```
PS C:\Users\preci> mongosh
Current Mongosh Log ID: 690347a7de57ccb32fcebea3
Connecting to:          mongodb://127.0.0.1:27017/?
directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.5.8
Using MongoDB:          8.2.0
Using Mongosh:          2.5.8

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/


------
   The server generated these startup warnings when booting
   2025-10-30T15:36:50.663+05:30: Access control is not enabled for the
database. Read and write access to data and configuration is unrestricted
------

test> use sports_club_db
switched to db sports_club_db
sports_club_db> db.createCollection("users")
{ ok: 1 }
sports_club_db> db.users.insertMany([
...    { name: "Aarav", join_date: new Date("2024-01-15"), sport: "Cricket" },
...    { name: "Bhavna", join_date: new Date("2024-02-10"), sport: "Badminton" },
...    { name: "Chirag", join_date: new Date("2024-02-22"), sport: "Football" },
...    { name: "Deepika", join_date: new Date("2024-03-01"), sport: "Tennis" },
...    { name: "Esha", join_date: new Date("2024-01-25"), sport: "Cricket" }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('690347b4de57ccb32fcebea4'),
    '1': ObjectId('690347b4de57ccb32fcebea5'),
    '2': ObjectId('690347b4de57ccb32fcebea6'),
    '3': ObjectId('690347b4de57ccb32fcebea7'),
    '4': ObjectId('690347b4de57ccb32fcebea8')
  }
}
sports_club_db> db.users.createIndex({ name: 1 })
name_1
sports_club_db> db.users.getIndexes()
[
  { v: 2, key: { _id: 1 }, name: '_id_' },
  { v: 2, key: { name: 1 }, name: 'name_1' }
]
sports_club_db> db.users.aggregate([
...    { $project: { _id: 0, UPPER_NAME: { $toUpper: "$name" } } },
...    { $sort: { UPPER_NAME: 1 } }
... ])
[
  { UPPER_NAME: 'AARAV' },
  { UPPER_NAME: 'BHAVNA' },
  { UPPER_NAME: 'CHIRAG' },
  { UPPER_NAME: 'DEEPIKA' },
  { UPPER_NAME: 'ESHA' }
]
sports_club_db> db.users.aggregate([
...    { $project: { name: 1, monthJoined: { $month: "$join_date" } } },
...    { $sort: { monthJoined: 1 } }
... ])
[
  {
    _id: ObjectId('690347b4de57ccb32fcebea4'),
    name: 'Aarav',
    monthJoined: 1
  },
```

```
  {
    _id: ObjectId('690347b4de57ccb32fcebea8'),
    name: 'Esha',
    monthJoined: 1
  },
  {
    _id: ObjectId('690347b4de57ccb32fcebea5'),
    name: 'Bhavna',
    monthJoined: 2
  },
  {
    _id: ObjectId('690347b4de57ccb32fcebea6'),
    name: 'Chirag',
    monthJoined: 2
  },
  {
    _id: ObjectId('690347b4de57ccb32fcebea7'),
    name: 'Deepika',
    monthJoined: 3
  }
]
sports_club_db> db.users.aggregate([
...     { $group: { _id: { month: { $month: "$join_date" } }, total_joined:
{ $sum: 1 } } },
...     { $sort: { "_id.month": 1 } }
... ])
[
  { _id: { month: 1 }, total_joined: 2 },
  { _id: { month: 2 }, total_joined: 2 },
  { _id: { month: 3 }, total_joined: 1 }
]
sports_club_db>
```