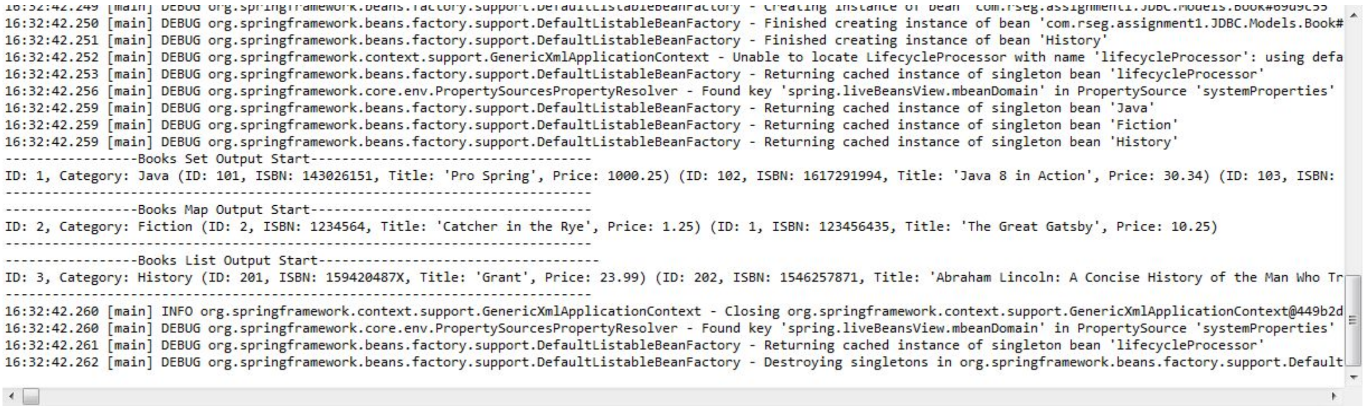
Part 1

Steps

1. I created class structures for both the book and the category
2. I created a bean file to create instances of category using book beans. Some books were created as books and passed as reference to the category bean, and others were created in-line.
3. I created three different instances to show off the three different structures: Map, List, and Set.

Tests

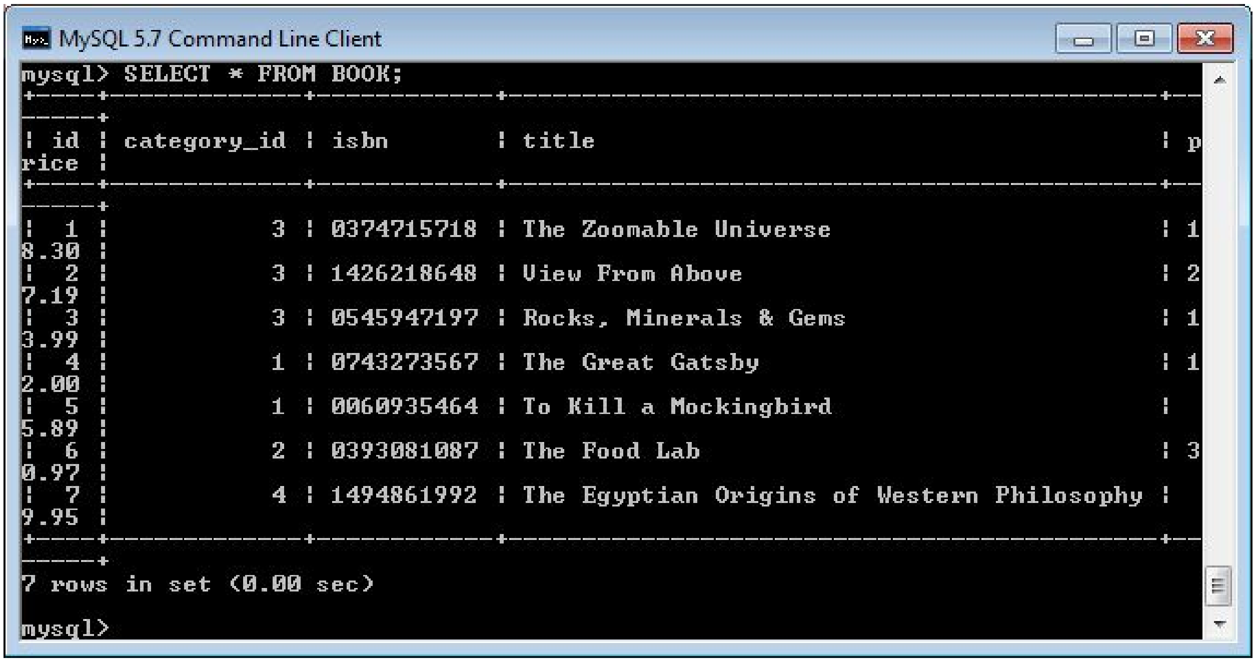


```
16:32:42.249 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Creating instance of bean 'com.rseg.assignment1.JDBC.Models.Book#69d9c55
16:32:42.250 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Finished creating instance of bean 'com.rseg.assignment1.JDBC.Models.Book#
16:32:42.251 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Finished creating instance of bean 'History'
16:32:42.252 [main] DEBUG org.springframework.context.support.GenericXmlApplicationContext - Unable to locate LifecycleProcessor with name 'lifecycleProcessor': using defa
16:32:42.253 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached instance of singleton bean 'lifecycleProcessor'
16:32:42.256 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.liveBeansView.mbeanDomain' in PropertySource 'systemProperties'
16:32:42.259 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached instance of singleton bean 'Java'
16:32:42.259 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached instance of singleton bean 'Fiction'
16:32:42.259 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached instance of singleton bean 'History'
-----------------Books Set Output Start------------------------------------
ID: 1, Category: Java (ID: 101, ISBN: 143026151, Title: 'Pro Spring', Price: 1000.25) (ID: 102, ISBN: 1617291994, Title: 'Java 8 in Action', Price: 30.34) (ID: 103, ISBN:
---------------------------------------------------------------------------
-----------------Books Map Output Start------------------------------------
ID: 2, Category: Fiction (ID: 2, ISBN: 1234564, Title: 'Catcher in the Rye', Price: 1.25) (ID: 1, ISBN: 123456435, Title: 'The Great Gatsby', Price: 10.25)
---------------------------------------------------------------------------
-----------------Books List Output Start------------------------------------
ID: 3, Category: History (ID: 201, ISBN: 159420487X, Title: 'Grant', Price: 23.99) (ID: 202, ISBN: 1546257871, Title: 'Abraham Lincoln: A Concise History of the Man Who Tr
---------------------------------------------------------------------------
16:32:42.260 [main] INFO org.springframework.context.support.GenericXmlApplicationContext - Closing org.springframework.context.support.GenericXmlApplicationContext@449b2d
16:32:42.260 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.liveBeansView.mbeanDomain' in PropertySource 'systemProperties'
16:32:42.261 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached instance of singleton bean 'lifecycleProcessor'
16:32:42.262 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Destroying singletons in org.springframework.beans.factory.support.Default
```

