CREATING NEW DATABASE “FOOTBALLTEAM”:

```
test> use footballteam
switched to db footballteam
```

CREATING NEW COLLECTION “MANCHESTER”:

```
footballteam> db.createCollection("Manchester");
{ ok: 1 }
```

```
Current Mongosh Log ID: 64955f4c47792f992711fe82
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1
Using MongoDB:          6.0.6
Using Mongosh:          1.10.1

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


To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

------
   The server generated these startup warnings when booting

test> use footballteam
switched to db footballteam
footballteam> db.createCollection("Manchester");
{ ok: 1 }
footballteam> db.Manchester.insert({})
```

INSERTING DATA INTO COLLECTION:

```
footballteam> db.Manchester.insert({first_name: "Christiano",
last_name: "Ronaldo", rushing_yards: 300, touchdowns_thrown:20,
sacks:10, field_goals:100, missed_goals:3, catches:50});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne,
insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6495688b47792f992711fe83") }
}

footballteam> db.Manchester.find().pretty();
[
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  }
]
```

```
footballteam> db.Manchester.insert([{first_name: "Bruno", last_name:
"Fernandes", rushing_yards: 100, touchdowns_thrown:10, sacks:5,
field_goals:50, missed_goals:10, catches:5}, {first_name: "Marcus",
last_name: "Rashford", rushing_yards: 150, touchdowns_thrown:15,
sacks:9, field_goals:40, missed_goals:7, catches:10},{first_name:
"Paul", last_name: "Pogo", rushing_yards: 120, touchdowns_thrown:12,
sacks:2, field_goals:80, missed_goals:16, catches:30},{first_name:
"Jadon", last_name: "Sancho", rushing_yards: 50, touchdowns_thrown:3,
sacks:1, field_goals:5, missed_goals:1, catches:1},{first_name: "Harry",
last_name: "Maguire", rushing_yards: 250, touchdowns_thrown:30,
sacks:45, field_goals:150, missed_goals:25, catches:2},{first_name:
"Edison", last_name: "Kavani", rushing_yards: 10,
touchdowns_thrown:70, sacks:35, field_goals:55, missed_goals:24,
catches:15},{first_name: "Mason", last_name: "Greenwood",
rushing_yards: 130, touchdowns_thrown:40, sacks:65, field_goals:150,
missed_goals:30, catches:0},{first_name: "Anthony", last_name:
"Martial", rushing_yards: 160, touchdowns_thrown:11, sacks:15,
field_goals:10, missed_goals:11, catches:15},{first_name: "David",
last_name: "de Get", rushing_yards: 190, touchdowns_thrown:19,
sacks:85, field_goals:59, missed_goals:19, catches:55}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64956a8e47792f992711fe84"),
    '1': ObjectId("64956a8e47792f992711fe85"),
    '2': ObjectId("64956a8e47792f992711fe86"),
    '3': ObjectId("64956a8e47792f992711fe87"),
    '4': ObjectId("64956a8e47792f992711fe88"),
    '5': ObjectId("64956a8e47792f992711fe89"),
    '6': ObjectId("64956a8e47792f992711fe8a"),
    '7': ObjectId("64956a8e47792f992711fe8b"),
    '8': ObjectId("64956a8e47792f992711fe8c")
  }
}
```

```
footballteam> db.Manchester.insert({first_name: "Christiano", last_name: "Ronaldo", rushing_yards: 300, touchdowns_thrown:20, sacks:10, field_goals:100, missed_goals:3, catches:50});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6495688b47792f992711fe83") }
}
footballteam> db.Manchester.find().pretty();
[
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  }
]
```

```
footballteam> db.Manchester.insert([{first_name: "Bruno", last_name: "Fernandes", rushing_yards: 100, touchdowns_thrown:10, sacks:5, field_goals:50, missed_goals:10, catches:5}, {first_name: "Marcus", las
t_name: "Rashford", rushing_yards: 150, touchdowns_thrown:15, sacks:9, field_goals:40, missed_goals:7, catches:10},{first_name: "Paul", last_name: "Pogo", rushing_yards: 120, touchdowns_thrown:12, sacks:2
, field_goals:80, missed_goals:16, catches:30},{first_name: "Jadon", last_name: "Sancho", rushing_yards: 50, touchdowns_thrown:3, sacks:1, field_goals:5, missed_goals:1, catches:1},{first_name: "Harry", l
ast_name: "Maguire", rushing_yards: 250, touchdowns_thrown:30, sacks:45, field_goals:150, missed_goals:25, catches:2},{first_name: "Edison", last_name: "Kavani", rushing_yards: 10, touchdowns_thrown:70, s
acks:35, field_goals:55, missed_goals:24, catches:15},{first_name: "Mason", last_name: "Greenwood", rushing_yards: 130, touchdowns_thrown:40, sacks:65, field_goals:150, missed_goals:30, catches:0},{first_
name: "Anthony", last_name: "Martial", rushing_yards: 160, touchdowns_thrown:11, sacks:15, field_goals:10, missed_goals:11, catches:15},{first_name: "David", last_name: "de Gea", rushing_yards: 190, touch
downs_thrown:19, sacks:85, field_goals:59, missed_goals:19, catches:55}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("64956a8e47792f992711fe84"),
    '1': ObjectId("64956a8e47792f992711fe85"),
    '2': ObjectId("64956a8e47792f992711fe86"),
    '3': ObjectId("64956a8e47792f992711fe87"),
    '4': ObjectId("64956a8e47792f992711fe88"),
    '5': ObjectId("64956a8e47792f992711fe89"),
    '6': ObjectId("64956a8e47792f992711fe8a"),
    '7': ObjectId("64956a8e47792f992711fe8b"),
    '8': ObjectId("64956a8e47792f992711fe8c")
  }
}
```

