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test> use Employee
switched to db Employee
Employee> db
Employee
Employee> db.createCollection("Employee_Info")
{ ok: 1 }
Employee> show collections
Employee_Info
Employee> db.Employee_Info.insertMany([
...   {
...     Emp_Id: 121,
...     Emp_Name: "Amit",
...     Designation: "Software Engineer",
...     Date_of_Joining: ISODate("2019-06-15"),
...     Salary: 60000,
...     Dept_Name: "IT"
...   },
...   {
...     Emp_Id: 122,
...     Emp_Name: "Ravi",
...     Designation: "Senior Engineer",
...     Date_of_Joining: ISODate("2018-03-20"),
...     Salary: 75000,
...     Dept_Name: "R&D"
...   },
...   {
...     Emp_Id: 123,
...     Emp_Name: "Meera",
...     Designation: "Manager",
...     Date_of_Joining: ISODate("2016-01-10"),
...     Salary: 90000,
...     Dept_Name: "HR"
...   }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('69899e77e7bd2cd77163b112'),
    '1': ObjectId('69899e77e7bd2cd77163b113'),
    '2': ObjectId('69899e77e7bd2cd77163b114')
  }
}

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}
Employee> db.Employee_Info.find({ Emp_Id: 121 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science'
  }
]
Employee> db.Employee_Info.find().sort({ Salary: -1 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b114'),
    Emp_Id: 123,
    Emp_Name: 'Meera',
    Designation: 'Manager',
    Date_of_Joining: ISODate('2016-01-10T00:00:00.000Z'),
    Salary: 90000,
    Dept_Name: 'HR'
  },
  {
    _id: ObjectId('69899e77e7bd2cd77163b113'),
    Emp_Id: 122,
    Emp_Name: 'Ravi',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2018-03-20T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'R&D'
  },
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science'
  }
]
Employee> db.Employee_Info.find().sort({ Salary: 1 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
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    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science'
  }
]
Employee> db.Employee_Info.find().sort({ Salary: -1 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b114'),
    Emp_Id: 123,
    Emp_Name: 'Meera',
    Designation: 'Manager',
    Date_of_Joining: ISODate('2016-01-10T00:00:00.000Z'),
    Salary: 90000,
    Dept_Name: 'HR'
  },
  {
    _id: ObjectId('69899e77e7bd2cd77163b113'),
    Emp_Id: 122,
    Emp_Name: 'Ravi',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2018-03-20T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'R&D'
  },
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science'
  }
]
Employee> db.Employee_Info.find().sort({ Salary: 1 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science'
  },
  {
    _id: ObjectId('69899e77e7bd2cd77163b113'),
    Emp_Id: 122,
    Emp_Name: 'Ravi',

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mongosh mongodb://127.0.0.1
Emp_Name: 'Ravi',
Designation: 'Senior Engineer',
Date_of_Joining: ISODate('2018-03-20T00:00:00.000Z'),
Salary: 75000,
Dept_Name: 'R&D'
},
{
  _id: ObjectId('69899e77e7bd2cd77163b114'),
  Emp_Id: 123,
  Emp_Name: 'Meera',
  Designation: 'Manager',
  Date_of_Joining: ISODate('2016-01-10T00:00:00.000Z'),
  Salary: 90000,
  Dept_Name: 'HR'
}
]
Employee> db.Employee_Info.updateOne(
...   { Emp_Id: 121 },
...   { $set: { Projects: ["AI-Analytics", "Cloud-Migration", "BigData-Pipeline"] } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.updateOne(
...   { Emp_Id: 121 },
...   { $addToSet: { Projects: "ML-Deployment" } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.find({ Emp_Id: 121 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science',
    Projects: [

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mongosh mongodb://127.0.0.1 x + v
}
Employee> db.Employee_Info.find({ Emp_Id: 121 })
[
  {
    _id: ObjectId('69899e77e7bd2cd77163b112'),
    Emp_Id: 121,
    Emp_Name: 'Amit Kumar',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2019-06-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'Data Science',
    Projects: [
      'AI-Analytics',
      'Cloud-Migration',
      'BigData-Pipeline',
      'ML-Deployment'
    ]
  }
]
Employee> db.Employee_Info.insertOne({
...   Emp_Id: 130,
...   Emp_Name: "TemporaryUser",
...   Designation: "Intern",
...   Date_of_Joining: ISODate("2024-01-01"),
...   Salary: 15000,
...   Dept_Name: "Training",
...   createdAt: new Date()
... })
...
{
  acknowledged: true,
  insertedId: ObjectId('69899ef7e7bd2cd77163b115')
}
Employee> db.Employee_Info.createIndex(
...   { createdAt: 1 },
...   { expireAfterSeconds: 15 }
... )
...
createdAt_1
Employee> db.Employee_Info.find({ Emp_Id: 130 })
[
  {
    _id: ObjectId('69899ef7e7bd2cd77163b115'),
    Emp_Id: 130,
    Emp_Name: 'TemporaryUser',
    Designation: 'Intern',
    Date_of_Joining: ISODate('2024-01-01T00:00:00.000Z'),
    Salary: 15000,
    Dept_Name: 'Training',
    createdAt: ISODate('2026-02-09T08:46:47.854Z')
  }
]

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