C:\Users\computer>mongosh Current Mongosh Log ID: 663cefdce579faeb7b46b798 Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName= mongosh+2.2.5 7.0.9 Using MongoDB: Using Mongosh: 2.2.5 For mongosh info see: https://docs.mongodb.com/mongodb-shell/ The server generated these startup warnings when booting 2024-05-09T19:47:58.398+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted test> use Employee switched to db Employee Employee> db.createCollection("EmployeeDetails") { ok: 1 } \*\*\*\*\*\*\*A\*\*\*\*\*\*\*\*\* Employee> db.EmployeeDetails.insertOne({\_id:101,empname:"Ram",salary:15000,designation:"Clerk"}) { acknowledged: true, insertedId: 101 } Employee> db.EmployeeDetails.insertOne({\_id:102,empname:"Shyam",salary:20000,designation:"Administrator "}) { acknowledged: true, insertedId: 102 } Employee> db.EmployeeDetails.insertOne({ id:103,empname:"Hari",salary:10000,designation:"Supervisor"}) { acknowledged: true, insertedId: 103 }

db.EmployeeDetails.insertOne({\_id:104,empname:"Sita",salary:15000,designation:"Clerk"})

Employee>

{ acknowledged: true, insertedId: 104 }

```
Employee>
db.EmployeeDetails.insertOne({_id:105,empname:"Rose",salary:20000,designation:"Administrator"}
{ acknowledged: true, insertedId: 105 }
Employee>
db.EmployeeDetails.insertOne({_id:106,empname:"Maria",salary:25000,designation:"Manager"})
{ acknowledged: true, insertedId: 106 }
*******B*********
Employee> db.EmployeeDetails.find().pretty()
[
{ _id: 101, empname: 'Ram', salary: 15000, designation: 'Clerk' },
  _id: 102,
  empname: 'Shyam',
  salary: 20000,
  designation: 'Administrator'
},
 {
  _id: 103,
  empname: 'Hari',
  salary: 10000,
  designation: 'Supervisor'
},
{ _id: 104, empname: 'Sita', salary: 15000, designation: 'Clerk' },
  _id: 105,
  empname: 'Rose',
  salary: 20000,
  designation: 'Administrator'
},
 { _id: 106, empname: 'Maria', salary: 25000, designation: 'Manager' }
```

```
]
Employee> db.EmployeeDetails.find().forEach(printjson)
{
_id: 101,
empname: 'Ram',
salary: 15000,
designation: 'Clerk'
}
{
_id: 102,
empname: 'Shyam',
salary: 20000,
designation: 'Administrator'
}
{
_id: 103,
empname: 'Hari',
salary: 10000,
designation: 'Supervisor'
}
{
_id: 104,
empname: 'Sita',
salary: 15000,
designation: 'Clerk'
}
{
 _id: 105,
empname: 'Rose',
salary: 20000,
 designation: 'Administrator'
```

```
}
{
_id: 106,
empname: 'Maria',
salary: 25000,
designation: 'Manager'
}
**************
Employee> db.EmployeeDetails.find({"empname":{$regex:/^S/}})
[
{
  _id: 102,
  empname: 'Shyam',
  salary: 20000,
  designation: 'Administrator'
},
{ _id: 104, empname: 'Sita', salary: 15000, designation: 'Clerk' }
]
Employee> db.EmployeeDetails.find({"empname":{$regex:/^S/}}).forEach(printjson)
{
_id: 102,
empname: 'Shyam',
salary: 20000,
designation: 'Administrator'
}
{
 _id: 104,
empname: 'Sita',
salary: 15000,
 designation: 'Clerk'
```

```
}
*******D*********
Employee>
db.EmployeeDetails.findOneAndUpdate({"empname":"Sita"},{$inc:{salary:1000}},{returnDocument:"
after"})