VIEW INSERTED DATA:

```
footballteam> db.Manchester.find().pretty();
[
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  },
  {
    _id: ObjectId("64956a8e47792f992711fe84"),
    first_name: 'Bruno',
    last_name: 'Fernandes',
    rushing_yards: 100,
    touchdowns_thrown: 10,
    sacks: 5,
    field_goals: 50,
    missed_goals: 10,
    catches: 5
  },
  {
    _id: ObjectId("64956a8e47792f992711fe85"),
    first_name: 'Marcus',
    last_name: 'Rashford',
    rushing_yards: 150,
    touchdowns_thrown: 15,
    sacks: 9,
    field_goals: 40,
    missed_goals: 7,
    catches: 10
  },
  {
    _id: ObjectId("64956a8e47792f992711fe86"),
    first_name: 'Paul',
    last_name: 'Pogo',
```

```
  rushing_yards: 120,
  touchdowns_thrown: 12,
  sacks: 2,
  field_goals: 80,
  missed_goals: 16,
  catches: 30
},
{
  _id: ObjectId("64956a8e47792f992711fe87"),
  first_name: 'Jadon',
  last_name: 'Sancho',
  rushing_yards: 50,
  touchdowns_thrown: 3,
  sacks: 1,
  field_goals: 5,
  missed_goals: 1,
  catches: 1
},
{
  _id: ObjectId("64956a8e47792f992711fe88"),
  first_name: 'Harry',
  last_name: 'Maguire',
  rushing_yards: 250,
  touchdowns_thrown: 30,
  sacks: 45,
  field_goals: 150,
  missed_goals: 25,
  catches: 2
},
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  rushing_yards: 10,
  touchdowns_thrown: 70,
  sacks: 35,
  field_goals: 55,
  missed_goals: 24,
  catches: 15
},
{
  _id: ObjectId("64956a8e47792f992711fe8a"),
  first_name: 'Mason',
  last_name: 'Greenwood',
  rushing_yards: 130,
  touchdowns_thrown: 40,
  sacks: 65,
  field_goals: 150,
  missed_goals: 30,
  catches: 0
```

```
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8b"),
    first_name: 'Anthony',
    last_name: 'Martial',
    rushing_yards: 160,
    touchdowns_thrown: 11,
    sacks: 15,
    field_goals: 10,
    missed_goals: 11,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8c"),
    first_name: 'David',
    last_name: 'de Get',
    rushing_yards: 190,
    touchdowns_thrown: 19,
    sacks: 85,
    field_goals: 59,
    missed_goals: 19,
    catches: 55
  }]
```

```
footballteam> db.Manchester.find().pretty();
[
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  },
  {
    _id: ObjectId("64956a8e47792f992711fe84"),
    first_name: 'Bruno',
    last_name: 'Fernandes',
    rushing_yards: 100,
    touchdowns_thrown: 10,
    sacks: 5,
    field_goals: 50,
    missed_goals: 10,
    catches: 5
  },
  {
    _id: ObjectId("64956a8e47792f992711fe85"),
    first_name: 'Marcus',
    last_name: 'Rashford',
    rushing_yards: 150,
    touchdowns_thrown: 15,
    sacks: 9,
    field_goals: 40,
    missed_goals: 7,
    catches: 10
  },
  {
    _id: ObjectId("64956a8e47792f992711fe86"),
    first_name: 'Paul',
    last_name: 'Pogo',
    rushing_yards: 120,
    touchdowns_thrown: 12,
```

```
    _id: ObjectId("64956a8e47792f992711fe86"),
    first_name: 'Paul',
    last_name: 'Pogo',
    rushing_yards: 120,
    touchdowns_thrown: 12,
    sacks: 2,
    field_goals: 80,
    missed_goals: 16,
    catches: 30
  },
  {
    _id: ObjectId("64956a8e47792f992711fe87"),
    first_name: 'Jadon',
    last_name: 'Sancho',
    rushing_yards: 50,
    touchdowns_thrown: 3,
    sacks: 1,
    field_goals: 5,
    missed_goals: 1,
    catches: 1
  },
  {
    _id: ObjectId("64956a8e47792f992711fe88"),
    first_name: 'Harry',
    last_name: 'Maguire',
    rushing_yards: 250,
    touchdowns_thrown: 30,
    sacks: 45,
    field_goals: 150,
    missed_goals: 25,
    catches: 2
  },
  {
    _id: ObjectId("64956a8e47792f992711fe89"),
    first_name: 'Edison',
    last_name: 'Kavani',
    rushing_yards: 10,
    touchdowns_thrown: 70,
    sacks: 35,
    field_goals: 55,
    missed_goals: 24,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8a"),
    first_name: 'Mason',
    last_name: 'Greenwood',
    rushing_yards: 130,
    touchdowns_thrown: 40,
    sacks: 65,
    field_goals: 150,
    missed_goals: 30,
    catches: 0
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8b"),
    first_name: 'Anthony',
    last_name: 'Martial',
    rushing_yards: 160,
    touchdowns_thrown: 11,
    sacks: 15,
    field_goals: 10,
    missed_goals: 11,
```

```
  {
    _id: ObjectId("64956a8e47792f992711fe8b"),
    first_name: 'Anthony',
    last_name: 'Martial',
    rushing_yards: 160,
    touchdowns_thrown: 11,
    sacks: 15,
    field_goals: 10,
    missed_goals: 11,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8c"),
    first_name: 'David',
    last_name: 'de Get',
    rushing_yards: 190,
    touchdowns_thrown: 19,
    sacks: 85,
    field_goals: 59,
    missed_goals: 19,
    catches: 55
  }
]
footballteam>
```