Part 2

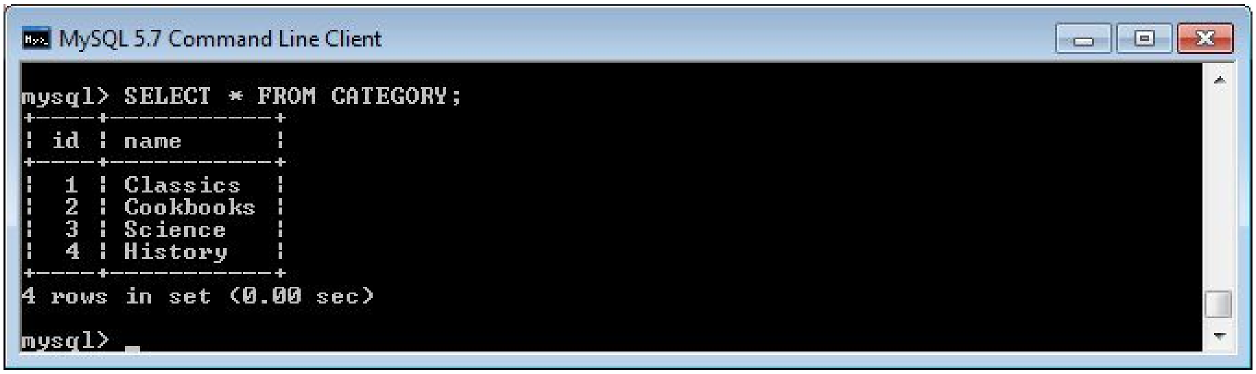
Steps

1. I built a database with category and book tables. They looks like this:
   Book:



```
mysql> SELECT * FROM BOOK;
+----+-------------+------------+--------------------------------------------+--
-----+
| id | category_id | isbn       | title                                      | p
rice |
+----+-------------+------------+--------------------------------------------+--
-----+
|  1 |           3 | 0374715718 | The Zoomable Universe                      | 1
8.30 |
|  2 |           3 | 1426218648 | View From Above                            | 2
7.19 |
|  3 |           3 | 0545947197 | Rocks, Minerals & Gems                     | 1
3.99 |
|  4 |           1 | 0743273567 | The Great Gatsby                           | 1
2.00 |
|  5 |           1 | 0060935464 | To Kill a Mockingbird                      |
5.89 |
|  6 |           2 | 0393081087 | The Food Lab                               | 3
0.97 |
|  7 |           4 | 1494861992 | The Egyptian Origins of Western Philosophy |
9.95 |
+----+-------------+------------+--------------------------------------------+--
-----+
7 rows in set (0.00 sec)

mysql>
```

Category:

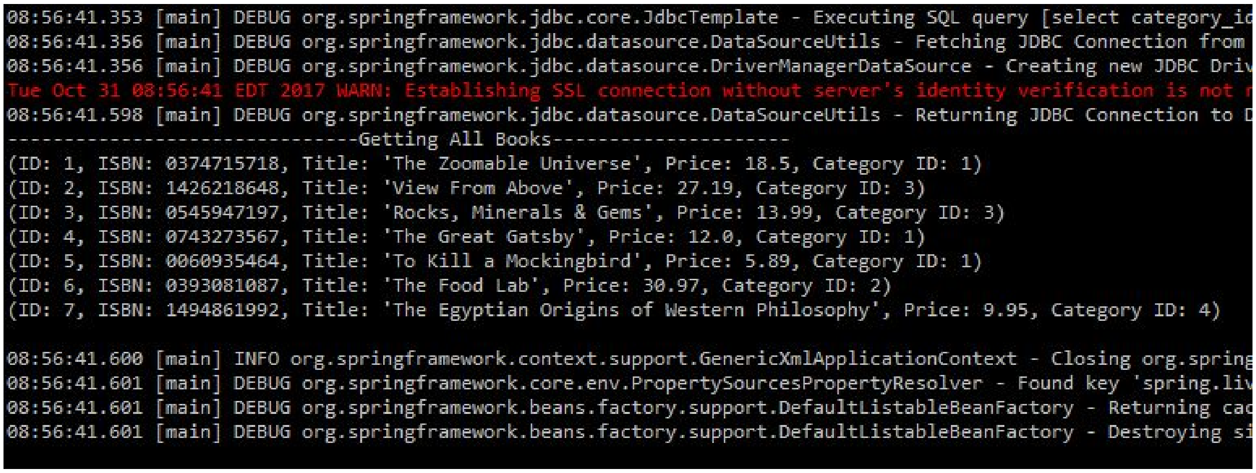


```
mysql> SELECT * FROM CATEGORY;
+----+-----------+
| id | name      |
+----+-----------+
|  1 | Classics  |
|  2 | Cookbooks |
|  3 | Science   |
|  4 | History   |
+----+-----------+
4 rows in set (0.00 sec)

mysql> _
```

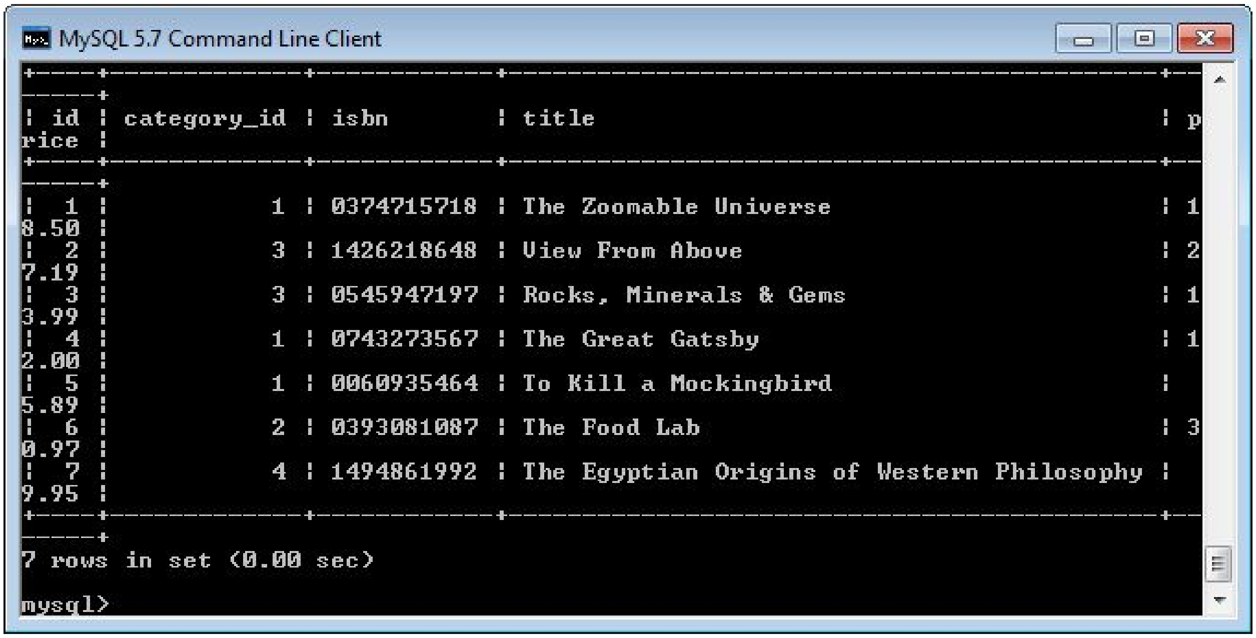
2. I then created a Model interface and two extensions pertaining to each table.
3. I created a DAO class and a bean to create the data source.
4. Using the beans, I injected the data source into the DAO and created a jdbcTemplate and a NamedParameterdjbcTemplate (for use with some queries later).
5. I then created CRUD classes to wrap around the DAO and access the database along with row mappers for both the Category and Book tables.
6. Packaging it all together, I created methods to Get All Books and Categories, Get Book by a Category name (I took “name” to imply the name of the category *not* the id), and Update, Insert and Delete a Book. With the exception of the “Get All” actions, I used the NamedParameterjdbcTemplate to access all data.
7. I then wrapped all of that to create my Main function which tests these drivers.

