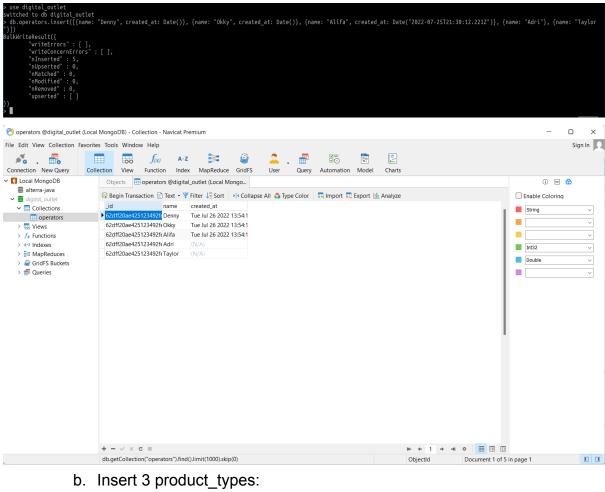
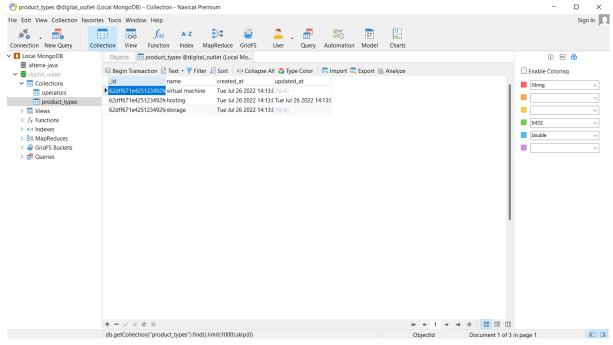
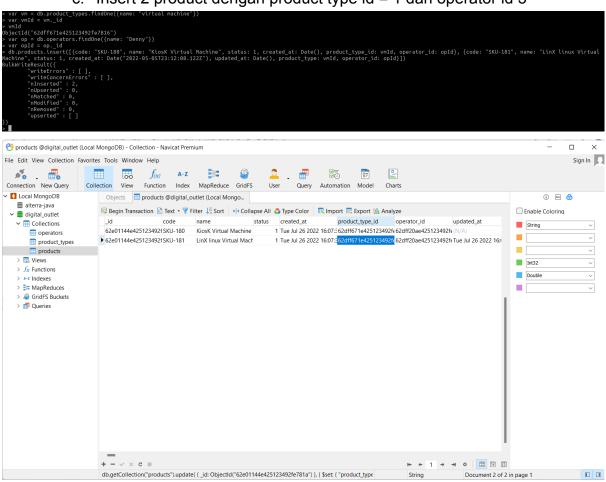
Task 1 - Introduction to NoSQL and MongoDB

- 1. Create
 - a. Buat 5 data operator pada tabel operators:

