

Exercises — Bookshelf - 2

version #



ASSISTANTS C/UNIX 2022 <assistants@tickets.assistants.epita.fr>

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1 Bookshelf - 2

Files to submit:

- bookshelf_2/req09.sql
- bookshelf_2/req10.sql
- bookshelf_2/req11.sql
- bookshelf_2/req12.sql
- bookshelf_2/req13.sql
- bookshelf_2/req14.sql
- bookshelf_2/req15.sql
- bookshelf_2/req16.sql
- bookshelf_2/req17.sql
- bookshelf_2/req18.sql
- bookshelf_2/req19.sql

Provided files:

- bookshelf_2/schema.sql
- bookshelf_2/data.sql

1.1 Goal

This exercise is a continuation of bookshelf - 1.

1.1.1 Exercises

Below is the list of exercises you must submit. If the type of ordering is not specified, then it must be ascending.

req09.sql:

List countries and authors, ordered by country, then by author.

Example:

country	name
	Edgar Allan Poe
	George RR Martin Anne Robillard
	Agatha Christie

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(continued from previous page)

```
England | Arthur Conan Doyle
England | JK Rowling
England | JRR Tolkien
France | Paul Verlaine
France | Victor Hugo
NoWhere | JM Plagiat
(10 rows)
```

req10.sql:

List poems written by french authors, ordered by title, then by author.

Example:

req11.sql:

List authors that are still alive, ordered by name.

Example:

```
name
-----
Anne Robillard
George RR Martin
JK Rowling
JM Plagiat
(4 rows)
```

req12.sql:

List books that have not been released strictly before the author's death, ordered by title then by author name.

Example:

title	name
Epicness Romances sans paroles (2 rows)	Paul Verlaine Paul Verlaine

req13.sql:

List the first book written by each author, ordered by title then by author. If multiple first books have been released at the same time, all of them must be listed.

Example:

title	I	author
A Game of Thrones		George RR Martin
A Game of Thrones	1	JM Plagiat
And Then There Were None		Agatha Christie
A Study in Scarlet		Arthur Conan Doyle
Epicness		Paul Verlaine
Harry Potter and the Chamber of Secret		JK Rowling
Le Feu dans le ciel		Anne Robillard
Les Miserables		Victor Hugo
The Hobbit		JRR Tolkien
The Raven and other Poems		Edgar Allan Poe
(10 rows)		

Be careful!

For this request, we suggest you take a look at the subqueries documentation or to come back after reading the second practical.

req14.sql:

List authors and the number of days:

- they were alive if they are dead,
- they were old at the date '2000-01-01' if they are still alive.

The result should be ordered by name. You should not display authors that were not born before '2000-01-01'. Authors born this exact day should be displayed.

Example:

name	I	days
Agatha Christie	-+·	31164
Anne Robillard	I	16397
Arthur Conan Doyle	1	25978
Edgar Allan Poe	1	14871
George RR Martin		18730
JK Rowling		12572
JM Plagiat	-	1263
JRR Tolkien	-	29827
Paul Verlaine	-	18911
Victor Hugo	ı	30401
(10 rows)		

req15.sql:

List authors and the number of books from the bookshelf that they have written, ordered by author. You must also display the suffix "book" or "books" in the stocks column, based on the plurality of the number. Do not display authors who do not have any books in the bookshelf.

Example:

name		tocks
Agatha Christie	-	
Anne Robillard		
Arthur Conan Doyle	1 2	books
Edgar Allan Poe	1	book
George RR Martin	3	books
JK Rowling	1	book
JM Plagiat	1	book
JRR Tolkien	3	books
Paul Verlaine	1 2	books
Victor Hugo	1	book
(10 rows)		

req16.sql:

List titles, their authors and release dates, ordered by release date in descending order (latest release first), then by title, then by author's name. Books released in the 20th century **MUST NOT** be displayed.

Example:

title	1	author	1	release
A Dance with Dragons	Ċ	George RR Martin		2011-07-12
A Feast for Crows	1	George RR Martin	1	2005-10-17
A Game of Thrones		JM Plagiat	1	2004-01-01
Le Feu dans le ciel		Anne Robillard	1	2003-02-10
Romances sans paroles		Paul Verlaine	1	2002-01-01
A Study in Scarlet	-	Arthur Conan Doyle	-	1887-01-01
Les Miserables		Victor Hugo	1	1862-01-01
The Raven and other Poems	1	Edgar Allan Poe		1845-01-01
(8 rows)				

req17.sql:

List titles, their authors and release years, ordered by release year in descending order (latest release first), then by title, then by author's name.

Example:

title	author	release_year
A Dance with Dragons	George RR Martin	
A Feast for Crows	George RR Martin	2005
A Game of Thrones	JM Plagiat	1 2004
Le Feu dans le ciel	Anne Robillard	2003
Romances sans paroles	Paul Verlaine	2002
Harry Potter and the Chamber of Secret	JK Rowling	l 1998
A Game of Thrones	George RR Martin	l 1996
The Fellowship of the Ring	JRR Tolkien	l 1954
And Then There Were None	Agatha Christie	1939
Epicness	Paul Verlaine	1937
The Hobbit	JRR Tolkien	1937
The Hound of the Baskervilles	Arthur Conan Doyle	1902
A Study in Scarlet	Arthur Conan Doyle	1887
Les Miserables	Victor Hugo	1862
The Raven and other Poems	Edgar Allan Poe	l 1845
(15 rows)		

req18.sql:

Create the add_author function, which returns whether the insertion was successful.

Prototype:

req19.sql:

Create the add_book function, which returns whether the insertion was successful. Do not insert a book released strictly before the author's birth date.

Prototype:

It is my job to make sure you do yours.