Title: Create and Read

Aim: To apply relational operators in find() command and filter the documents

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Q1) Create a database with name myDB and will create a collection with name orders.

- a) retrieve all documents from the collection.
- b) fetch only Customer and Email field.
- c) fetch the order where PaymentMode is "Card".
- d) fetch the order where Country is "India" with customer and address key value pairs alone
- e) filter the documents where "paper" were also ordered
- f) fetch the documents where OrderTotal is greater than 800.
- g) fetch the documents wher OrderTotal is greater than or equal to 800.
- h) fetch the documents where OrderTotal is less than 800.

Switching DB, Creating Collection and Insertion

a) retrieve all documents from the collection.

Syntax: db.Orders.find()

```
myDB> db.Orders.find()
{
    id: ObjectId("63e316282a1007b2ae7ee450"),
    Customer: 'Krish Agarwal',
    Address: { city: 'Ahmedabad', Country: 'India' },
    PaymentMode: 'Card',
    Email: 'krishagmail.com',
    OrderItems: {
        { ItemName: 'notebook', Price: 150, Qty: 10 },
        { ItemName: 'paper', Price: 10, Qty: 5 },
        { ItemName: 'journal', Price: 200, Qty: 2 },
        { ItemName: 'postcard', Price: 10, 'Qty:': 500 }
    }
},

did: ObjectId("63e317602a1007b2ae7ee451"),
    Customer: 'Shreyansh P',
    Address: { City: 'California', Country: 'USA' },
    PaymentMode: 'Card',
    Email: 'shreyansh.p@gmail.com',
    OrderTotal: 700,
    OrderTotal: 700,
    OrderTotal: 700,
        { ItemName: 'pen', Price: 100, Qty: 10 },
        { ItemName: 'pen', Price: 500, 'Qty:': 500 }
},

did: ObjectId("63e317e72a1007b2ae7ee452"),
    Customer: 'Gaurika C',
        Address: { city: 'Gurgaon', Country: 'India' },
    PaymentMode: 'Cash',
    Fmail: 'daurika C',
        Address: { city: 'Gurgaon', Country: 'India' },
    PaymentMode: 'Cash',
    Fmail: 'daurika C',
        Address: { city: 'Gurgaon', Country: 'India' },
        PaymentMode: 'Cash',
        Fmail: 'daurika C',
        Address: { city: 'Gurgaon', Country: 'India' },
        PaymentMode: 'Cash',
        Fmail: 'daurika C',
        Address: { city: 'Gurgaon', Country: 'India' },
        PaymentMode: 'Cash',
        Fmail: 'daurika C',
        Address: { city: 'daurika C',
```

b) fetch only Customer and Email field.

Syntax: db.Orders.find({}, {"Customer": 1, "Email": 1})

c) fetch the order where PaymentMode is "Card".

Syntax: db.Orders.find({"PaymentMode": "Card"})

d) fetch the order where Country is "India" with customer and address key value pairs alone.

Syntax: db.Orders.find({"Address.Country":"India"}, {"Customer":1, "Address":1})

e) filter the documents where "paper" were also ordered.

Syntax: db.Orders.find({"Address.Country":"India", "OrderItems.ItemName":"paper"}, {"Customer":1, "Address":1})

f) fetch the documents where OrderTotal is greater than 800.

Syntax: db.Orders.find({"OrderTotal": {"\$gt":800}})

g) fetch the documents wher OrderTotal is greater than or equal to 800.

Syntax: db.Orders.find({"OrderTotal": {"\$gte":800}})

h) fetch the documents where OrderTotal is less than 800.

Syntax: db.Orders.find({"OrderTotal": {"\$lt":800}})