

Homework 5 (Database NoSQL – MongoDB)

Fast Track Data Engineer

Source Data: gitlab.com/farhansmg/dskola_nosql_project3/

Requirment:

1. Find all books authored by "Author 5" that have been borrowed by any user but not yet returned.
2. List all books published before the year 1980 and have more than 5 copies available.
3. Find the top 5 most recently published books in the "Fantasy" genre.
4. Count the number of books available for each genre.
5. Find all books that have never been borrowed by any user.

Queri

1.

```
filterNo1 = collection.find({ "author": "Author 5",
    "borrowed_by": {
        "$elemMatch": {
            "return_date": None
        }
    }
})

for doc in filterNo1:
    print(doc)
```
2.

```
filterNo2 = collection.find({"published_year": {"$lt": 1980},
    "copies_available": {"$gt": 6}
})

for doc in filterNo2:
    print(doc)
```
3.

```
filterNo3 = collection.aggregate({"genre": "Fantasy"}).limit(5)

for doc in filterNo3:
    print(doc)
```
4.

```
filterNo4 = collection.aggregate([
    {
        "$group": {
            "_id": "$genre",
            "count": {"$sum": 1}
        }
    }
])
```

```
},  
{  
    "$sort": {"count": -1}  
}  
)
```

for result in filterNo4:

```
    print(f'Genre: {result['_id']], Count: {result['count']}")
```

```
5. filterNo5 = collection.find({  
    "borrowed_by": []  
})
```

for doc in filterNo5:

```
    print(doc)
```

notebook jupyter :



Homework 5
NoSQL.ipynb