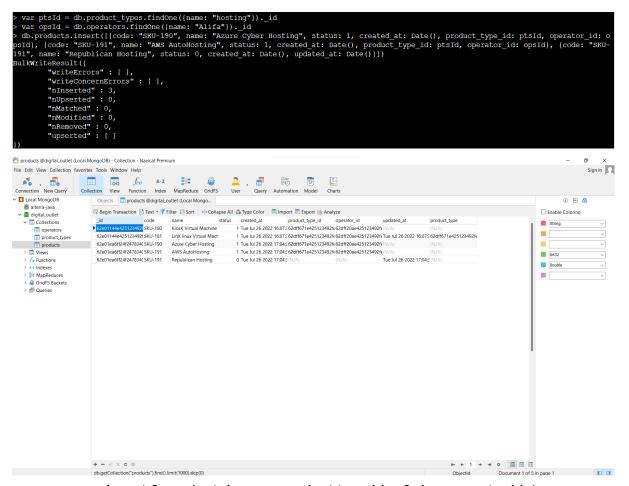




c. Insert 2 product dengan product type id = 1 dan operator id 3

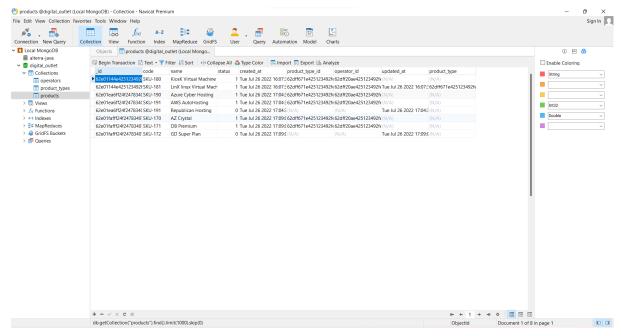


d. Insert 3 product dengan product type id = 2 dan operator id 1

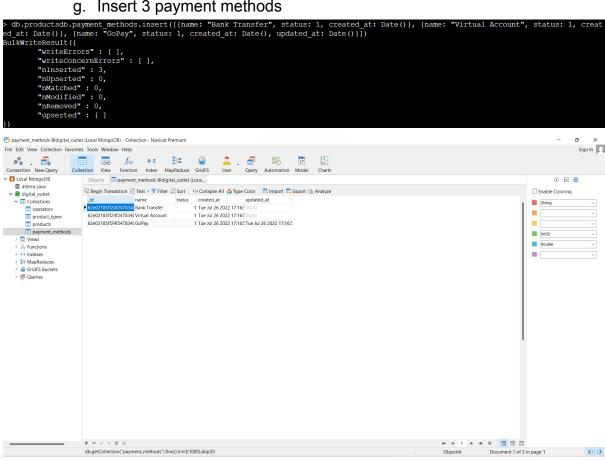


e. Insert 3 product dengan product type id = 3 dan operator id 4

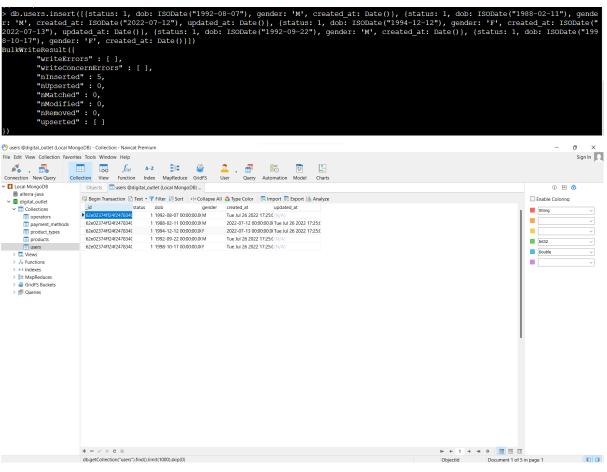
```
teResult({
    "writeErrors" : [],
    "writeConcernErrors" : [],
    "nInserted" : 3,
    "nUpserted" : 0,
    "nMatched" : 0,
    "nModified" : 0,
    "nRemoved" : 0,
    "upserted" : []
```



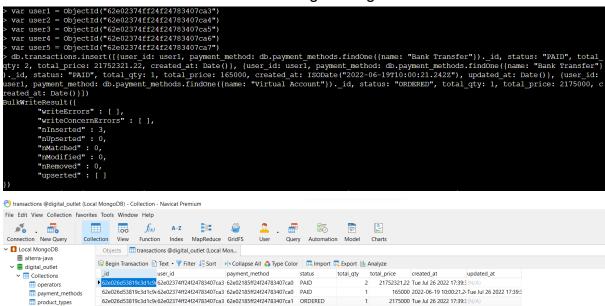
- f. Insert product description pada setiap product
- g. Insert 3 payment methods

