

MongoDB DragsManagmentSystem

Database name:-DragManagementSystem

Collection name:-cutomer,drugs

1)create cutomer collection.

Query:-

```
> use DragManagementSystem
< 'switched to db DragManagementSystem'
> db.customer.insertMany([
  {
    "customer_name": "Merv",
    "customer_mobile": "4347101473",
    "customer_address": "2nd Floor",
    "customer_email": "mvanderhoven0@mitbeian.gov.cn",
    "total_diseases": 9
  }, {
    "customer_name": "Hortense",
    "customer_mobile": "0541243101",
    "customer_address": "PO Box 34209",
    "customer_email": "hnelson1@i2i.jp",
    "total_diseases": 5
  }, {
```

O/P:- total 25 records created.

```
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6438f32aafb0b3b3cf5112c7"),
    '1': ObjectId("6438f32aafb0b3b3cf5112c8"),
    '2': ObjectId("6438f32aafb0b3b3cf5112c9"),
    '3': ObjectId("6438f32aafb0b3b3cf5112ca"),
    '4': ObjectId("6438f32aafb0b3b3cf5112cb"),
    '5': ObjectId("6438f32aafb0b3b3cf5112cc"),
    '6': ObjectId("6438f32aafb0b3b3cf5112cd"),
    '7': ObjectId("6438f32aafb0b3b3cf5112ce"),
    '8': ObjectId("6438f32aafb0b3b3cf5112cf"),
    '9': ObjectId("6438f32aafb0b3b3cf5112d0"),
    '10': ObjectId("6438f32aafb0b3b3cf5112d1"),
    '11': ObjectId("6438f32aafb0b3b3cf5112d2"),
```

2) create drugs collection.

Query:-

```
> db.drugs.insertMany([{
  "drug_id": 30,
  "drug_name": "Ampicillin",
  "drug_amount": 410,
  "drug_mfgdate": "8/15/2022"
}, {
  "drug_id": 44,
  "drug_name": "clorazepate dipotassium",
  "drug_amount": 621,
  "drug_mfgdate": "7/21/2022"
}, {
  "drug_id": 46,
```

O/P:-total 50 records created.

```
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6438f6b7afb0b3b3cf5112e0"),
    '1': ObjectId("6438f6b7afb0b3b3cf5112e1"),
    '2': ObjectId("6438f6b7afb0b3b3cf5112e2"),
    '3': ObjectId("6438f6b7afb0b3b3cf5112e3"),
    '4': ObjectId("6438f6b7afb0b3b3cf5112e4"),
    '5': ObjectId("6438f6b7afb0b3b3cf5112e5"),
    '6': ObjectId("6438f6b7afb0b3b3cf5112e6"),
    '7': ObjectId("6438f6b7afb0b3b3cf5112e7"),
    '8': ObjectId("6438f6b7afb0b3b3cf5112e8"),
    '9': ObjectId("6438f6b7afb0b3b3cf5112e9"),
    '10': ObjectId("6438f6b7afb0b3b3cf5112ea"),
    '11': ObjectId("6438f6b7afb0b3b3cf5112eb")
  }
}
```

3) match all records have a total_diseases=3 in customer collection.

Query:-db.customer.aggregate([

```
{
  $match:{total_diseases:3}
},
```

],)

O/P:-

```

> db.customer.aggregate([
  {
    $match:{total_diseases:3}
  },
],)
< {
  _id: ObjectId("6438f32aafb0b3b3cf5112d4"),
  customer_name: 'Barry',
  customer_mobile: '9109249419',
  customer_address: 'Apt 440',
  customer_email: 'bmclernond@mail.ru',
  total_diseases: 3
}
{
  _id: ObjectId("6438f32aafb0b3b3cf5112de"),
  customer_name: 'Dana',
  customer_mobile: '6109908886',
  customer_address: 'Room 245',
  customer_email: 'ddurrandn@yellowbook.com',
  total_diseases: 3
}
DragManagementSystem>

```

4)match all record have a drug_name=Ampicillin in drugs collection.

Query:-db.drugs.aggregate([

```

{
  $match:{drug_name:'Ampicillin'}
},

```

],)

O/P:-

```
> db.drugs.aggregate([
  {
    $match:{drug_name:'Ampicillin'}
  },
],)
< {
  _id: ObjectId("6438f6b7afb0b3b3cf5112e0"),
  drug_id: 30,
  drug_name: 'Ampicillin',
  drug_amount: 410,
  drug_mfgdate: '8/15/2022'
}
DrugManagementSystem>
```

5) match all records have total_diseases=3, and create group for _id:\$total_diseases and according show ROOT objects all details in details array.

Query:-

```
db.customer.aggregate([
  {
    $match:{total_diseases:3}
  },
  {
    $group :{_id:'$total_diseases',details:{$push:'$$ROOT'}}
  }
])
```

],)

O/P:-

```
< {
  _id: 3,
  details: [
    {
      _id: ObjectId("6438f32aafb0b3b3cf5112d4"),
      customer_name: 'Barry',
      customer_mobile: '9109249419',
      customer_address: 'Apt 440',
      customer_email: 'bmclernond@mail.ru',
      total_diseases: 3
    },
    {
      _id: ObjectId("6438f32aafb0b3b3cf5112de"),
      customer_name: 'Dana',
      customer_mobile: '6109908886',
      customer_address: 'Room 245',
      customer_email: 'ddurrandn@yellowbook.com',
      total_diseases: 3
    }
  ]
}
```

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6)match all records have total_diseases=3 AND customer_name=Barry,then create group for _id:\$total_diseases and according show ROOT objects all details in details array.