Tests

Get All Books

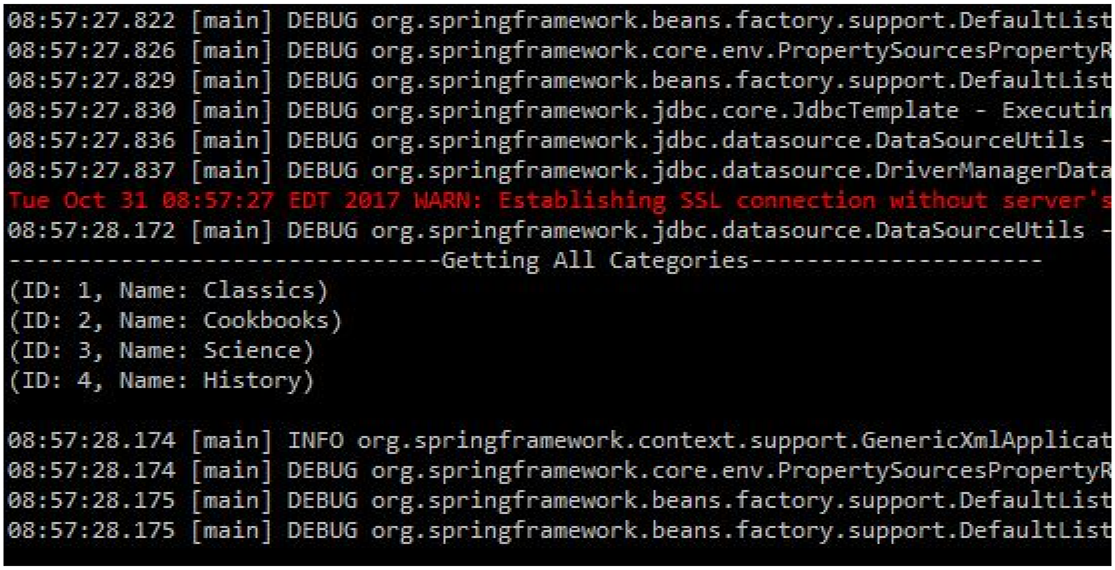


```
08:56:41.353 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_id
08:56:41.356 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:56:41.356 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Driv
Tue Oct 31 08:56:41 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not r
08:56:41.598 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to D
-------------------------------Getting All Books---------------------
(ID: 1, ISBN: 0374715718, Title: 'The Zoomable Universe', Price: 18.5, Category ID: 1)
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:56:41.600 [main] INFO org.springframework.context.support.GenericXmlApplicationContext - Closing org.spring
08:56:41.601 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.liv
08:56:41.601 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cac
08:56:41.601 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Destroying si
```

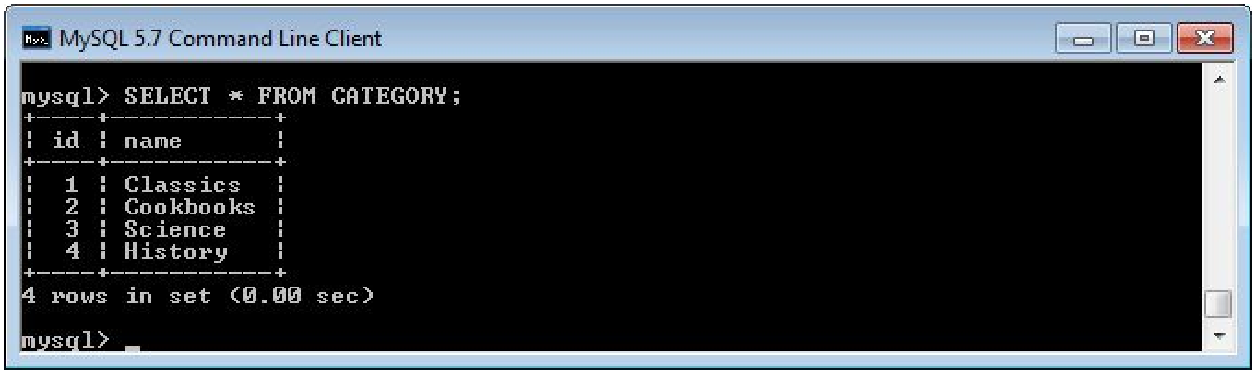


```
+----+-------------+------------+--------------------------------------------+--
-----+
| id | category_id | isbn       | title                                      | p
rice |
+----+-------------+------------+--------------------------------------------+--
-----+
|  1 |           1 | 0374715718 | The Zoomable Universe                      | 1
8.50 |
|  2 |           3 | 1426218648 | View From Above                            | 2
7.19 |
|  3 |           3 | 0545947197 | Rocks, Minerals & Gems                     | 1
3.99 |
|  4 |           1 | 0743273567 | The Great Gatsby                           | 1
2.00 |
|  5 |           1 | 0060935464 | To Kill a Mockingbird                      |
5.89 |
|  6 |           2 | 0393081087 | The Food Lab                               | 3
0.97 |
|  7 |           4 | 1494861992 | The Egyptian Origins of Western Philosophy |
9.95 |
+----+-------------+------------+--------------------------------------------+--
-----+
7 rows in set (0.00 sec)

mysql>
```

