**CO4**

**1.Create a database named Employee. Create a collection named empDetails**

**You can use any of the fields Name, Age ,e\_mail, phone,salary**

1. **Insert 5 documents in it using the different insert() methods and**

> db.empdetails.insert({id:1,"name":"Bhuvan", age:32,"e-mail":"mohan@gmail.com",salary:6000});

WriteResult({ "nInserted" : 1 })

> db.empdetails.insert({id:2,"name":"Raju", age:22,"e-mail":"raju@gmail.com",salary:5500});

WriteResult({ "nInserted" : 1 })

> db.empdetails.insert({id:3,"name":"Ram", age:30,"e-mail":"ram@gmail.com",salary:14500});

WriteResult({ "nInserted" : 1 })

> db.empdetails.insert({id:4,"name":"Manu", age:36,"e-mail":"manu@gmail.com",salary:15000});

WriteResult({ "nInserted" : 1 })

> db.empdetails.insert({id:5,"name":"Harsha", age:22,"e-mail":"harsha@gmail.com",salary:30000});

WriteResult({ "nInserted" : 1 })

1. Find the details of employee whose name is mohan

> db.empdetails.find({"name":"Mohan"});

{ "\_id" : ObjectId("629b286c5a9537c7809bea2e"), "id" : 7, "name" : "Mohan", "age" : 34, "e-mail" : "mohan@gmail.com", "salary" : 25000 }

1. Fetch the documents of employees whose salary >=5000

> db.empdetails.find({salary:{$gte: 5000}});

{ "\_id" : ObjectId("629b26ac5a9537c7809bea27"), "id" : 1, "name" : "Bhuvan", "age" : 32, "e-mail" : "mohan@gmail.com", "salary" : 6000 }

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b26f55a9537c7809bea29"), "id" : 3, "name" : "Ram", "age" : 30, "e-mail" : "ram@gmail.com", "salary" : 14500 }

{ "\_id" : ObjectId("629b277f5a9537c7809bea2a"), "id" : 4, "name" : "Manu", "age" : 36, "e-mail" : "manu@gmail.com", "salary" : 15000 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "id" : 5, "name" : "Harsha", "age" : 22, "e-mail" : "harsha@gmail.com", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "id" : 6, "name" : "Lee", "age" : 22, "e-mail" : "lee@gmail.com", "salary" : 20000 }

{ "\_id" : ObjectId("629b286c5a9537c7809bea2e"), "id" : 7, "name" : "Mohan", "age" : 34, "e-mail" : "mohan@gmail.com", "salary" : 25000 }

1. Find the documents of employees whose name starts with letter r

> db.empdetails.find({name:/^R/});

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b26f55a9537c7809bea29"), "id" : 3, "name" : "Ram", "age" : 30, "e-mail" : "ram@gmail.com", "salary" : 14500 }

1. Find the documents of employees whose name is not in mohan , raju, bhuvan

> db.empdetails.find({"name":{$nin:["Mohan","Raju","Bhuvan"]}});

{ "\_id" : ObjectId("629b26f55a9537c7809bea29"), "id" : 3, "name" : "Ram", "age" : 30, "e-mail" : "ram@gmail.com", "salary" : 14500 }

{ "\_id" : ObjectId("629b277f5a9537c7809bea2a"), "id" : 4, "name" : "Manu", "age" : 36, "e-mail" : "manu@gmail.com", "salary" : 15000 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "id" : 5, "name" : "Harsha", "age" : 22, "e-mail" : "harsha@gmail.com", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "id" : 6, "name" : "Lee", "age" : 22, "e-mail" : "lee@gmail.com", "salary" : 20000 }

1. Find the documents of employees whose names are mohan , raju, bhuvan

> db.empdetails.find({"name":{$in:["Mohan","Raju","Bhuvan"]}});

