Crear una base de datos llamada ecommerce que contenga dos colecciones: mensajes y productos.

```
> use ecommerce
switched to db ecommerce
> db
ecommerce
> db.createCollection('products')
{ "ok" : 1 }
> db.createCollection('messages')
{ "ok" : 1 }
> show collections
messages
products
```

 Agregar 10 documentos con valores distintos a las colecciones mensajes y productos. El formato de los documentos debe estar en correspondencia con el que venimos utilizando en el entregable con base de datos MariaDB. (punto 2 incluido)

```
db.products.insertMany([
                                     'Anteojos', price : 4992, thumbnail : 'url1'},
                     {name :
                     {name : 'Botella', price : 105, thumbnail : 'url2'},
{name : 'Zapatillas', price : 3002, thumbnail : 'url3'},
                     {name : 'Billetera', price : 1231, thumbnail : 'url4'},
{name : 'Platos', price : 2379, thumbnail : 'url5'},
                     {name : 'Vaso', price : 790, thumbnail : 'url6'},
                     {name : 'Lampara', price : 3080, thumbnail : 'url7'},
                     {name : 'Espejo', price : 3465, thumbnail : 'url8'},
{name : 'Ventilador', price : 4850, thumbnail : 'url9'},
                     {name : 'Milanesa', price : 770, thumbnail : 'url10'}
             "acknowledged" : true,
             "insertedIds"
                            ObjectId("6399f0a37b0dd0e60456ad00"),
                            ObjectId("6399f0a37b0dd0e60456ad01"),
                            ObjectId("6399f0a37b0dd0e60456ad02"),
                            ObjectId("6399f0a37b0dd0e60456ad03"),
ObjectId("6399f0a37b0dd0e60456ad04"),
ObjectId("6399f0a37b0dd0e60456ad05"),
                            ObjectId("6399f0a37b0dd0e60456ad06"),
ObjectId("6399f0a37b0dd0e60456ad07"),
                             ObjectId("6399f0a37b0dd0e60456ad08"),
                            ObjectId("6399f0a37b0dd0e60456ad09")
db.messages.insertMany([
           ssages.insertMany([
    { author: 'Bauti', message: 'Buenas', date: '03/12/22 22:22:22'},
    { author: 'Lucas', message: 'Hola', date: '03/12/22 22:22:41'},
    { author: 'Lucas', message: 'Como va?', date: '03/12/22 22:23:51'},
    { author: 'Camila', message: 'Hello', date: '03/12/22 22:24:02'},
    { author: 'Camila', message: 'Todo bien, ustedes?', date: '03/12/22 22:24:27'},
    { author: 'Bauti', message: 'Todo tranquilo', date: '03/12/22 22:25:02'},
    { author: 'Lucas', message: 'Todo bien por suerte', date: '03/12/22 22:27:49'},
    { author: 'Mariano', message: 'Hay alguien?', date: '04/12/22 07:42:51'},
    { author: 'Valeria', message: 'Hola', date: '05/12/22 21:03:51'},
    { author: 'Simon', message: 'Que onda?', date: '05/12/22 21:05:11'},
    ])
             "acknowledged" : true,
             "insertedIds" :
                            ObjectId("6399f0b97b0dd0e60456ad0a"),
                            ObjectId("6399f0b97b0dd0e60456ad0b"),
                            ObjectId("6399f0b97b0dd0e60456ad0c"),
                            ObjectId("6399f0b97b0dd0e60456ad0d"),
                            ObjectId("639940b97b0ddde60456ad0d"),
ObjectId("6399f0b97b0ddde60456ad0e"),
ObjectId("6399f0b97b0ddde60456ad0f"),
ObjectId("6399f0b97b0ddde60456ad10"),
                            ObjectId("6399f0b97b0dd0e60456ad11"),
ObjectId("6399f0b97b0dd0e60456ad12"),
                            ObjectId("6399f0b97b0dd0e60456ad13")
```

3. Listar todos los documentos en cada colección.

4. Mostrar la cantidad de documentos almacenados en cada una de ellas.

```
> db.products.estimatedDocumentCount()10> db.messages.estimatedDocumentCount()10
```

- Realizar un CRUD sobre la colección de productos:
- a) Agregar un producto más en la colección de productos

```
> db.products.insertOne({name: 'Silla', price: '4999', thumbnail: 'url11'})
{
         "acknowledged" : true,
         "insertedId" : ObjectId("6399f3803e8eba197c3ffc69")
}
```

- b) Realizar una consulta por nombre de producto específico:
- 1) Listar los productos con precio menor a 1000 pesos

```
> db.products.find({ price: { $1t: 1000}})
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad01"), "name" : "Botella", "price" : 105, "thumbnail" : "url2" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad05"), "name" : "Vaso", "price" : 790, "thumbnail" : "url6" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad09"), "name" : "Milanesa", "price" : 770, "thumbnail" : "url10" }
```