Get All Categories

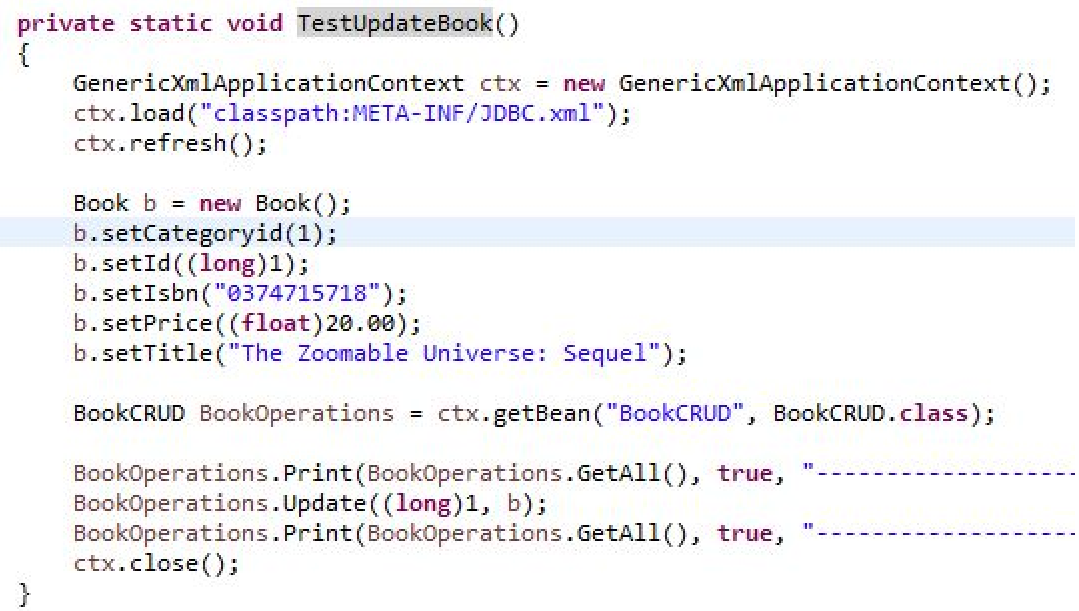


```
08:57:27.822 [main] DEBUG org.springframework.beans.factory.support.DefaultList
08:57:27.826 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyR
08:57:27.829 [main] DEBUG org.springframework.beans.factory.support.DefaultList
08:57:27.830 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executin
08:57:27.836 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils -
08:57:27.837 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerData
Tue Oct 31 08:57:27 EDT 2017 WARN: Establishing SSL connection without server's
08:57:28.172 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils -
-------------------------------Getting All Categories---------------------
(ID: 1, Name: Classics)
(ID: 2, Name: Cookbooks)
(ID: 3, Name: Science)
(ID: 4, Name: History)

08:57:28.174 [main] INFO org.springframework.context.support.GenericXmlApplicat
08:57:28.174 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyR
08:57:28.175 [main] DEBUG org.springframework.beans.factory.support.DefaultList
08:57:28.175 [main] DEBUG org.springframework.beans.factory.support.DefaultList
```

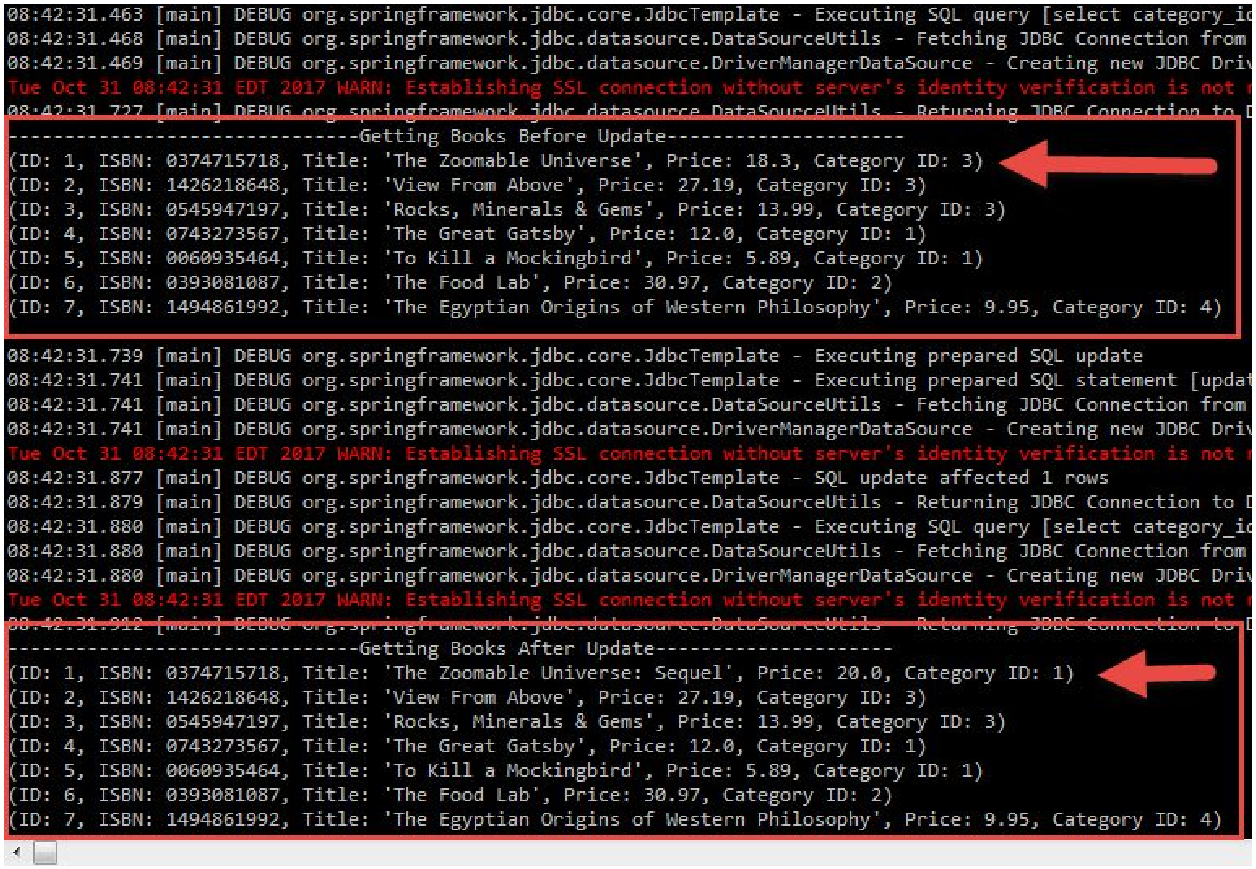


```
mysql> SELECT * FROM CATEGORY;
+----+-----------+
| id | name      |
+----+-----------+
|  1 | Classics  |
|  2 | Cookbooks |
|  3 | Science   |
|  4 | History   |
+----+-----------+
4 rows in set (0.00 sec)

mysql> _
```

