

## Assignment-2

Name: Pavankumar Reddy midivelapu

CUW ID: F00599140

CUW Mail: [pavankumarreddy.midivelapu@cuw.edu](mailto:pavankumarreddy.midivelapu@cuw.edu)

Course Name/ID: CSC 560-Applied Restful API's&Integration

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Created collection name with 15 players:

```
db.players.insertMany([
```

```
  { name: "Aaron Rodgers", position: "Quarterback", rushingYards: 183,  
    touchdowns: 48, sacks: 20, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 1  
  },
```

```
  { name: "Aaron Jones", position: "Running Back", rushingYards: 1104,  
    touchdowns: 11, sacks: 0, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 47 },
```

```
  { name: "Davante Adams", position: "Wide Receiver", rushingYards: 0,  
    touchdowns: 18, sacks: 0, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 115 },
```

```
  { name: "pavan", position: "Wide Receiver", rushingYards: 118, touchdowns: 9,  
    sacks: 12, fieldGoalsMade: 1, fieldGoalsMissed: 2, catches: 12 },
```

```
  { name: "kiran", position: "Running Back", rushingYards: 121, touchdowns: 13,  
    sacks: 0, fieldGoalsMade: 12, fieldGoalsMissed: 1, catches: 472 },
```

```
  { name: "Anand", position: "Wide Receiver", rushingYards: 0, touchdowns: 16,  
    sacks: 9, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 116 },
```

```
  { name: "David", position: "Quarterback", rushingYards: 123, touchdowns: 43,  
    sacks: 33, fieldGoalsMade: 2, fieldGoalsMissed: 2, catches: 11 },
```

```
  { name: "john", position: "Running Back", rushingYards: 113, touchdowns: 112,  
    sacks: 0, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 42 },
```

```
  { name: "Doe", position: "Wide Receiver", rushingYards: 0, touchdowns: 18,  
    sacks: 0, fieldGoalsMade: 0, fieldGoalsMissed: 0, catches: 115 },
```

```
  { name: "Krupakar", position: "Quarterback", rushingYards: 145, touchdowns:  
41, sacks: 21, fieldGoalsMade: 1, fieldGoalsMissed: 2, catches: 22 },
```

```
  { name: "Jones", position: "Running Back", rushingYards: 1034, touchdowns:  
132, sacks: 2, fieldGoalsMade: 2, fieldGoalsMissed: 1, catches: 434 },
```

```
  { name: "Harsha", position: "Wide Receiver", rushingYards: 2, touchdowns: 182,  
    sacks: 2, fieldGoalsMade: 3, fieldGoalsMissed: 0, catches: 123 },
```

```
  { name: "Karthik", position: "Quarterback", rushingYards: 112, touchdowns: 76,  
    sacks: 0, fieldGoalsMade: 2, fieldGoalsMissed: 7, catches: 12 },
```

```
{ name: "praveen", position: "Running Back", rushingYards: 116, touchdowns: 112, sacks: 0, fieldGoalsMade: 5, fieldGoalsMissed: 7, catches: 43 },
{ name: "Akhil", position: "Wide Receiver", rushingYards: 9, touchdowns: 13, sacks: 0, fieldGoalsMade: 5, fieldGoalsMissed: 1, catches: 165 }
]);
```

**output:**

```
> db.players.find();
{ "_id" : ObjectId("65c0446c6cfaeb9579f87474"), "name" : "Aaron Rodgers", "position" : "Quarterback", "rushingYards" : 183, "touchdowns" : 48, "sacks" : 20, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 1 }
{ "_id" : ObjectId("65c045186cfaeb9579f87475"), "name" : "Aaron Jones", "position" : "Running Back", "rushingYards" : 1104, "touchdowns" : 11, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 47 }
{ "_id" : ObjectId("65c045186cfaeb9579f87476"), "name" : "Davante Adams", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 18, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 115 }
{ "_id" : ObjectId("65c045186cfaeb9579f87477"), "name" : "pavan", "position" : "Wide Receiver", "rushingYards" : 118, "touchdowns" : 9, "sacks" : 12, "fieldGoalsMade" : 1, "fieldGoalsMissed" : 2, "catches" : 12 }
{ "_id" : ObjectId("65c045186cfaeb9579f87478"), "name" : "kiran", "position" : "Running Back", "rushingYards" : 121, "touchdowns" : 13, "sacks" : 0, "fieldGoalsMade" : 12, "fieldGoalsMissed" : 1, "catches" : 472 }
{ "_id" : ObjectId("65c045186cfaeb9579f87479"), "name" : "Anand", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 16, "sacks" : 9, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 116 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747a"), "name" : "David", "position" : "Quarterback", "rushingYards" : 123, "touchdowns" : 43, "sacks" : 33, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 2, "catches" : 11 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747b"), "name" : "john", "position" : "Running Back", "rushingYards" : 113, "touchdowns" : 12, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 42 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747c"), "name" : "Doe", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 18, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 115 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747d"), "name" : "Krupakar", "position" : "Quarterback", "rushingYards" : 145, "touchdowns" : 41, "sacks" : 21, "fieldGoalsMade" : 1, "fieldGoalsMissed" : 2, "catches" : 22 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747e"), "name" : "Jones", "position" : "Running Back", "rushingYards" : 1034, "touchdowns" : 132, "sacks" : 2, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 1, "catches" : 434 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747f"), "name" : "Harsha", "position" : "Wide Receiver", "rushingYards" : 2, "touchdowns" : 182, "sacks" : 2, "fieldGoalsMade" : 3, "fieldGoalsMissed" : 0, "catches" : 123 }
{ "_id" : ObjectId("65c045186cfaeb9579f87480"), "name" : "Karthik", "position" : "Quarterback", "rushingYards" : 112, "touchdowns" : 76, "sacks" : 0, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 7, "catches" : 12 }
{ "_id" : ObjectId("65c045186cfaeb9579f87481"), "name" : "praveen", "position" : "Running Back", "rushingYards" : 116, "touchdowns" : 112, "sacks" : 0, "fieldGoalsMade" : 5, "fieldGoalsMissed" : 7, "catches" : 43 }
{ "_id" : ObjectId("65c045186cfaeb9579f87482"), "name" : "Akhil", "position" : "Wide Receiver", "rushingYards" : 9, "touchdowns" : 13, "sacks" : 0, "fieldGoalsMade" : 5, "fieldGoalsMissed" : 1, "catches" : 165 }
>
```

