***Design 1***

***Selection of all documents in a collection, in JSON format.***

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.find**({});**

***Selection of embedded array data, based on selection criteria.***

***-****querying the Genre embedded array data*

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.find**(**

**{**

"User. Rating" **:** "4.5"

**}**

**);**

***Selection showing Projection.***

***-****Ratings greater than 4.5, projecting the name & author*

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.find**(**

**{**

"User. Rating" **:** **{**

"$gt" **:** "4.5"

**}**

**},**

**{**

"Name" **:** 1.0**,**

"Author" **:** 1.0

**}**

**);**

***Selection with sorted output***

***-****sorted based on price.*

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.find**(**

**{**

"User. Rating" **:** **{**

"$gt" **:** "4.5"

**}**

**},**

**{**

"Name" **:** 1.0**,**

"Author" **:** 1.0**,**

"Price" **:** 1.0

**}**

**)**.sort**(**

**{**

"Price" **:** 1.0

**}**

**);**

***Aggregation***

*-Getting the avg rating of authors and sorting based on id*

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.aggregate**(**

**[**

**{**

"$group" **:** **{**

"\_id" **:** "$Author"**,**

"average\_rating" **:** **{**

"$avg" **:** "$User. Rating"

**}**

**}**

**},**

**{**

"$sort" **:** **{**

"\_id" **:** 1.0

**}**

**}**

**],**

**{**

"allowDiskUse" **:** true

**}**

**);**

***Update***

***-updating the value of all ratings to be 5.0***

use BestSellers**;**

db.getCollection**(**"BestSellers1"**)**.aggregate**(**

**[**

**{**

"$set" **:** **{**

"User. Rating" **:** 5.0

**}**

**}**

**],**

**{**

"allowDiskUse" **:** true

**}**

**);**

***Design 2***

***Selection of all documents in a collection, in JSON format.***

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.find**({});**

***Selection of embedded array data, based on selection criteria.***

***-****querying the Genre embedded array data*

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.find**(**

**{**

"Info. Genre" **:** "Non Fiction"

**}**

**);**

***Selection showing Projection.***

***-****Ratings greater than 4.5, projecting the name & author*

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.find**(**

**{**

"User. Rating" **:** **{**

"$gt" **:** "4.5"

**}**

**},**

**{**

"Name" **:** 1.0**,**

"Author" **:** 1.0

**}**

**);**

***Selection with sorted output***

***-****sorted based on price.*

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.find**(**

**{**

"User. Rating" **:** **{**

"$gt" **:** "4.5"

**}**

**},**

**{**

"Name" **:** 1.0**,**

"Author" **:** 1.0**,**

"Price" **:** 1.0

**}**

**)**.sort**(**

**{**

"Price" **:** 1.0

**}**

**);**

***Aggregation***

*-Getting the avg rating of authors and sorting based on id*

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.aggregate**(**

**[**

**{**

"$group" **:** **{**

"\_id" **:** "$Author"**,**

"average\_rating" **:** **{**

"$avg" **:** "$User. Rating"

**}**

**}**

**},**

**{**

"$sort" **:** **{**

"\_id" **:** 1.0

**}**

**}**

**],**

**{**

"allowDiskUse" **:** true

**}**

**);**

***Update***

***-updating the value of all ratings to be 5.0***

use BestSellers**;**

db.getCollection**(**"BestSellers2"**)**.aggregate**(**

**[**

**{**

"$set" **:** **{**

"User. Rating" **:** 5.0

**}**

**}**

**],**

**{**

"allowDiskUse" **:** true

**}**

**);**