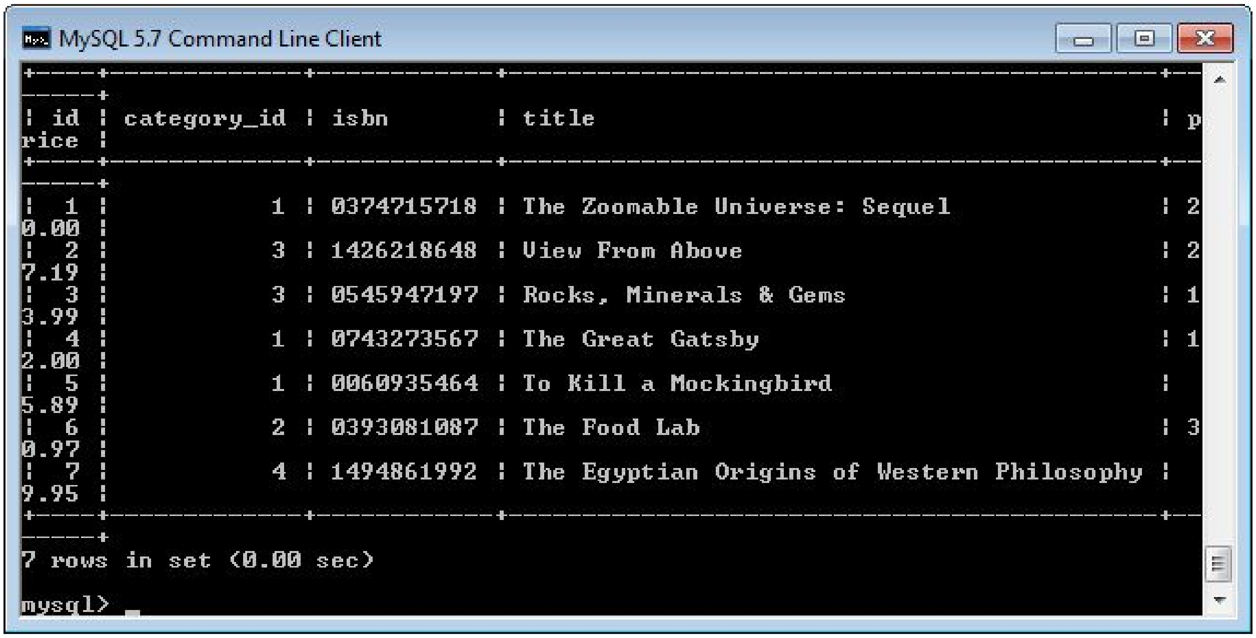
Update Book (Updating ID 1 to $20.00 and adjusting title)



```
private static void TestUpdateBook()
{
    GenericXmlApplicationContext ctx = new GenericXmlApplicationContext();
    ctx.load("classpath:META-INF/JDBC.xml");
    ctx.refresh();

    Book b = new Book();
    b.setCategoryid(1);
    b.setId((long)1);
    b.setIsbn("0374715718");
    b.setPrice((float)20.00);
    b.setTitle("The Zoomable Universe: Sequel");

    BookCRUD BookOperations = ctx.getBean("BookCRUD", BookCRUD.class);

    BookOperations.Print(BookOperations.GetAll(), true, "-------------------
    BookOperations.Update((long)1, b);
    BookOperations.Print(BookOperations.GetAll(), true, "-------------------
    ctx.close();
}
```

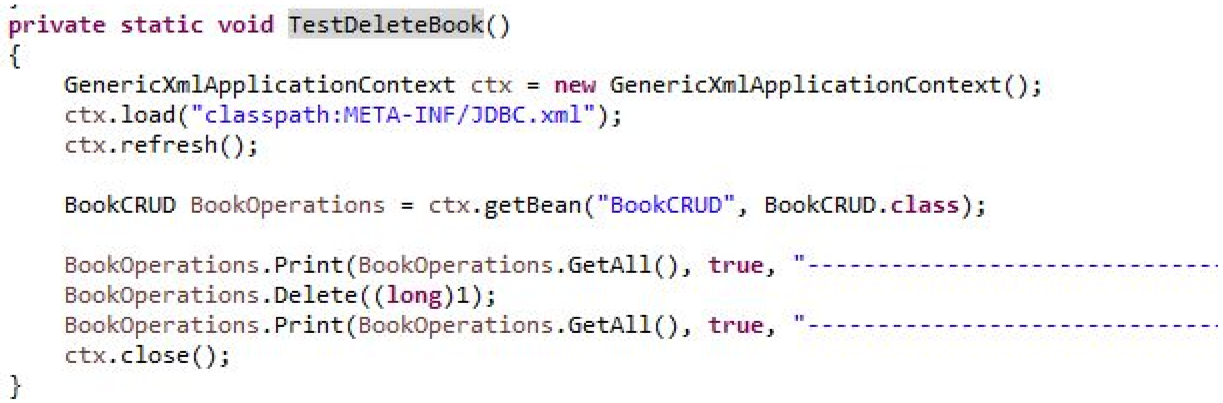


```
08:42:31.463 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_id
08:42:31.468 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:42:31.469 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Driv
Tue Oct 31 08:42:31 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not r
08:42:31.727 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to D
------------------------------Getting Books Before Update---------------------
(ID: 1, ISBN: 0374715718, Title: 'The Zoomable Universe', Price: 18.3, Category ID: 3)
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:42:31.739 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL update
08:42:31.741 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL statement [updat
08:42:31.741 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:42:31.741 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Driv
Tue Oct 31 08:42:31 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not r
08:42:31.877 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - SQL update affected 1 rows
08:42:31.879 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to D
08:42:31.880 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_id
08:42:31.880 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:42:31.880 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Driv
Tue Oct 31 08:42:31 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not r
08:42:31.912 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to D
------------------------------Getting Books After Update---------------------
(ID: 1, ISBN: 0374715718, Title: 'The Zoomable Universe: Sequel', Price: 20.0, Category ID: 1)
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)
```