{ _id: 104, empname: 'Sita', salary: 16000, designation: 'Clerk' }
*******E*********
Employee> db.EmployeeDetails.updateMany({},{$set:{"doj":""}})
{
 acknowledged: true,
insertedId: null,
 matchedCount: 6,
 modifiedCount: 6,
upsertedCount: 0
}
Employee> db.EmployeeDetails.find().pretty()
[
 {
  _id: 101,
  empname: 'Ram',
  salary: 15000,
  designation: 'Clerk',
  doj: "
},
 {
  _id: 102,
  empname: 'Shyam',
  salary: 20000,
  designation: 'Administrator',
  doj: "
},
 {
```

```
_id: 103,
            empname: 'Hari',
            salary: 10000,
            designation: 'Supervisor',
            doj: "
     },
      {
            _id: 104,
            empname: 'Sita',
            salary: 16000,
            designation: 'Clerk',
            doj: "
     },
      {
            _id: 105,
            empname: 'Rose',
            salary: 20000,
            designation: 'Administrator',
            doj: "
     },
            _id: 106,
            empname: 'Maria',
            salary: 25000,
            designation: 'Manager',
            doj: "
     }
]
*******F******
Employee>
db. Employee Details. aggregate ( \cite{condition: clerk}), \cite{condition: clerk}, \cite{condition: clerk}, \cite{condition: clerk}), \cite{condition: clerk}, \c
y:{$sum:"$salary"}}}])
```

```
[ { _id: 'Clerk', totalsalary: 31000 } ]
Employee> db.EmployeeDetails.aggregate([{$group:{_id:null,totalsalary:{$sum:"$salary"}}}])
[ { _id: null, totalsalary: 106000 } ]
Employee > db. Employee Details. aggregate ( [ \{\$group: \{\_id:null, totals alary: \{\$avg: "\$salary"\} \} \} ]) \\
[ { _id: null, totalsalary: 17666.66666666668 } ]
*******G*******
Employee> db.EmployeeDetails.deleteOne({_id:106})
{ acknowledged: true, deletedCount: 1 }
Employee> db.EmployeeDetails.find().pretty()
[
 {
  _id: 101,
  empname: 'Ram',
  salary: 15000,
  designation: 'Clerk',
  doj: "
 },
 {
  _id: 102,
  empname: 'Shyam',
  salary: 20000,
  designation: 'Administrator',
  doj: "
 },
 {
  _id: 103,
  empname: 'Hari',
  salary: 10000,
  designation: 'Supervisor',
  doj: "
 },
```

```
{
  _id: 104,
  empname: 'Sita',
  salary: 16000,
  designation: 'Clerk',
  doj: "
},
 {
  _id: 105,
  empname: 'Rose',
  salary: 20000,
  designation: 'Administrator',
  doj: "
}
]
******H******
Employee> use admin
switched to db admin
admin> db.createUser({user:"Mohan",pwd:"mohan123",roles:[{role:"readWrite",db:"Employee"}]})
{ ok: 1 }
admin> use Mohan
switched to db Mohan
Mohan> show dbs
Employee 72.00 KiB
admin 52.00 KiB
config 108.00 KiB
local 40.00 KiB
Mohan> use Employee
switched to db Employee
Employee> db.EmployeeDetails.find()
[
```

```
{
 _id: 101,
 empname: 'Ram',
 salary: 15000,
 designation: 'Clerk',
 doj: "
},
{
 _id: 102,
 empname: 'Shyam',
 salary: 20000,
 designation: 'Administrator',
 doj: "
},
{
 _id: 103,
 empname: 'Hari',
 salary: 10000,
 designation: 'Supervisor',
 doj: "
},
{
 _id: 104,
 empname: 'Sita',
 salary: 16000,
 designation: 'Clerk',
 doj: "
},
 _id: 105,
 empname: 'Rose',
```

```
salary: 20000,
  designation: 'Administrator',
  doj: "
}
]
Employee>
```