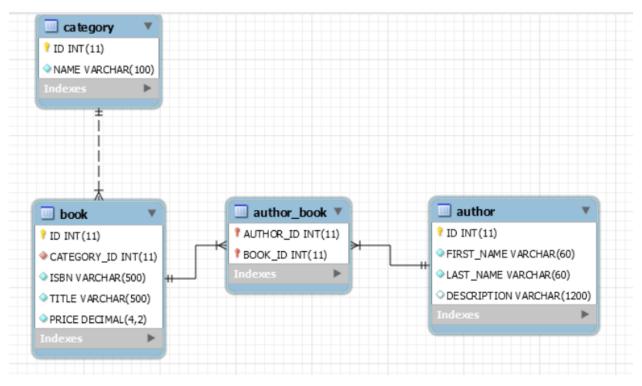
# Part1-Assignment-2: Spring Hibernate

1. The program uses a databases named **hibernatedb** I created with MySql server(**User**: **root** and **password**: ). We have four tables **book**, **author**, **author**, **book** and **category**. the schema is



2. I used the Maven command line to create my project:

mvn archetype:generate -DgroupId=edu.herve.spring.hibernate -SpringHibernate

- -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
- 3. I edited the **pom.xml** and I added the necessaries dependencies.
- 4. I created the folder main\resources manually.
- 5. I created the folder main\resources\META-INF\sql where I put my shema.sql corresponding to my database shema and test-data.sql to insert some data; the data are

```
mysql> select * from book;
 ID | CATEGORY_ID | ISBN
                                     TITLE
                                                              PRICE
  1
                  1
                      1457896545
                                     Beegining Java
                                                                  61
  2
                  1
                      5485632322
                                     Java Entreprise Edit
                                                                  70
  3
                  2
                      5765522262
                                     Mysql Concepts
                                                                  46
                                     Beegining Mysql
                                                                  49
  4
                  2
                       7523232223
  5
                  1
                      4875656565
                                     Java for non program
                                                                  86
                                     Advanced Java Concep
                                                                  66
                      457565656
 rows in set (0.00 sec)
mysql> select * from category;
 ID | NAME
      Java
    | Mysql
 rows in set (0.00 sec)
mysql> select * from author;
 ID | FIRST_NAME | LAST_NAME |
                           DESCRIPTION
                 Smith
                            very young and popular author
                 Perkins
                            new and revolutionary author
     Daniel
                            From China and very well established in the authors list
      Jet
                 Li
```

specialized in Mysql and brought a huge plus to this community

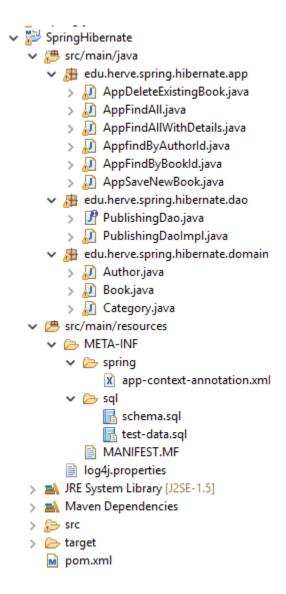
Wall

Marcus

rows in set (0.00 sec)

mysql> select	* from author_book;				
AUTHOR_ID	BOOK_ID				
1	1				
1	2				
1	7				
2	1				
2	2				
2	7				
3	1				
3	2				
3	3				
3	5				
3	6				
4	2				
4	3				
4	4				
4	5				
4	6				
4	7				
++ 17 rows in set (0.00 sec)					

- 6. I created the folder main\resources\META-INF\spring where I put my app-context-xml.xml
- 7. I imported my project into Eclipse IDE and I created the packages:
  - edu.herve.spring.jdbc.domain containing the classes Book.java, Author.java and
     Category.java corresponding to the tree tables book, author and category on the database.
  - edu.herve.spring.jdbc.dao containing the interface PublishingDao.java where i created the methods corresponding to the functionalities of my program. The class PublishingDao DaoImpl.java implementing the interface PublishingDao Dao.java.
  - **edu.herve.spring.jdbc.app** Containing the classes executing each of the functionalities listed in the assignment.
    - **AppFindAll.java**: find all books without authors and categories
    - **AppFindAllWithDetails.java:** find all books with authors and categories.
    - AppFindByBookId.java: find a book with authors and category by book's ID
    - **AppfindByAuthorId.java:** Find all books for one author id who has more than one book in the database.
    - **AppSaveNewBook.java:** add and save in your database a new book.
    - **AppDeleteExistingBook.java:** delete the saved book from the database.