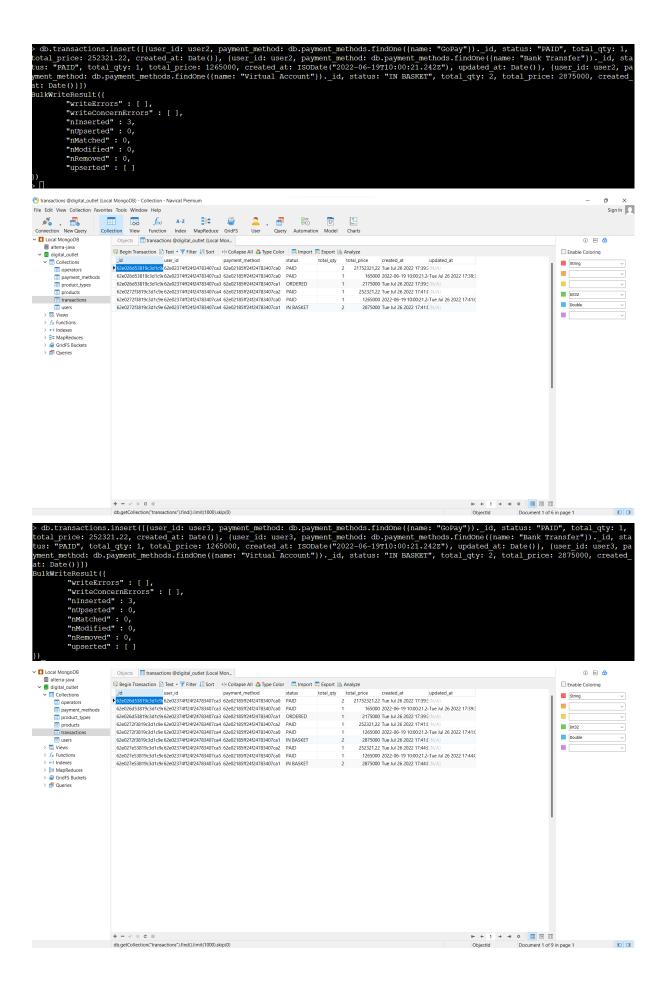


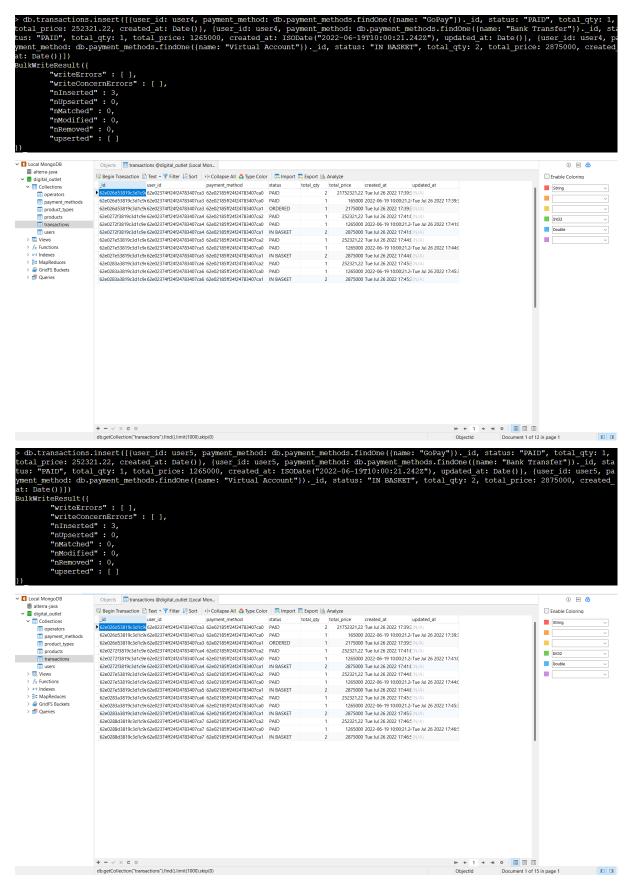
h. Insert 5 user pada tabel users



i. Insert 3 transaksi untuk masing-masing user







j. Insert 3 product di masing-masing transaksi

2. Read

a. Tampilkan nama user dengan gender M

```
db.users.find({gender: 'M'}).pretty()
      " id" : ObjectId("62e02374ff24f24783407ca3"),
      "status" : 1,
      "dob" : ISODate("1992-08-07T00:00:00Z"),
      "gender" : "M",
      "created at": "Tue Jul 26 2022 17:25:08 GMT+0000 (UTC)"
      " id" : ObjectId("62e02374ff24f24783407ca4"),
      "status" : 1,
      "dob" : ISODate("1988-02-11T00:00:00Z"),
      "gender" : "M",
      "created at" : ISODate("2022-07-12T00:00:00Z"),
      "updated at": "Tue Jul 26 2022 17:25:08 GMT+0000 (UTC)"
      " id" : ObjectId("62e02374ff24f24783407ca6"),
      "status" : 1,
      "dob" : ISODate("1992-09-22T00:00:00Z"),
      "gender" : "M",
      "created at": "Tue Jul 26 2022 17:25:08 GMT+0000 (UTC)"
```