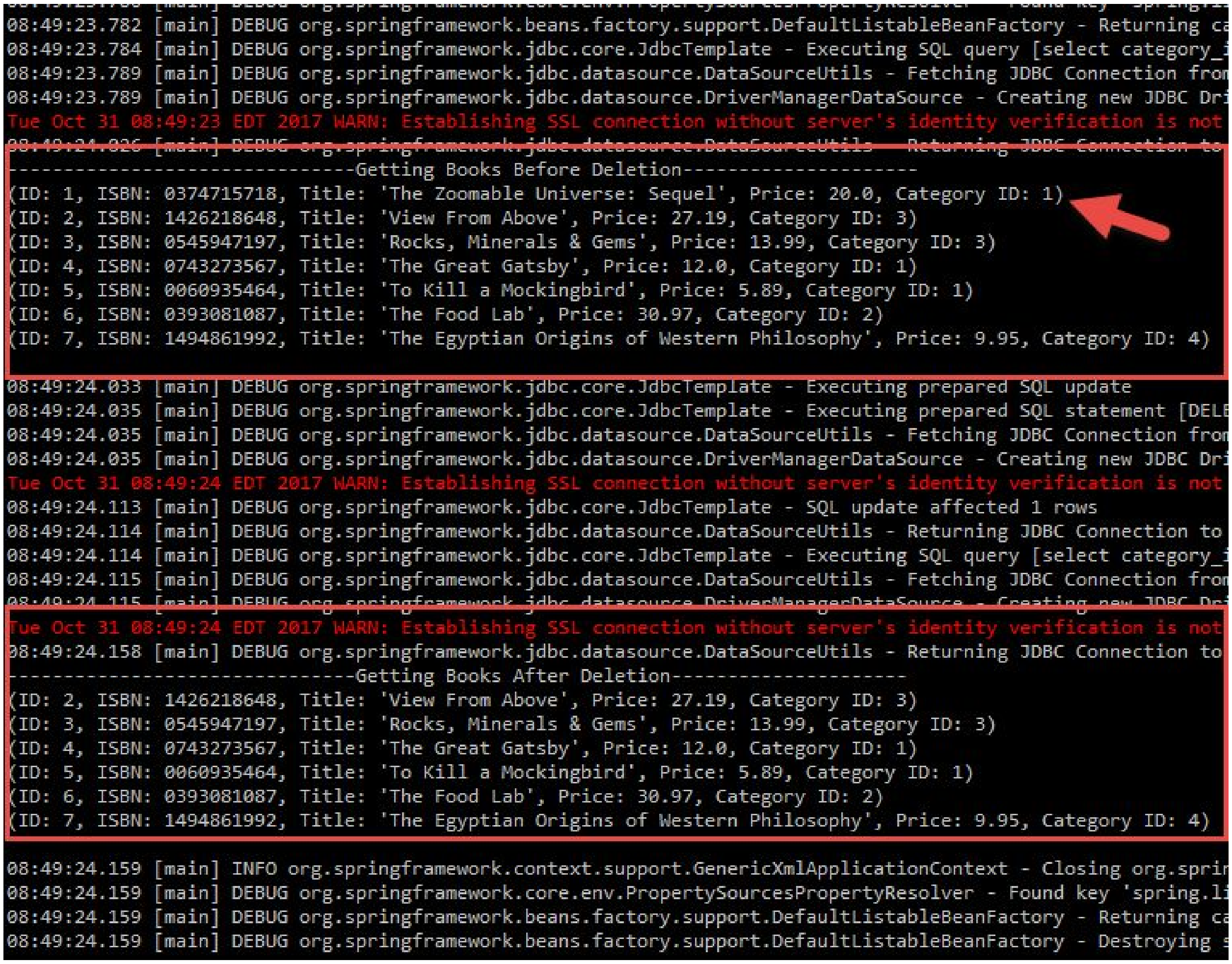


```
+----+-------------+------------+--------------------------------------------+--
-----+
¦ id ¦ category_id ¦ isbn       ¦ title                                      ¦ p
rice ¦
+----+-------------+------------+--------------------------------------------+--
-----+
¦  1 ¦           1 ¦ 0374715718 ¦ The Zoomable Universe: Sequel              ¦ 2
0.00 ¦
¦  2 ¦           3 ¦ 1426218648 ¦ View From Above                            ¦ 2
7.19 ¦
¦  3 ¦           3 ¦ 0545947197 ¦ Rocks, Minerals & Gems                     ¦ 1
3.99 ¦
¦  4 ¦           1 ¦ 0743273567 ¦ The Great Gatsby                           ¦ 1
2.00 ¦
¦  5 ¦           1 ¦ 0060935464 ¦ To Kill a Mockingbird                      ¦
5.89 ¦
¦  6 ¦           2 ¦ 0393081087 ¦ The Food Lab                               ¦ 3
0.97 ¦
¦  7 ¦           4 ¦ 1494861992 ¦ The Egyptian Origins of Western Philosophy ¦
9.95 ¦
+----+-------------+------------+--------------------------------------------+--
-----+
7 rows in set (0.00 sec)

mysql> _
```

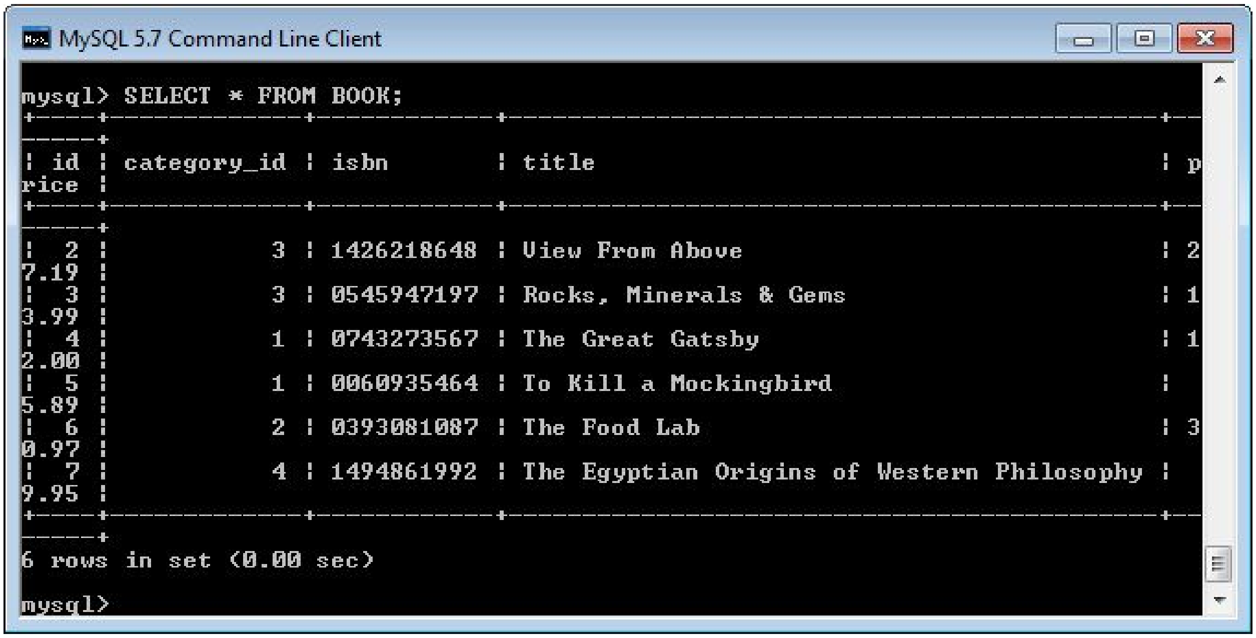
Delete Book (Deleted ID 1):



```
private static void TestDeleteBook()
{
    GenericXmlApplicationContext ctx = new GenericXmlApplicationContext();
    ctx.load("classpath:META-INF/JDBC.xml");
    ctx.refresh();

    BookCRUD BookOperations = ctx.getBean("BookCRUD", BookCRUD.class);

    BookOperations.Print(BookOperations.GetAll(), true, "-----------------------------
    BookOperations.Delete((long)1);
    BookOperations.Print(BookOperations.GetAll(), true, "-----------------------------
    ctx.close();
}
```

