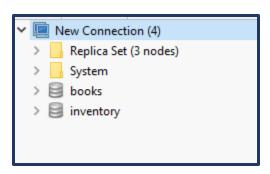
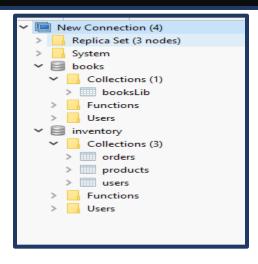
## -Import inventory database

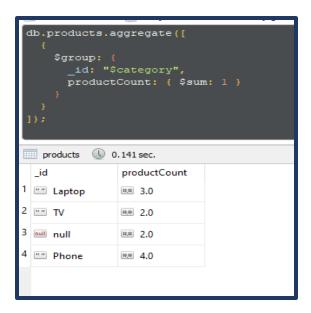
- import books.json.

```
D:\ITI 2023 2024\mongoDb\Inventory>mongorestore --uri "mongodb+srv://nourantareqmohamed:HHvw&soG2oa2mok7@nouranscluster0.4zfzjbg.mongodb.net/inventory" -c products ./p
roducts.bson
2024-02-03T01:46:53.646+0200
                                 checking for collection data in products.bson
2024-02-03T01:46:53.650+0200
                                 reading metadata for inventory.products from products.metadata.json
2024-02-03T01:46:53.925+0200
                                 restoring inventory.products from products.bson
2024-02-03T01:46:54.090+0200
                                 finished restoring inventory.products (11 documents, 0 failures)
2024-02-03T01:46:54.090+0200
                                 restoring indexes for collection inventory.products from metadata
2024-02-03T01:46:54.097+0200 index: &idx.IndexDocument{Options:primitive.M{"default_language":"english", "language_override":"language", "name":"name_text", "textInd exVersion":3, "v":2, "weights":primitive.M{"name":1}}, Key:primitive.D{primitive.E{Key:"_fts", Value:"text"}, primitive.E{Key:"_ftsx", Value:1}}, PartialFilterExpressio
n:primitive.D(nil)}
2024-02-03T01:46:54.293+0200
                                 11 document(s) restored successfully. 0 document(s) failed to restore.
D:\ITI 2023 2024\mongoDb\Inventory>mongorestore --uri "mongodb+srv://nourantareqmohamed:HHvw8soG2oa2mok7@nouranscluster0.4zfzjbg.mongodb.net/inventory" -c users ./user
s.bson
2024-02-03T01:48:19.607+0200
                                 checking for collection data in users.bson
2024-02-03T01:48:19.610+0200
                                 reading metadata for inventory.users from users.metadata.json
2024-02-03T01:48:19.881+0200
                                 restoring inventory.users from users.bson
2024-02-03T01:48:20.007+0200
                                 finished restoring inventory.users (2 documents, 0 failures)
2024-02-03T01:48:20.007+0200
                                 no indexes to restore for collection inventory.users
2024-02-03T01:48:20.011+0200
                                 2 document(s) restored successfully. 0 document(s) failed to restore.
D:\ITI 2023_2024\mongoDb\Inventory>mongorestore --uri "mongodb+srv://nourantareqmohamed:HHvw8soG2oa2mok7@nouranscluster0.4zfzjbg.mongodb.net/inventory" -c orders ./ord
ers.bson
2024-02-03T01:48:38.085+0200
                                 checking for collection data in orders.bson
2024-02-03T01:48:38.088+0200
                                 reading metadata for inventory.orders from orders.metadata.json
2024-02-03T01:48:38.350+0200
                                 restoring inventory.orders from orders.bson
2024-02-03T01:48:38.472+0200
                                 finished restoring inventory.orders (3 documents, 0 failures)
2024-02-03T01:48:38.472+0200
                                 no indexes to restore for collection inventory.orders
2024-02-03T01:48:38.475+0200
                                 3 document(s) restored successfully. 0 document(s) failed to restore.
D:\ITI 2023_2024\mongoDb\Inventory>mongoimport --uri mongodb+srv://nourantareqmohamed:HHvw8soG2oa2mok7@nouranscluster0.4zfzjbg.mongodb.net/books --collection booksLib
/books.json --jsonArray
2024-02-03T01:51:33.699+0200
                                 connected to: mongodb+srv://[**REDACTED**]@nouranscluster0.4zfzjbg.mongodb.net/books
                                 [###################] books.booksLib
2024-02-03T01:51:36.702+0200
                                                                                    484KB/484KB (100.0%)
2024-02-03T01:51:39.529+0200
                                 [##################] books.booksLib
                                                                                    484KB/484KB (100.0%)
2024-02-03T01:51:39.529+0200
                                 398 document(s) imported successfully. 0 document(s) failed to import.
D:\ITI 2023_2024\mongoDb\Inventory>
```

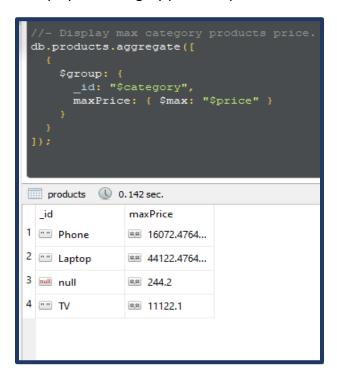




- Display number of products per category.



