\* Q1. Consider College Database.\*/

use College

db.createCollection("Faculty");

db.createCollection("Students");

db.createCollection("Administration");

db.createCollection("Accounts");

db.createCollection("NonTeaching");

/\* A) Insert 5 records in all collections Faculty, Students, Administration, Accounts, Non teaching Staff.\*/

db.Faculty.insertMany([{Tid:101,Tname:'Prof.Chaitrali',mobno:9922324343},{Tid:102,Tname:'Mr. Joshi',mobno:9923121212},{Tid: 103,Tname:'Mr. Patil',mobno:7878557787},{Tid:104,Tname:'Prof. Shubhangi',mobno:9229223434},{Tid : 104, Tname:'Mrs. Kaushik',mobno:9922655566}]);

db.Students.insertMany([{sid:101,sname:'Megha',phoneno:9922334455},{sid:102,sname:'Tejashree',phoneno:9922334455},{sid:103,sname:'Deepa',phoneno:9912345678},{sid:104,sname:'Devansh',phoneno:9229228787},{sid:105,sname:'Durvesh',phoneno:9339334567}]);

// Like this insert into all tables

/\* B) Display all the records .\*/

db.Faculty.find({});

db.Students.find({});

//Like this display all tables

/\* C) Change the phone number of student having id 101.\*/

db.Students.updateOne({sid:101},{$set:{phoneno:9422369381}});

// Check the records if updated or not

db.Students.find({sid:101});

/\* D) Delete the record from faculty collection where faculty name is “Mr. Joshi”.\*/

// See all the faculty records

db.Faculty.find({});

db.Faculty.remove({Tname:"Mr. Joshi"});

// This has removed the record for faculty Mr. Joshi

// Check the Faculty Collection again

db.Faculty.find({});

/\*=================================================================================================\*/

// Q2. Consider Medicalshop database.

use Medicalshop

db.createCollection("Items");

db.createCollection("Orders");

db.createCollection("Sales");

// A) ) Insert two record in all collections like Items, Orders, and Sales.

db.Items.insertMany([{Itemno:1,Itemname:'Moov',price:50},{Itemno:2,Itemname:'Iodex',price:50}]);

db.Orders.insertMany([{Orderid:101,date:'31/05/2024',itemno:1,quantity:5},{Orderid:102,date:'01/06/2024',itemno:2,quantity:10}]);

db.Sales.insertMany([{Orderid:101,delieverycost:50,delieverytime:'2:05'},{Orderid:102,delieverycost:100,delieverytime:'12:00'}]);

// Display all inserted records

db.Items.find({});

db.Orders.find({});

db.Sales.find({});

// B) Display the orders dated ’31-05-2024’.

db.Orders.find({date:'31/05/2024'});

// C)Change the price to 100 Rs. to items having price 50

//Check the price of all items:

db.Items.find({});

// Update the price

db.Items.updateMany({price:50},{$set:{price:100}},{multi:true});

// Check the Items collection again

db.Items.find({});

//D) Delete all record from Sales

// First check the Sales collection

db.Sales.find({});

// Now remove all the records

db.Sales.remove({});

// Check the Sales collection again

db.Sales.find({});

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// Consider Bank Database

use Bank

db.createCollection("Customers");

db.createCollection("Branch");

db.createCollection("Account");

// A) Insert two records into all the collections like Customers, Branches and Accounts.

db.Customers.insertMany([{cregno:1,cname:'Chaitrali',address:'Shivajinagar'},{cregno:2,cname:'Anushka',address:'Sinhagad Road'}]);

db.Branch.insertMany([{branchid:1,branchname:'J.M.Road',location:'J.M.Road'},{branchid:2,branchname:'Bibwewadi',location:'Upper Indira Nagar'}]);

db.Account.insertMany([{accountno:55221122,cregno:1,branch:'Shivajinagar'},{accountno:54542323,cregno:102,branch:'Swargate'}]);