Query:-

```
db.customer.aggregate([
```

```
{
```

```

    $match:{$and: [{total_diseases:3},{customer_name:'Barry'}}}
  },
  {
    $group :{_id:'$total_diseases',details:{$push:'$$ROOT'}}
  }
],)

```

O/P:-

```

db.customer.aggregate([
  {
    $match:{$and: [{total_diseases:3},{customer_name:'Barry'}}}
  },
  {
    $group :{_id:'$total_diseases',details:{$push:'$$ROOT'}}
  }
],)
< {
  _id: 3,
  details: [
    {
      _id: ObjectId("6438f32aafb0b3b3cf5112d4"),
      customer_name: 'Barry',
      customer_mobile: '9109249419',
      customer_address: 'Apt 440',
      customer_email: 'bmclernond@mail.ru',
      total_diseases: 3
    }
  ]
}
DragManagementSystem>

```

7)match in customer collection have a total_diseases=5 and create group and show only name not all records.

Query:-db.customer.aggregate([

{

 \$match:{total_diseases:5}

},

{

 \$group :{_id:'\$total_diseases',names:{\$push:'\$customer_name'}}

}

],)

O/P:-


```

> db.customer.aggregate([
  {
    $match:{total_diseases:5}
  },
  {
    $group :{_id:'$total_diseases',names:{$push:'$customer_name'}}
  }
],)
< {
  _id: 5,
  names: [
    'Hortense',
    'Silvanus',
    'Dawn',
    'Burt',
    'Ingeberg'
  ]
}
DragManagementSystem>

```

8)

Query:-db.customer.aggregate([

```

{ $lookup:
{
  from: "drugs",
  localField: "customer_name",
  foreignField: "drug_name",
  as: "drugs"
}
}
])

```

```
    }  
  }  
])
```

O/P:-

```
  _id: ObjectId("6438f32aafb0b3b3cf5112c7"),  
  customer_name: 'Merv',  
  customer_mobile: '4347101473',  
  customer_address: '2nd Floor',  
  customer_email: 'mvanderhoven0@mitbeian.gov.cn',  
  total_diseases: 9,  
  drugs: []  
}  
{  
  _id: ObjectId("6438f32aafb0b3b3cf5112c8"),  
  customer_name: 'Hortense',  
  customer_mobile: '0541243101',  
  customer_address: 'PO Box 34209',  
  customer_email: 'hnelson1@i2i.jp',  
  total_diseases: 5,
```

9)

Query:-db.drugs.insertOne({drugname:'Central Nervous System
Depressants',drugid:[ObjectId("6438f32aafb0b3b3cf5112c7")],})

O/P:-

```
> db.drugs.insertOne({drugname:'Central Nervous System Depressants',drugid:[ObjectId("6438f32aafb0b3b3cf5112c7")],})
< {
  acknowledged: true,
  insertedId: ObjectId("64392745afb0b3b3cf511312")
}
```

10)

Query:-db.drugs.aggregate([

{ \$lookup:

{

from: "customer",

localField: "drugid",

foreignField: "_id",

as: "customer"

}

}

])

O/P:-

```

< {
  _id: ObjectId("64392745afb0b3b3cf511312"),
  drugname: 'Central Nervous System Depressants',
  drugid: [
    ObjectId("6438f32aafb0b3b3cf5112c7")
  ],
  customer: [
    {
      _id: ObjectId("6438f32aafb0b3b3cf5112c7"),
      customer_name: 'Merv',
      customer_mobile: '4347101473',
      customer_address: '2nd Floor',
      customer_email: 'mvanderhoven0@miitbeian.gov.cn',
      total_diseases: 9
    }
  ]
}

```

11)

Query:-db.drugs.insertMany([

```

{
  drugname: 'SEO',
  drugid: [
    ObjectId("6438f32aafb0b3b3cf5112c7"),
    ObjectId("6438f32aafb0b3b3cf5112ca")
  ]
}

```

11)

O/P:-

```
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64392b5bafb0b3b3cf511313")
  }
}
> db.drugs.find().pretty()
< {
  _id: ObjectId("64392745afb0b3b3cf511312"),
  drugname: 'Central Nervous System Depressants',
  drugid: [
    ObjectId("6438f32aafb0b3b3cf5112c7")
  ]
}
{
  _id: ObjectId("64392b5bafb0b3b3cf511313"),
  drugname: 'SEO',
  drugid: [
    ObjectId("6438f32aafb0b3b3cf5112c7"),
    ObjectId("6438f32aafb0b3b3cf5112ca")
  ]
}
```

12)

Query:-db.drugs.aggregate([

{

\$lookup: {

```
    from: "customer",
    localField: "drugid",
    foreignField: "_id",
    as: "customer"
  }
},
{
  $match: {
    "customer.customer_name": "Lissie"
  }
},
{
  $project: {
    "customer.customer_name": 1
  }
}
])
```

O/P:-

```
< {
  _id: ObjectId("64392b5bafb0b3b3cf511313"),
  customer: [
    {
      customer_name: 'Merv'
    },
    {
      customer_name: 'Lissie'
    }
  ]
}
```

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13)

Query:-db.customer.aggregate([

```
{
  $lookup: {
    from: "drugs",
    localField: "_id",
    foreignField: "drugid",
    as: "drugs"
  }
},
{
  $match: {
    "drugs.drugname": "SEO"
  }
}
```

```
}  
,  
{  
  $project: {  
    "drugs.drugname": 1  
  }  
}  
])
```

O/P:-


```
< {
  _id: ObjectId("6438f32aafb0b3b3cf5112c7"),
  drugs: [
    {
      drugname: 'Central Nervous System Depressants'
    },
    {
      drugname: 'SE0'
    }
  ]
}
{
  _id: ObjectId("6438f32aafb0b3b3cf5112ca"),
  drugs: [
    {
      drugname: 'SE0'
    }
  ]
}
```