b. Tampilkan product dengan id 3

```
> db.products.findOne({_id: ObjectId("62e01ea6ff24f24783407c9a")})
{
    "_id": ObjectId("62e01ea6ff24f24783407c9a"),
    "code": "SKU-190",
    "name": "Azure Cyber Hosting",
    "status": 1,
    "created_at": "Tue Jul 26 2022 17:04:38 GMT+0000 (UTC)",
    "product_type_id": ObjectId("62dff671e425123492fe7817"),
    "operator_id": ObjectId("62dff20ae425123492fe7813")
}
```

c. Hitung jumlah user dengan gender F

```
> db.users.find({gender: 'F'}).count()
2
```

- d. Tampilkan user dengan mengurut abjad
- e. Tampilkan 5 data product

3. Update

a. Ubah data product id 1 dengan nama: "product dummy"

```
> db.products.update({    id: ObjectId("62e01144e425123492fe7819")}, {$set: {name: "Product Dummy"}})
WriteResult({    "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.products.findOne({    id: ObjectId("62e01144e425123492fe7819")})
{
        "_id" : ObjectId("62e01144e425123492fe7819"),
        "code" : "SKU-180",
        "name" : "Product Dummy",
        "status" : 1,
        "created_at" : "Tue Jul 26 2022 16:07:32 GMT+0000 (UTC)",
        "product_type_id" : ObjectId("62dff671e425123492fe7816"),
        "operator_id" : ObjectId("62dff20ae425123492fe7811")
}
```

- b. Ubah qty = 3 pada transaction detail dengan id 1
- 4. Delete
 - a. Delete data pada tabel products dengan id 1

```
> db.products.remove({_id: ObjectId("62e01144e425123492fe7819")}, {justOne: true})
WriteResult({ "nRemoved" : 1 })
```

b. Delete data pada tabel products dengan product type id 1

Task 2 - Database: Aggregation MongoDB

2 Mata Air Keteladanan

3 Revolusi Pancasila

Gabungkan (dan tampilkan) data buku dari author id 1 dan author id 2

```
> db.books.find().sort({authorID: 1})
{ "_id": 1, "title": "Wawasan Pancasila", "authorID": 1, "publisherID": 1, "price": 71200, "stats": { "page": 324, "weight": 300 }
, "publishedAt": ISODate("2018-10-01T00:00:002"), "category": [ "social", "politics"] }
{ "_id": 2, "title": "Mata Air Keteladanan", "authorID": 1, "publisherID": 2, "price": 106250, "stats": { "page": 672, "weight": 650 }, "publishedAt": ISODate("2017-09-01T00:0002"), "category": [ "social", "politics"] }
{ "_id": 3, "title": "Revolusi Pancasila", "authorID": 1, "publisherID": 1, "price": 54400, "stats": { "page": 220, "weight": 500 }, "publishedAt": ISODate("2015-05-01T00:00:002"), "category": [ "social", "politics"] }
{ "_id": 4, "title": "Self Driving", "authorID": 2, "publisherID": 1, "price": 58650, "stats": { "page": 286, "weight": 300 }, "publishedAt": ISODate("2018-05-01T00:00:002"), "category": [ "self-development"] }
{ "_id": 5, "title": "Self Disruption", "authorID": 2, "publisherID": 2, "price": 83300, "stats": { "page": 400, "weight": 800 }, "publishedAt": ISODate("2018-05-01T00:00:002"), "category": [ "self-development"] }
```

```
2. Tampilkan daftar buku dan harga buku dari author id 1

1 db.books.find({authorID: 1}, {title: 1, price: 1, _id: 1})

Message Result

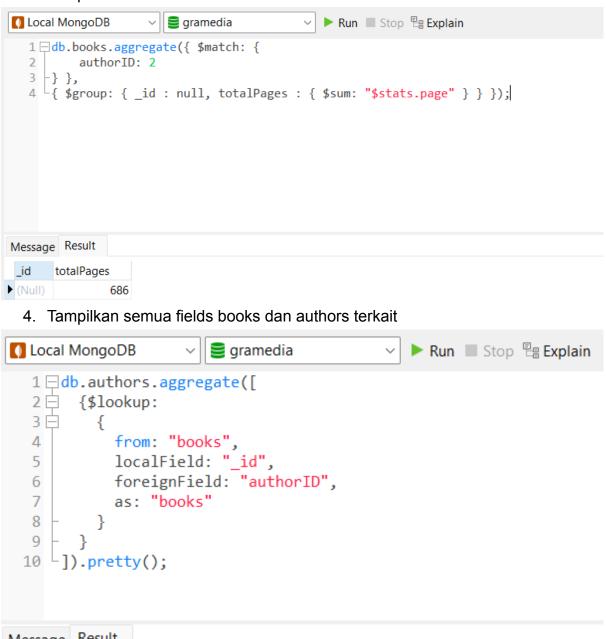
id title price

1 Wawasan Pancasila 71200
```