// Check whether records are inserted using db.find() method

// B) Display all customers from shivajinagar and J.M Road

db.Customers.find({"address":{"$in":['Shivajinagar','J.M.Road']}});

// C) Update account number to 50754532 of customer id=1.

db.Account.update({cregno:1},{$set:{accountno:50754532}});

// Check whether the record updated or not using find method

db.Account.find({});

// D) Delete Branch having name ‘J.M.Road’.

db.Branch.remove({branchname:'J.M.Road'});

// Check whether branch is removed using find method

db.Branch.find({});

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// Consider database Railwayreservation

use Railwayreservation

db.createCollection("Passanger");

db.createCollection("Train");

db.createCollection("Booking");

//A) Insert four records into all the collections like Passenger, Train and Booking.

db.Passanger.insertMany([{pid:100,pname:'Subhash',email:'sb@gmail.com'},{pid:101,pname:'Durva',email:'durva@gmail.com'},{pid:102,pname:'Gauri',email:'gaurik@gmail.com'},{pid:103,pname:'Ganesh',email:'ganesh@gmail.com'}]);

db.Train.insertMany([{tid:1,tname:'Deccan Express',departuretime:'12:05'},{tid:2,tname:'Sinhagad Express',departuretime:'2:30'},{tid:3,tname:'Indrayani Express',departuretime:'4:30'},{tid:4,tname:'Duranto',departuretime:'5:30'}]);

db.Booking.insertMany([{bid:1,pid:100,status:'Booked'},{bid:2,pid:101,status:'Incomplete'},{bid:3,pid:102,status:'Booked'},{bid:4,pid:103,status:'Booked'}]);

//B) Display departure time of train ‘Deccan Express’.

db.Train.find({tname:'Deccan Express'},{tid:0,tname:0});

// here tid and tname are exculded in result

//C) Update status of booking to Cancel for Passenger id: 100 and 102.

// Check all the records of collection Booking

db.Booking.find({});

// Now update

db.Booking.updateMany({"pid":{"$in":[100,102]}},{$set:{status:'Cancel'}});

// This will update the status where pid is 101 and 102

// Check Booking collection whether booking is updated or not

db.Booking.find({});

//D) Delete details of Passenger named ‘Subhash’.

// Check all the records from Passanger collection using find method and reomve afterwords

db.Passanger.remove({pname:'Subhash'});

// Check again Passanger record for subhash has deleted or not

db.Passanger.find({});

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// Consider E-Commrece System

use E-Commerce

db.createCollection("Product");

db.createCollection("Customers");

db.createCollection("Transaction");

db.createCollection("Cart");

// A) Insert four records into all the collections like Product, Customer, Transaction, Cart.

db.Product.insertMany([{pid:1,pname:'Toothpaste',price:200},{pid:2,pname:'Laptop',price:50000},{pid:3,pname:'Smartphone',price:50000},{pid:4,pname:'Milk',price:50}]);

db.Customers.insertMany([{cid:1,cname:'Vidya'},{cid:2,cname:'Mangala'},{cid:3,cname:'Prasad'},{cid:4,cname:'Sharad'}]);

db.Transaction.insertMany([{cid:1,pid:1,quantity:2,price:800},{cid:2,pid:2,quantity:1,price:50000},{cid:3,pid:3,quantity:1,price:50000},{cid:4,pid:4,quantity:2,price:100}]);

db.Cart.insertMany([{cid:1,pid:1},{cid:2,pid:2},{cid:3,pid:3},{cid:4,pid:4}]);

// Check whether successfully inserted or not using find method

// B) Display products having price is greater than or equal to 50000

db.Product.find({"price":{"$gte":50000}});

// C) Update the price for all products while transaction which have price is greater than to 40000.

db.Transaction.updateMany({"price":{"$gt":40000}},{$set:{price:30000}});

// Check whether price is updated or not using find query.

// D) Delete the cart of customer id :4

// Check the cart collection then remove

db.Cart.remove({cid:1});

// Check the cart collection again if cart of cid:1 is removed or not with find command