QUERY 1 : LIST OF PLAYERS SORTED FROM MOST TO FEWEST GOALS MADE:

```
footballteam> db.Manchester.find().sort({field_goals:-1});
[
  {
    _id: ObjectId("64956a8e47792f992711fe88"),
    first_name: 'Harry',
    last_name: 'Maguire',
    rushing_yards: 250,
    touchdowns_thrown: 30,
    sacks: 45,
    field_goals: 150,
    missed_goals: 25,
    catches: 2
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8a"),
    first_name: 'Mason',
    last_name: 'Greenwood',
    rushing_yards: 130,
    touchdowns_thrown: 40,
    sacks: 65,
    field_goals: 150,
    missed_goals: 30,
    catches: 0
  },
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  },
  {
    _id: ObjectId("64956a8e47792f992711fe86"),
    first_name: 'Paul',
    last_name: 'Pogo',
    rushing_yards: 120,
    touchdowns_thrown: 12,
    sacks: 2,
    field_goals: 80,
    missed_goals: 16,
    catches: 30
  },
  {
```

```
  _id: ObjectId("64956a8e47792f992711fe8c"),
  first_name: 'David',
  last_name: 'de Get',
  rushing_yards: 190,
  touchdowns_thrown: 19,
  sacks: 85,
  field_goals: 59,
  missed_goals: 19,
  catches: 55
},
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  rushing_yards: 10,
  touchdowns_thrown: 70,
  sacks: 35,
  field_goals: 55,
  missed_goals: 24,
  catches: 15
},
{
  _id: ObjectId("64956a8e47792f992711fe84"),
  first_name: 'Bruno',
  last_name: 'Fernandes',
  rushing_yards: 100,
  touchdowns_thrown: 10,
  sacks: 5,
  field_goals: 50,
  missed_goals: 10,
  catches: 5
},
{
  _id: ObjectId("64956a8e47792f992711fe85"),
  first_name: 'Marcus',
  last_name: 'Rashford',
  rushing_yards: 150,
  touchdowns_thrown: 15,
  sacks: 9,
  field_goals: 40,
  missed_goals: 7,
  catches: 10
},
{
  _id: ObjectId("64956a8e47792f992711fe8b"),
  first_name: 'Anthony',
  last_name: 'Martial',
  rushing_yards: 160,
  touchdowns_thrown: 11,
  sacks: 15,
```

```
    field_goals: 10,
    missed_goals: 11,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe87"),
    first_name: 'Jadon',
    last_name: 'Sancho',
    rushing_yards: 50,
    touchdowns_thrown: 3,
    sacks: 1,
    field_goals: 5,
    missed_goals: 1,
    catches: 1
  }]
```

```
footballteam> db.Manchester.find().sort({field_goals:-1});
[
  {
    _id: ObjectId("64956a8e47792f992711fe88"),
    first_name: 'Harry',
    last_name: 'Maguire',
    rushing_yards: 250,
    touchdowns_thrown: 30,
    sacks: 45,
    field_goals: 150,
    missed_goals: 25,
    catches: 2
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8a"),
    first_name: 'Mason',
    last_name: 'Greenwood',
    rushing_yards: 130,
    touchdowns_thrown: 40,
    sacks: 65,
    field_goals: 150,
    missed_goals: 30,
    catches: 0
  },
  {
    _id: ObjectId("6495688b47792f992711fe83"),
    first_name: 'Christiano',
    last_name: 'Ronaldo',
    rushing_yards: 300,
    touchdowns_thrown: 20,
    sacks: 10,
    field_goals: 100,
    missed_goals: 3,
    catches: 50
  },
  {
    _id: ObjectId("64956a8e47792f992711fe86"),
    first_name: 'Paul',
    last_name: 'Pogo',
    rushing_yards: 120,
    touchdowns_thrown: 12,
    sacks: 2,
    field_goals: 80,
    missed_goals: 16,
    catches: 30
  },
```

```
  {
    _id: ObjectId("64956a8e47792f992711fe8c"),
    first_name: 'David',
    last_name: 'de Get',
    rushing_yards: 190,
    touchdowns_thrown: 19,
    sacks: 85,
    field_goals: 59,
    missed_goals: 19,
    catches: 55
  },
  {
    _id: ObjectId("64956a8e47792f992711fe89"),
    first_name: 'Edison',
    last_name: 'Kavani',
    rushing_yards: 10,
    touchdowns_thrown: 70,
    sacks: 35,
    field_goals: 55,
    missed_goals: 24,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe84"),
    first_name: 'Bruno',
    last_name: 'Fernandes',
    rushing_yards: 100,
    touchdowns_thrown: 10,
    sacks: 5,
    field_goals: 50,
    missed_goals: 10,
    catches: 5
  },
  {
    _id: ObjectId("64956a8e47792f992711fe85"),
    first_name: 'Marcus',
    last_name: 'Rashford',
    rushing_yards: 150,
    touchdowns_thrown: 15,
    sacks: 9,
    field_goals: 40,
    missed_goals: 7,
    catches: 10
  },
  {
    _id: ObjectId("64956a8e47792f992711fe8b"),
    first_name: 'Anthony',
    last_name: 'Martial',
    rushing_yards: 160,
    touchdowns_thrown: 11,
    sacks: 15,
    field_goals: 10,
    missed_goals: 11,
    catches: 15
  },
  {
    _id: ObjectId("64956a8e47792f992711fe87"),
    first_name: 'Jadon',
    last_name: 'Sancho',
    rushing_yards: 50,
    touchdowns_thrown: 3,
    sacks: 1,
    field_goals: 5,
    missed_goals: 1,
    catches: 1
  }
]
footballteam>
```