- 8. the building and the execution of my application has the following results.
  - for the methods findAll()

### for the method findAllWithDetail()

```
Listing books with details:

300k [id=1, isbn=1457806545, title=Beegining Java, price=61.0]

Author [id-2, firstName=John , lastName=Smith, description=very young and popular author]

Author [id-2, firstName=John , lastName=Ferkins , description=new and revolutionary author]

Author [id-2, firstName=John , lastName=Ferkins , description=From China and very well established in the authors list]

300k [id-2, isbn=5485632322, title=Java Entreprise Edit, price=70.0]

Author [id-3, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Mall, description=very young and popular author]

Author [id-2, firstName=Danie] , lastName=Perkins , description=new and revolutionary author]

Author [id-2, firstName=Danie] , lastName=Perkins , description=new and revolutionary author]

Author [id-3, firstName=Danie] , lastName=Ferkins , description=new and revolutionary author]

Author [id-3, firstName=Danie] , lastName=Li, description=From China and very well established in the authors list]

300k [id-5, isbn=4875656565, title=Java for non program, price=86.0]

Category - Id: 1, Name: Java

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this community]

Author [id-4, firstName=Marcus, lastName=Wall, description=specialized in Mysql and brought a huge plus to this commu
```

For the method findByld(int id)

#### For the method save(Book newBook)

```
mysql> select * from book;
       CATEGORY_ID | ISBN
                                                            PRICE
 ΙD
                                   TITLE
  1
                 1
                      1457896545
                                    Beegining Java
                                                                61
  2
                 1
                                    Java Entreprise Edit
                      5485632322
                                                                70
  3
                  2
                      5765522262
                                                                46
                                    Mysql Concepts
  4
                  2
                      7523232223
                                    Beegining Mysql
                                                                49
  5
                  1
                      4875656565
                                    Java for non program
                                                                86
  6
                  1
                      457565656
                                    Advanced Java Concep
                                                                66
   7
                      1457522GF
                                    NEW BOOK
                                                                46
                  1
 rows in set (0.00 sec)
```

## For the method delete(Book newBook)

mysql> sele			<b>+</b>	
	GORY_ID		TITLE	PRICE
1     2     3     4     5     6	1   1   2   2   1   1	1457896545 5485632322 5765522262 7523232223 4875656565 457565656	Beegining Java   Java Entreprise Edition   Mysql Concepts   Beegining Mysql   Java for non programmers   Advanced Java Concepts	60.59     69.99     45.98     48.99     85.65     65.99
6 rows in s		sec)	+	++

## For the method findByAuthorId(int id)

```
Book, cathegory and authors with Author id 3:
Book [id=1, isbn=1457896545, title=Beegining Java, price=61.0]
Category - Id: 1, Name: Java
Author [id=3, firstName=Jet, lastName=Li, description=From China and very well established in the authors list]

Book [id=2, isbn=5485632322, title=Java Entreprise Edit, price=70.0]
Category - Id: 1, Name: Java
Author [id=3, firstName=Jet, lastName=Li, description=From China and very well established in the authors list]

Book [id=5, isbn=4875656565, title=Java for non program, price=86.0]
Category - Id: 1, Name: Java
Author [id=3, firstName=Jet, lastName=Li, description=From China and very well established in the authors list]

Book [id=6, isbn=457565656, title=Advanced Java Concep, price=66.0]
Category - Id: 1, Name: Java
Author [id=3, firstName=Jet, lastName=Li, description=From China and very well established in the authors list]

Book [id=3, isbn=5765522262, title=Mysql Concepts , price=46.0]
Category - Id: 2, Name: Mysql
Author [id=3, firstName=Jet, lastName=Li, description=From China and very well established in the authors list]
```