Question 1

use fooddelievery

db.createCollection("Customers")

db.createCollection("Hotels")

db.createCollection("Delieverypartner")

db.Customers.insertMany([{cid:1,cname:"Aditya",location:"Pune"},{cid:2,cname:"Radhika",location:"Nashik"},{cid:3,cname:"Rohini",location:"Mumbai"},{cid:4,cname:"Suraj",location:"Parabhani"},{cid:5,cname:"Divya",location:"Jalgaon"}])

db.Hotels.insertMany([{hid:1,hname:"Brahma Garden",hloc:"Sinhagad Road"},{hid:2,hname:"Sumadhu",hloc:"Bibwewadi"},{hid:3,hname:"Govind",hloc:"Vadgaon"},{hid:4,hname:"Shivam",hloc:"Dhayari"},{hid:5,hname:"Girija",hloc:"Sadashiv Peth"}])

db.Delieverypartner.insertMany([{dpid:1,dpname:"Aakash",joining:"31/05/2024",location :"Sinhagad Road"},{dpid:2,dpname:"Saumitra",joining:"31/05/2024",location:"Bibwewadi"},{dpid:3,dpname:"Madhavi",joining:"22/04/2020",location:"Dhankawdi"},{dpid:4,dpname:"Gandhari",joining:"22/01/2021",location:"Dhankawdi"},{dpid:5,dpname:"Uma",joining:"12/09/2023",location:"Bibwewadi"}]);

//1. Delete any single record for delievery partner who left the service on 31/05/2024

db.runCommand(

{

delete:"Delieverypartner",

deletes:[{

q:{joining:"31/05/2024"},

limit :1

}]

})

//2. Fetch the records for customers whose location is pune.

db.runCommand(

{

find :"Customers",

filter:{location:"Pune"},

projection:{cname:1},

sort:{cname:1},

})

// 3. Modify hotel location of “Brahma Garden” hotel to Bibwewadi .

db.runCommand(

{

findAndModify :"Hotels",

query:{hname:"Govind"},

update:{location:"Bibwewadi"},

new:1

})

db.Hotels.find({})

// 4. Find delievery partners who are located in area “Dhankawdi”.

db.runCommand(

{

find:"Delieverypartner",

filter:{location:"Dhankawdi"},

})

Question 2:

// Create Election System with Collections Voters, Candidates, Party. Insert 5 records to each collection and perform following queries.//

use Election

db.createCollection("Voters");

db.createCollection("Candidates")

db.createCollection("Party")

db.Voters.insertMany([{vid:1,vname:'Mr.Joshi',location:'Sinhagad Road'},{vid:2,vname:'Mrs. Patwardhan',location:'Kasaba Peth'},{vid:3,vname:'Ms.Kanade',location:'Parvati'},{vid:4,vname:'Ms.Suryawanshi',location:'Kasaba Peth'},{vid:5,vname:'Ms. Chinchanikar',location:'Sinhagad Road'}])

db.Candidates.insertMany([{cid:1,cname:'Mr. Mohol',party:'ABC'},{cid:2,cname:'Mrs.Gosavi',party:'ABC'},{cid:3,cname:'Mrs. Nagpure',party:'PQR'},{cid:4,cname:'Mr.Pawar',party:'PQR'},{cid:5,cname:'Ms. Supriya',party:'LMN'}])

db.Party.insertMany([{pid:1, party:'ABC'},{pid:2, party:'PQR'},{pid:3,party:'LMN'},{pid:4,party:'XYZ'},{pid:5,party:'DEF'}])

//Q1. Delete all candidates from party ABC.

db.runCommand({

delete:'Candidates',

deletes:[{

q:{party:'ABC'},

limit:0

}],

comment:'Candidates from party ABC will be deleted'

})

db.Candidates.find({})

// Q2.Skip first two voters from location Kasaba Peth

db.runCommand({

find:'Voters',

filter:{location:'Kasaba Peth'},

skip:1

})

// Q3. Remove the record of voter “Mr. Joshi”.

db.runCommand(

{

delete:'Voters',

deletes:[{

q:{vname:'Mr.Joshi'},

limit:0

}],

})

db.Voters.find({})

// Q4. Find voters from location “Parvati” and sort by name

db.runCommand({

find:'Voters',

filter:{location:'Parvati'},

sort:{vname:1}

)

Question 3 :

// Create a Online Payment System. Collections as Customers, Banks, Paymenthistory(Join of Customers and Banks). Insert 5 records in each collections. And perform following queries.

use onlinepayment

db.createCollection("Customers")

db.createCollection("Bank")

db.createCollection("Paymenthistory")

db.Customers.insertMany([{cid:101,cname:'Mr.Patwardhan'},{cid:102,cname:'Mr.Ranade'},{cid:103,cname:'Mr.Joshi'},{cid:104,cname:'Mr.Sathye'},{cid:105,cname:'Mr. Limaye'}])

db.Bank.insertMany([{bid:101,bname:'Union'},{bid:102,bname:'SBI'},{bid:103,bname:'Bank of Baroda'},{bid:104,bname:'TJSB'},{bid:105,bname:'Cosmos'}])

// Joining table bank and customer into Paymenthist view/table.

db.createView( "Paymenthist1", "Bank", [

{

$lookup:

{

from: "Customers",

localField: "bid",

foreignField: "cid",

as: "Payment"

}

},

{

$project:

{

cid:1,

cname:1,

bid:1,

bname:1

}

}

] )

db.Paymenthist1.find({})

// Q1. Find paymenthistories done by customer id 101.

db.runCommand(

{

find:"Paymenthist1",

filter:{cid:101},

projection:{cname:1,bid:1,bname:1},

batchSize:1

})

// Q2.Update the name of bank Union to Bank Vyom.

db.runCommand(

{

update:"Bank",

updates:[{

q: {bname:"Union"},

u:{bname:"Vyom"}

}]

})

db.Bank.find({})

// Q3. Delete Customer id 102.

db.runCommand(

{

delete:"Customers",

deletes:[{

q:{cid:102},

limit:0

}]

})

db.Customers.find({})

// Q4.Insert a customer named “Mr. Joshi” into Customer database

db.runCommand(

{

insert:"Customers",

documents:[{cid:102,cname:'Mr. Joshi'}]

})

db.Customers.find({})