{ "\_id" : ObjectId("629b26ac5a9537c7809bea27"), "id" : 1, "name" : "Bhuvan", "age" : 32, "e-mail" : "mohan@gmail.com", "salary" : 6000 }

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b286c5a9537c7809bea2e"), "id" : 7, "name" : "Mohan", "age" : 34, "e-mail" : "mohan@gmail.com", "salary" : 25000 }

1. Retrieve the details of employees whose age is less than 30. Display only the fields name, salary

> db.empdetails.find({age:{$lt: 30}},{name:1,salary:1});

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "name" : "Raju", "salary" : 5500 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "name" : "Harsha", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "name" : "Lee", "salary" : 20000 }

1. Find the details of employees whose salary is >5000 and age is < 30

> db.empdetails.find({age:{$lt: 30}}&&{salary:{$gt : 5000}});

{ "\_id" : ObjectId("629b26ac5a9537c7809bea27"), "id" : 1, "name" : "Bhuvan", "age" : 32, "e-mail" : "mohan@gmail.com", "salary" : 6000 }

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b26f55a9537c7809bea29"), "id" : 3, "name" : "Ram", "age" : 30, "e-mail" : "ram@gmail.com", "salary" : 14500 }

{ "\_id" : ObjectId("629b277f5a9537c7809bea2a"), "id" : 4, "name" : "Manu", "age" : 36, "e-mail" : "manu@gmail.com", "salary" : 15000 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "id" : 5, "name" : "Harsha", "age" : 22, "e-mail" : "harsha@gmail.com", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "id" : 6, "name" : "Lee", "age" : 22, "e-mail" : "lee@gmail.com", "salary" : 20000 }

{ "\_id" : ObjectId("629b286c5a9537c7809bea2e"), "id" : 7, "name" : "Mohan", "age" : 34, "e-mail" : "mohan@gmail.com", "salary" : 25000 }

1. Update the e-mail of employee whose name is mohan // findOneAndUpdate()

> db.empdetails.update({name:"Mohan"},{$set:{"e-mail":"mohanmohan@gmail.com"}});

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.empdetails.find();

{ "\_id" : ObjectId("629b26ac5a9537c7809bea27"), "id" : 1, "name" : "Bhuvan", "age" : 32, "e-mail" : "mohan@gmail.com", "salary" : 6000 }

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b26f55a9537c7809bea29"), "id" : 3, "name" : "Ram", "age" : 30, "e-mail" : "ram@gmail.com", "salary" : 14500 }

{ "\_id" : ObjectId("629b277f5a9537c7809bea2a"), "id" : 4, "name" : "Manu", "age" : 36, "e-mail" : "manu@gmail.com", "salary" : 15000 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "id" : 5, "name" : "Harsha", "age" : 22, "e-mail" : "harsha@gmail.com", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "id" : 6, "name" : "Lee", "age" : 22, "e-mail" : "lee@gmail.com", "salary" : 20000 }

{ "\_id" : ObjectId("629b286c5a9537c7809bea2e"), "id" : 7, "name" : "Mohan", "age" : 34, "e-mail" : "mohanmohan@gmail.com", "salary" : 25000 }

1. Delete all the documents of employees whose age>25

> db.empdetails.deleteMany({age:{$gt : 25}});

{ "acknowledged" : true, "deletedCount" : 4 }

> db.empdetails.find();

{ "\_id" : ObjectId("629b26d65a9537c7809bea28"), "id" : 2, "name" : "Raju", "age" : 22, "e-mail" : "raju@gmail.com", "salary" : 5500 }

{ "\_id" : ObjectId("629b279a5a9537c7809bea2b"), "id" : 5, "name" : "Harsha", "age" : 22, "e-mail" : "harsha@gmail.com", "salary" : 30000 }

{ "\_id" : ObjectId("629b28075a9537c7809bea2d"), "id" : 6, "name" : "Lee", "age" : 22, "e-mail" : "lee@gmail.com", "salary" : 20000 }

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