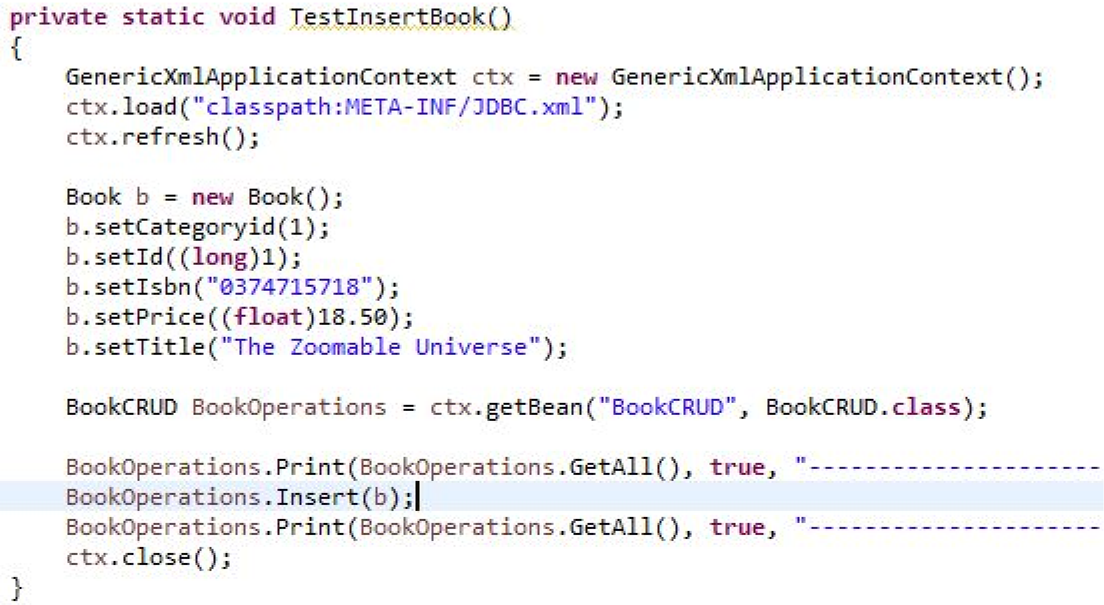


```
08:49:23.780 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.li
08:49:23.782 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning ca
08:49:23.784 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_i
08:49:23.789 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:49:23.789 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Dri
Tue Oct 31 08:49:23 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not
08:49:24.026 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to
------------------------------Getting Books Before Deletion--------------------
(ID: 1, ISBN: 0374715718, Title: 'The Zoomable Universe: Sequel', Price: 20.0, Category ID: 1)
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:49:24.033 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL update
08:49:24.035 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL statement [DELE
08:49:24.035 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:49:24.035 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Dri
Tue Oct 31 08:49:24 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not
08:49:24.113 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - SQL update affected 1 rows
08:49:24.114 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to
08:49:24.114 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_i
08:49:24.115 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from
08:49:24.115 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC Dri
Tue Oct 31 08:49:24 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not
08:49:24.158 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to
------------------------------Getting Books After Deletion--------------------
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:49:24.159 [main] INFO org.springframework.context.support.GenericXmlApplicationContext - Closing org.sprin
08:49:24.159 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.li
08:49:24.159 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning ca
08:49:24.159 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Destroying s
```

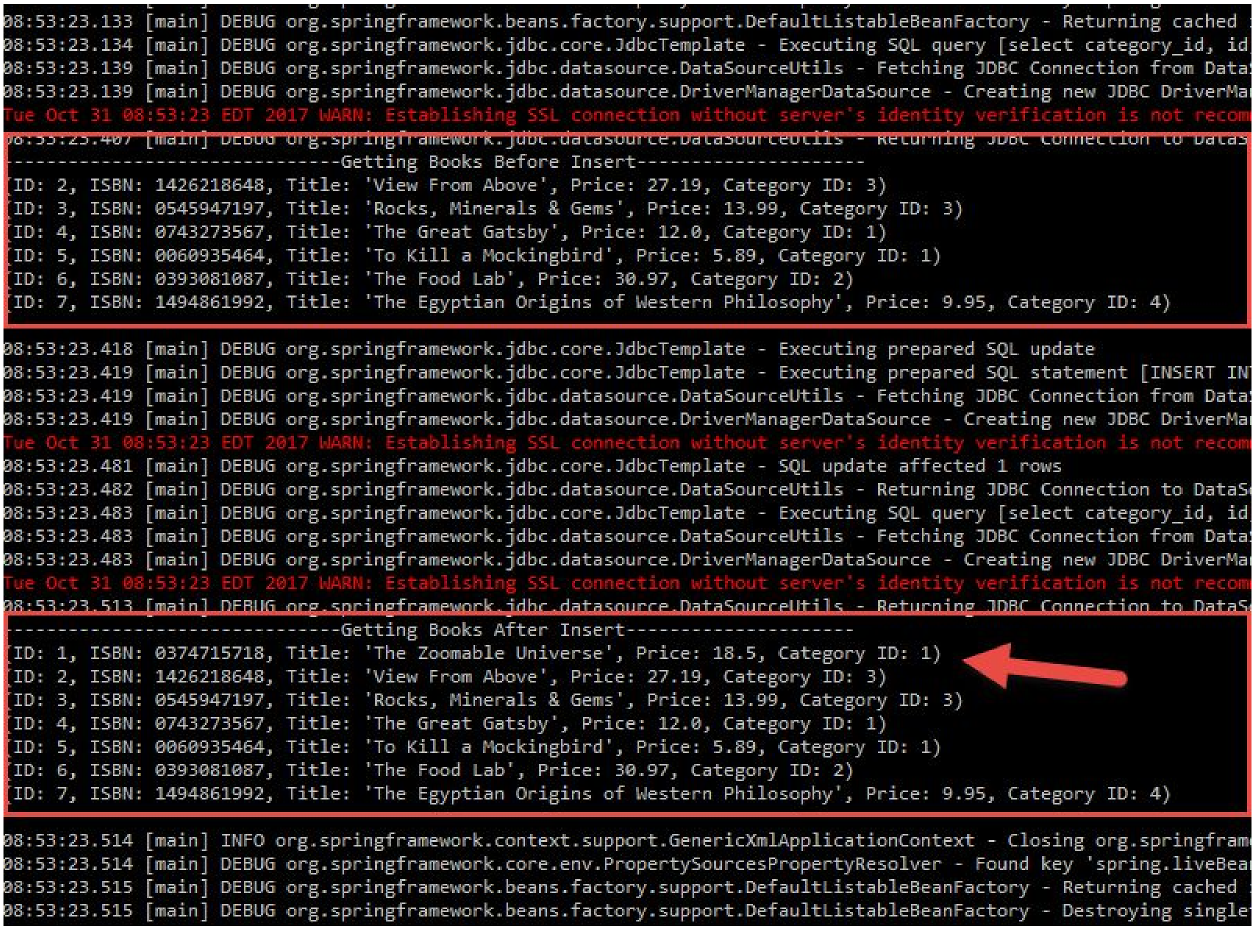


```
mysql> SELECT * FROM BOOK;
+----+-------------+------------+---------------------------------------------+--
-----+
| id | category_id | isbn       | title                                       | p
rice |
+----+-------------+------------+---------------------------------------------+--
-----+
|  2 |           3 | 1426218648 | View From Above                             | 2
7.19 |
|  3 |           3 | 0545947197 | Rocks, Minerals & Gems                      | 1
3.99 |
|  4 |           1 | 0743273567 | The Great Gatsby                            | 1
2.00 |
|  5 |           1 | 0060935464 | To Kill a Mockingbird                       |
5.89 |
|  6 |           2 | 0393081087 | The Food Lab                                | 3
0.97 |
|  7 |           4 | 1494861992 | The Egyptian Origins of Western Philosophy |
9.95 |
+----+-------------+------------+---------------------------------------------+--
-----+
6 rows in set (0.00 sec)

mysql>
```

