a senior software engineer at Red Hat |
| 13 | Raoul-Gabriel | Urma | a PhD candidate in Computer Science at the University of Cambridge |
+----+-----+-----+-----+
13 rows in set (0.00 sec)

mysql> select * from author_book;
+-----+-----+
| AUTHOR_ID | BOOK_ID |
+-----+-----+
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 12 |
+-----+-----+
14 rows in set (0.00 sec)

```



#### 4. Delete the added book and the author(s) from the database.

java -jar .\target\delete-inserted-book-demo.jar edu.lit8.spring.jpa2.app.DeleteInsertedBookAndAuthorDemo

```

12:07:04,643 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 20 - ===== Delete the saved book and authors from database =====
12:07:04,799 INFO internal.QueryTranslatorFactoryInitiator: 47 - HH0000397: Using ASTQueryTranslatorFactory
12:07:04,903 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=1, isbn='0764543857', title='Expert one-on-one J2EE Design and Development', price=59.99}
12:07:04,907 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Java', id=1}
12:07:04,908 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=1, first_name='Rod', last_name='Johnson', description='an Australian computer specialist who created the Spring Framework and co-founded SpringSource'}
12:07:04,908 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,908 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=2, isbn='0321349807', title='The Java Programming Language', price=31.75}
12:07:04,908 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Java', id=1}
12:07:04,909 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=2, first_name='Ken', last_name='Arnold', description='an American computer programmer well known as one of the developers of the 1980s'}
12:07:04,909 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,909 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=3, isbn='0321349808', title='Head First Java', price=18.3}
12:07:04,909 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Java', id=1}
12:07:04,909 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=3, first_name='Kathy', last_name='Sierra', description='She created the award-winning Head First programming book series that has sold over 1 million copies.'}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=4, isbn='0321349809', title='Murach Java Programming (5th Edition)', price=50.14}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Java', id=1}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=4, first_name='Joel', last_name='Murach', description='He has written extensively on a wide range of Java, .NET, web, and database technologies.'}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=5, isbn='0321127420', title='Patterns of Enterprise Application Architecture', price=52.49}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Design Patterns', id=2}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=5, first_name='Martin', last_name='Fowler', description='a British software developer, author and international public speaker on software development'}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=6, isbn='0321349524', title='The C Programming Language(2nd Edition)', price=31.83}
12:07:04,910 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='C/C++', id=3}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=6, first_name='Brian', last_name='Kernighan', description='a computer scientist who worked at Bell Labs alongside Unix creators'}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=7, isbn='0321349529', title='C++ Primer(5th Edition)', price=55.56}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='C/C++', id=3}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=4, first_name='Joel', last_name='Murach', description='He has written extensively on a wide range of Java, .NET, web, and database technologies.'}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=8, isbn='0321349528', title='Murach C++ Programming', price=59.5}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='C/C++', id=3}
12:07:04,911 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=7, first_name='Stanley', last_name='Lippman', description='He has worked with Bjarne Stroustrup in Bell Laboratories during early stages of C++'}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=9, isbn='0321349810', title='Python Crash Course', price=21.24}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Python', id=4}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=8, first_name='Eric', last_name='Matthes', description='He teaches high school math and science at a small school in southeast Alaska.'}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=10, isbn='1935182706', title='Scala in Depth', price=32.48}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='Scala', id=5}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=11, first_name='Martin', last_name='Odersky', description='a German computer scientist and professor of programming methods'}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=9, first_name='Josh', last_name='Suereth', description='a Staff Software Engineer at Google LLC'}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 29 - Book{id=11, isbn='0321349819', title='Eloquent JavaScript', price=25.0}
12:07:04,912 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 31 - Category{name='JavaScript', id=6}
12:07:04,913 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 33 - Author{id=10, first_name='Marijn', last_name='Haverbeke', description='a programmer and tech writer in Berlin'}
12:07:04,913 INFO jpa2.app.DeleteInsertedBookAndAuthorDemo: 34 - -----

```

The book with ID = 12 and authors with ID =12 and ID=13 are also deleted from the database

```

mysql> select * from book;
+----+-----+-----+-----+
| ID | CATEGORY_ID | ISBN | TITLE | PRICE |
+----+-----+-----+-----+
| 1 | 1 | 0764543857 | Expert one-on-one J2EE Design and Development | 59.99 |
| 2 | 1 | 0321349807 | The Java Programming Language | 31.75 |
| 3 | 1 | 0321349808 | Head First Java | 18.3 |
| 4 | 1 | 0321349809 | Murach Java Programming (5th Edition) | 50.14 |
| 5 | 2 | 0321127420 | Patterns of Enterprise Application Architecture | 52.49 |
| 6 | 3 | 0321349524 | The C Programming Language(2nd Edition) | 31.83 |
| 7 | 3 | 0321349529 | C++ Primer(5th Edition) | 55.56 |
| 8 | 3 | 0321349528 | Murach C++ Programming | 59.5 |
| 9 | 4 | 0321349810 | Python Crash Course | 21.24 |
| 10 | 5 | 1935182706 | Scala in Depth | 32.48 |
| 11 | 6 | 0321349819 | Eloquent JavaScript | 25 |
+----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select * from author;
+----+-----+-----+-----+
| ID | FIRST_NAME | LAST_NAME | DESCRIPTION |
+----+-----+-----+-----+
| 1 | Rod | Johnson | an Australian computer specialist who created the Spring Framework and co-founded SpringSource |
| 2 | Ken | Arnold | an American computer programmer well known as one of the developers of the 1980s |
| 3 | Kathy | Sierra | She created the award-winning Head First programming book series that has sold over 1 million copies. |
| 4 | Joel | Murach | He has written extensively on a wide range of Java, .NET, web, and database technologies. |
| 5 | Martin | Fowler | a British software developer, author and international public speaker on software development |
| 6 | Brian | Kernighan | a computer scientist who worked at Bell Labs alongside Unix creators |
| 7 | Stanley | Lippman | He has worked with Bjarne Stroustrup in Bell Laboratories during early stages of C++ |
| 8 | Eric | Matthes | He teaches high school math and science at a small school in southeast Alaska. |
| 9 | Josh | Suereth | a Staff Software Engineer at Google LLC |
| 10 | Marijn | Haverbeke | a programmer and tech writer in Berlin |
| 11 | Martin | Odersky | a German computer scientist and professor of programming methods |
+----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select * from author_book;
+-----+-----+
| AUTHOR_ID | BOOK_ID |
+-----+-----+
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
+-----+-----+
12 rows in set (0.00 sec)

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