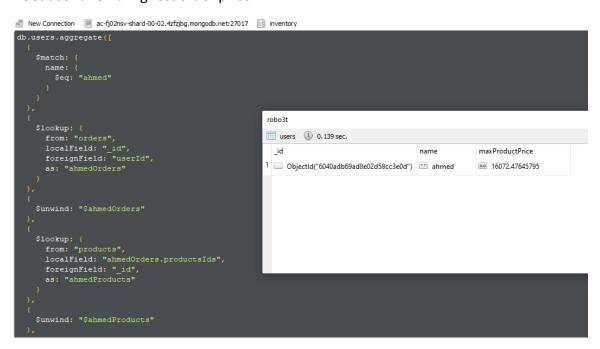
- Display max category products price.



- Display user ahmed orders populated with product.

```
db.users.aggregate([
 {
Smatch: {
ie: "ahmed"
     $lookup: {
                                                                 robo3t
       from: "orders",
       localField: "_id",
foreignField: "userId",
                                                                 users ( 0.141 sec.
                                                                                  ahmedOrders
                                                                                                 ahmed Products \\
                                                                 1 mahmed
                                                                                  [2 elements]
[2 elements]
    $lookup: {
  from: "products",
       foreignField: "_id",
       _id: 0,
name: 1,
       ahmedOrders: 1,
       ahmedProducts: 1,
```

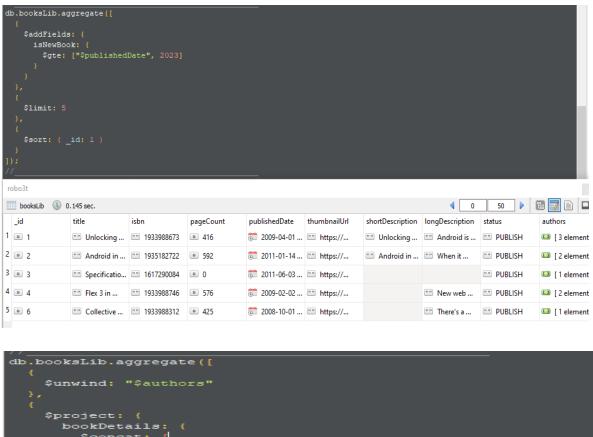
- Get user ahemd highest order price

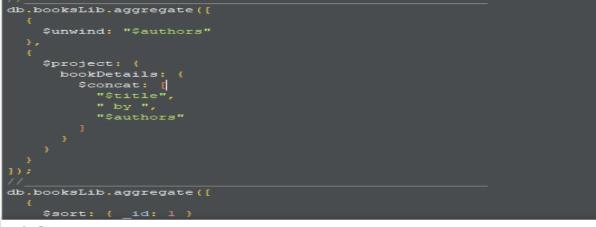


```
$group: {
    _id: "$_id",
        name: { $first: "$name" },
        maxProductPrice: { $max: "$ahmedProducts.price" }
    }
}
```

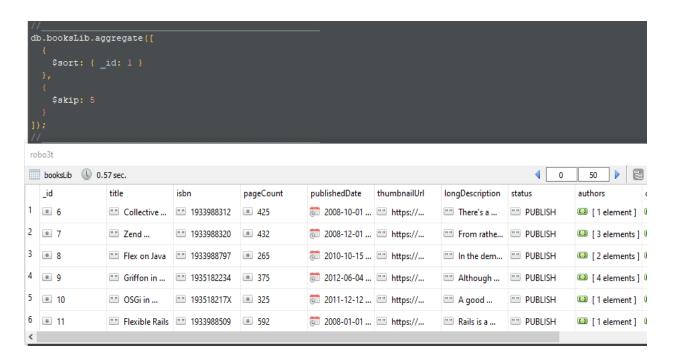
```
db.booksLib.aggregate([
     $group: {
   _id: "$categories",
   bookNum: { $sum: 1 }
robo3t
booksLib 0.14 sec.
  _id
                                  bookNum
4 Theory
                                  #.# 7.0
5 Software Engineering
                                  ## 16.0
6 "" Networking
                                  ## 7.0
7 "" java
                                  ## 1.0
8 mm SOA
                                  ## 1.0
9 Python
                                  ## 6.0
```

robo3t						
booksLib 0.341 sec.						
	_id	title	pageCount	authors		
1	# 3	Specification by Example	# 0	Gojko Adzic		
2	# 6	Collective Intelligence in Action	# 425	Satnam Alag		
3	# 1	"" Unlocking Android	<b># 416</b>	" W. Frank Ableson		
4	# 1	Unlocking Android	# 416	Charlie Collins		
5	# 1	Unlocking Android	# 416	Robi Sen		
6	# 4	Flex 3 in Action	<b>#</b> 576	Tariq Ahmed with Jon Hirschi		
7	- A	mm Flac 2 to Austra	* 576	mm Pattal Abid		





robo3t booksLib ① 0.149 sec. bookDetails \_id Specification by Example by Gojko Adzic # 3 Collective Intelligence in Action by Satnam Alag # 6 3 # 1 Unlocking Android by W. Frank Ableson 4 # 1 " Unlocking Android by Charlie Collins Unlocking Android by Robi Sen # 1





obo3t

booksLib (1.09 sec.						
_id	title	publishedDate				
# 3	"" Specification by Example	2011-06-03				
# 6	Collective Intelligence in Action	2008-10-01				
# 1	"" Unlocking Android	"" 2009-04-01				
# 4	"" Flex 3 in Action	2009-02-02				
- 1	mm A.J.:J:. A.E CJ FJE:	THE 2011 01 14				