2) Listar los productos con precio entre los 1000 a 3000 pesos.

```
> db.products.find({$and: [{price: {$gte: 1000}}, {price: {$lte: 3000}}]})
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad03"), "name" : "Billetera", "price" : 1231, "thumbnail" : "url4" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad04"), "name" : "Platos", "price" : 2379, "thumbnail" : "url5" }
```

Listar los productos con precio mayor a 3000 pesos

```
> db.products.find({ price: { $gt: 3000}})
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad00"), "name" : "Anteojos", "price" : 4992, "thumbnail" : "url1" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad02"), "name" : "Zapatillas", "price" : 3002, "thumbnail" : "url3" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad06"), "name" : "Lampara", "price" : 3080, "thumbnail" : "url7" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad07"), "name" : "Espejo", "price" : 3465, "thumbnail" : "url8" }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Ventilador", "price" : 4850, "thumbnail" : "url9" }
```

4) Realizar una consulta que traiga sólo el nombre del tercer producto más barato.

```
> db.products.find().skip(2).limit(1).sort({price: 1})
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad05"), "name" : "Vaso", "price" : 790, "thumbnail" : "url6" }
>
```

c) Hacer una actualización sobre todos los productos, agregando el campo stock a todos ellos con un valor de 100.

```
> db.products.updateMany({}, {$set: {stock: 100}})
{ "acknowledged" : true, "matchedCount" : 11, "modifiedCount" : 11 }
> db.products.find()
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad00"), "name" : "Anteojos", "price" : 4992, "thumbnail" : "url1", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad01"), "name" : "Botella", "price" : 105, "thumbnail" : "url2", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad02"), "name" : "Zapatillas", "price" : 3002, "thumbnail" : "url3", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad03"), "name" : "Billetera", "price" : 1231, "thumbnail" : "url4", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad04"), "name" : "Platos", "price" : 2379, "thumbnail" : "url5", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad05"), "name" : "Vaso", "price" : 790, "thumbnail" : "url6", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad06"), "name" : "Lampara", "price" : 3080, "thumbnail" : "url7", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Espejo", "price" : 3465, "thumbnail" : "url8", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Ventilador", "price" : 4850, "thumbnail" : "url9", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Ventilador", "price" : 770, "thumbnail" : "url10", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Silla", "price" : 770, "thumbnail" : "url10", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad09"), "name" : "Silla", "price" : 770, "thumbnail" : "url11", "stock" : 100 }
```

d) Cambiar el stock a cero de los productos con precios mayores a 4000 pesos.

```
> db.products.updateMany({price: {$gt: 4000}}, {$set: {stock: 0}})
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
> db.products.find()
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad00"), "name" : "Anteojos", "price" : 4992, "thumbnail" : "url1", "stock" : 0 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad01"), "name" : "Botella", "price" : 105, "thumbnail" : "url2", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad02"), "name" : "Zapatillas", "price" : 3002, "thumbnail" : "url3", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad03"), "name" : "Billetera", "price" : 1231, "thumbnail" : "url4", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad04"), "name" : "Platos", "price" : 2379, "thumbnail" : "url5", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad05"), "name" : "Vaso", "price" : 790, "thumbnail" : "url6", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad06"), "name" : "Lampara", "price" : 3080, "thumbnail" : "url7", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Espejo", "price" : 3465, "thumbnail" : "url8", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Waso", "price" : 4850, "thumbnail" : "url8", "stock" : 0 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Waso", "price" : 4850, "thumbnail" : "url10", "stock" : 0 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Waso", "price" : 770, "thumbnail" : "url10", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Silla", "price" : "4999", "thumbnail" : "url11", "stock" : 100 }
```

(No se porque el del precio 4999 no cambio el stock)

e) Borrar los productos con precio menor a 1000 pesos

```
> db.products.deleteMany({price: {$1t: 1000}})
{ "acknowledged" : true, "deletedCount" : 3 }
> db.products.find()
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad00"), "name" : "Anteojos", "price" : 4992, "thumbnail" : "url1", "stock" : 0 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad02"), "name" : "Zapatillas", "price" : 3002, "thumbnail" : "url3", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad03"), "name" : "Billetera", "price" : 1231, "thumbnail" : "url4", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad04"), "name" : "Platos", "price" : 2379, "thumbnail" : "url5", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad06"), "name" : "Lampara", "price" : 3080, "thumbnail" : "url7", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Espejo", "price" : 3465, "thumbnail" : "url8", "stock" : 100 }
{ "_id" : ObjectId("6399f0a37b0dd0e60456ad08"), "name" : "Ventilador", "price" : 4850, "thumbnail" : "url9", "stock" : 0 }
{ "_id" : ObjectId("6399f3803e8eba197c3ffc69"), "name" : "Silla", "price" : "4999", "thumbnail" : "url1", "stock" : 100 }
```

6) Crear un usuario 'pepe' clave: 'asd456' que sólo pueda leer la base de datos ecommerce.

Verificar que pepe no pueda cambiar la información. (opcional)