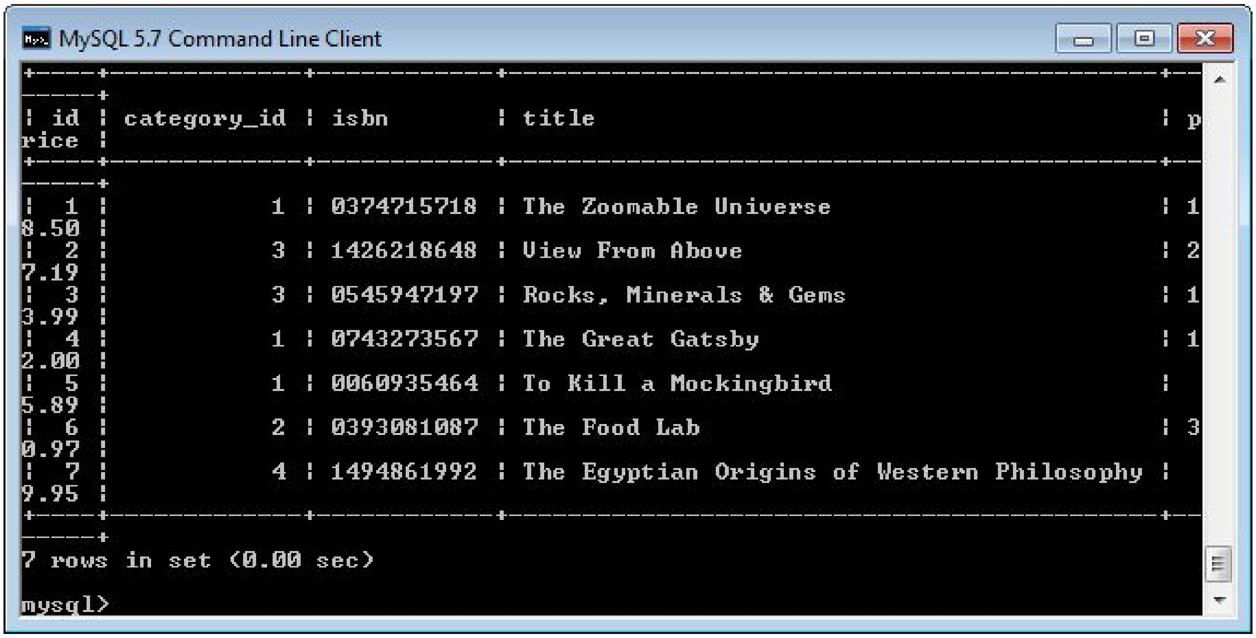
Insert Book (Inserting the original ID 1 book)



```java
private static void TestInsertBook()
{
    GenericXmlApplicationContext ctx = new GenericXmlApplicationContext();
    ctx.load("classpath:META-INF/JDBC.xml");
    ctx.refresh();

    Book b = new Book();
    b.setCategoryid(1);
    b.setId((long)1);
    b.setIsbn("0374715718");
    b.setPrice((float)18.50);
    b.setTitle("The Zoomable Universe");

    BookCRUD BookOperations = ctx.getBean("BookCRUD", BookCRUD.class);

    BookOperations.Print(BookOperations.GetAll(), true, "---------------------
    BookOperations.Insert(b);
    BookOperations.Print(BookOperations.GetAll(), true, "---------------------
    ctx.close();
}
```



```
08:53:23.133 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached i
08:53:23.134 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_id, id
08:53:23.139 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from Data
08:53:23.139 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC DriverMa
Tue Oct 31 08:53:23 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not recom
08:53:23.407 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to Datas
------------------------------Getting Books Before Insert--------------------
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:53:23.418 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL update
08:53:23.419 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing prepared SQL statement [INSERT INT
08:53:23.419 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from Data
08:53:23.419 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC DriverMa
Tue Oct 31 08:53:23 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not recom
08:53:23.481 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - SQL update affected 1 rows
08:53:23.482 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to DataSo
08:53:23.483 [main] DEBUG org.springframework.jdbc.core.JdbcTemplate - Executing SQL query [select category_id, id
08:53:23.483 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from Data
08:53:23.483 [main] DEBUG org.springframework.jdbc.datasource.DriverManagerDataSource - Creating new JDBC DriverMa
Tue Oct 31 08:53:23 EDT 2017 WARN: Establishing SSL connection without server's identity verification is not recom
08:53:23.513 [main] DEBUG org.springframework.jdbc.datasource.DataSourceUtils - Returning JDBC Connection to DataSo
------------------------------Getting Books After Insert--------------------
(ID: 1, ISBN: 0374715718, Title: 'The Zoomable Universe', Price: 18.5, Category ID: 1)
(ID: 2, ISBN: 1426218648, Title: 'View From Above', Price: 27.19, Category ID: 3)
(ID: 3, ISBN: 0545947197, Title: 'Rocks, Minerals & Gems', Price: 13.99, Category ID: 3)
(ID: 4, ISBN: 0743273567, Title: 'The Great Gatsby', Price: 12.0, Category ID: 1)
(ID: 5, ISBN: 0060935464, Title: 'To Kill a Mockingbird', Price: 5.89, Category ID: 1)
(ID: 6, ISBN: 0393081087, Title: 'The Food Lab', Price: 30.97, Category ID: 2)
(ID: 7, ISBN: 1494861992, Title: 'The Egyptian Origins of Western Philosophy', Price: 9.95, Category ID: 4)

08:53:23.514 [main] INFO org.springframework.context.support.GenericXmlApplicationContext - Closing org.springfram
08:53:23.514 [main] DEBUG org.springframework.core.env.PropertySourcesPropertyResolver - Found key 'spring.liveBea
08:53:23.515 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Returning cached i
08:53:23.515 [main] DEBUG org.springframework.beans.factory.support.DefaultListableBeanFactory - Destroying single
```



```
+----+-------------+------------+--------------------------------------------+--
------+
| id | category_id | isbn       | title                                      | p
rice |
+----+-------------+------------+--------------------------------------------+--
------+
|  1 |           1 | 0374715718 | The Zoomable Universe                      | 1
8.50 |
|  2 |           3 | 1426218648 | View From Above                            | 2
7.19 |
|  3 |           3 | 0545947197 | Rocks, Minerals & Gems                     | 1
3.99 |
|  4 |           1 | 0743273567 | The Great Gatsby                           | 1
2.00 |
|  5 |           1 | 0060935464 | To Kill a Mockingbird                      |
5.89 |
|  6 |           2 | 0393081087 | The Food Lab                               | 3
0.97 |
|  7 |           4 | 1494861992 | The Egyptian Origins of Western Philosophy |
9.95 |
+----+-------------+------------+--------------------------------------------+--
------+
7 rows in set (0.00 sec)

mysql>
```