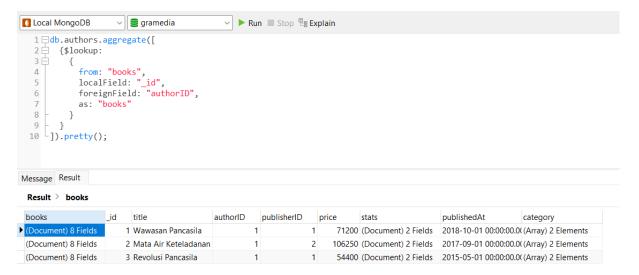
106250

54400

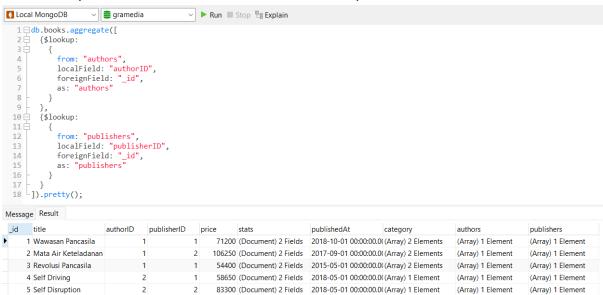
3. Tampilkan total halaman buku author id 2

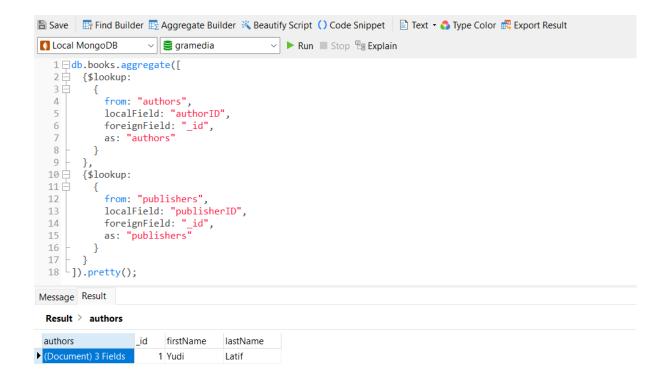


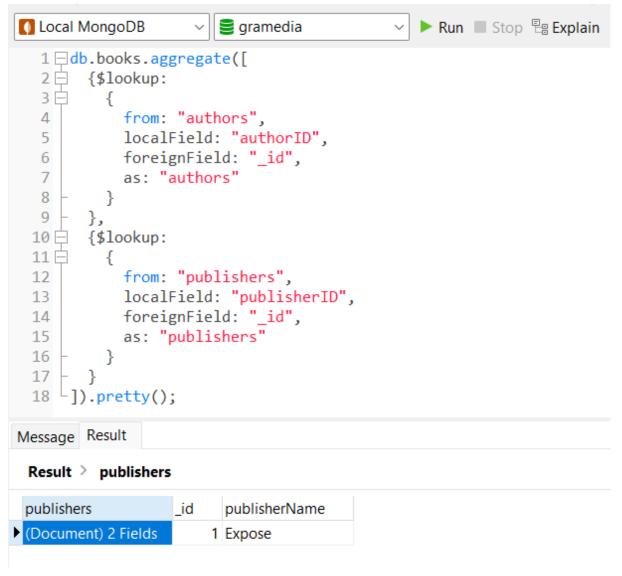
Message Result				
_	_id	firstName	lastName	books
•	1	Yudi	Latif	(Array) 3 Elements
	2	Rhenald	Kasali	(Array) 2 Elements



5. Tampilkan semua field books, authors, dan publishers terkait







6.