QUERY 2: THE PLAYER WITH THE MOST TOUCHDOWNS THROWN:

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1,
touchdowns_thrown: 1 }, { sort: { touchdowns_thrown: -1 } })
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  touchdowns_thrown: 70
}
```

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, touchdowns_thrown: 1 }, { sort: { touchdowns_thrown: -1 } })
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  touchdowns_thrown: 70
}
footballteam>
```

QUERY 3: THE PLAYER WITH THE MOST RUSHING YARDS:

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, rushing_yards: 1 }, { sort: { rushing_yards: -1 } })
{
  _id: ObjectId("6495688b47792f992711fe83"),
  first_name: 'Christiano',
  last_name: 'Ronaldo',
  rushing_yards: 300
}
```

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, rushing_yards: 1 }, { sort: { rushing_yards: -1 } })
{
  _id: ObjectId("6495688b47792f992711fe83"),
  first_name: 'Christiano',
  last_name: 'Ronaldo',
  rushing_yards: 300
}
footballteam>
```

QUERY 4: THE PLAYER WITH THE LEAST RUSHING YARDS:

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, rushing_yards: 1 }, { sort: { rushing_yards: 1 } })
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  rushing_yards: 10
}
```

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, rushing_yards: 1 }, { sort: { rushing_yards: 1 } })
{
  _id: ObjectId("64956a8e47792f992711fe89"),
  first_name: 'Edison',
  last_name: 'Kavani',
  rushing_yards: 10
}
footballteam>
```

QUERY 5: THE PLAYER WITH THE MOST NUMBER OF SACKS:

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, sacks: 1 }, { sort: { sacks: -1 } })
{
  _id: ObjectId("64956a8e47792f992711fe8c"),
  first_name: 'David',
  last_name: 'de Get',
  sacks: 85
}
```

```
footballteam> db.Manchester.findOne({}, {first_name: 1, last_name: 1, sacks: 1 }, { sort: { sacks: -1 } })
{
  _id: ObjectId("64956a8e47792f992711fe8c"),
  first_name: 'David',
  last_name: 'de Get',
  sacks: 85
}
footballteam>
```