## 5 query my collection for:

1.The Player with the most touchdown passes.

**db.players.find().sort({ touchdowns: -1 }).limit(1)**

**output:**

```
> db.players.find().sort({ touchdowns: -1 }).limit(1)
{ "_id" : ObjectId("65c045186cfaeb9579f8747f"), "name" : "Harsha", "position" : "Wide Receiver", "rushingYards" : 2, "touchdowns" : 182, "sacks" : 2, "fieldGoalsMade" : 3, "fieldGoalsMissed" : 0, "catches" : 123 }
>
```

2.The Player with the most rushing yards.

**db.players.find().sort({ rushingYards: -1 }).limit(1)**

**output:**

```
> db.players.find().sort({ rushingYards: -1 }).limit(1)
{ "_id" : ObjectId("65c045186cfaeb9579f87475"), "name" : "Aaron Jones", "position" : "Running Back", "rushingYards" : 1104, "touchdowns" : 11, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 47 }
>
```

3.The Player with the least rushing yards.

**db.players.find({ rushingYards: { \$gt: 0 } }).sort({ rushingYards: 1 }).limit(1)**

**output:**

```
> db.players.find({ rushingYards: { $gt: 0 } }).sort({ rushingYards: 1 }).limit(1)
{ "_id" : ObjectId("65c045186cfaeb9579f8747f"), "name" : "Harsha", "position" : "Wide Receiver", "rushingYards" : 2, "touchdowns" : 182, "sacks" : 2, "fieldGoalsMade" : 3, "fieldGoalsMissed" : 0, "catches" : 123 }
>
```

4.A list of players sorted from most to fewest field goals made.

**db.players.find().sort({ fieldGoalsMade: -1 })**

**output:**

```
> db.players.find().sort({ fieldGoalsMade: -1 })
{ "_id" : ObjectId("65c045186cfaeb9579f87478"), "name" : "kiran", "position" : "Running Back", "rushingYards" : 121, "touchdowns" : 13, "sacks" : 0, "fieldGoalsMade" : 12, "fieldGoalsMissed" : 1, "catches" : 472 }
{ "_id" : ObjectId("65c045186cfaeb9579f87481"), "name" : "praveen", "position" : "Running Back", "rushingYards" : 116, "touchdowns" : 112, "sacks" : 0, "fieldGoalsMade" : 5, "fieldGoalsMissed" : 7, "catches" : 43 }
{ "_id" : ObjectId("65c045186cfaeb9579f87482"), "name" : "Akhil", "position" : "Wide Receiver", "rushingYards" : 9, "touchdowns" : 13, "sacks" : 0, "fieldGoalsMade" : 5, "fieldGoalsMissed" : 1, "catches" : 165 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747f"), "name" : "Harsha", "position" : "Wide Receiver", "rushingYards" : 2, "touchdowns" : 182, "sacks" : 2, "fieldGoalsMade" : 3, "fieldGoalsMissed" : 0, "catches" : 123 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747a"), "name" : "David", "position" : "Quarterback", "rushingYards" : 123, "touchdowns" : 43, "sacks" : 33, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 2, "catches" : 11 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747e"), "name" : "Jones", "position" : "Running Back", "rushingYards" : 1034, "touchdowns" : 132, "sacks" : 2, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 1, "catches" : 434 }
{ "_id" : ObjectId("65c045186cfaeb9579f87480"), "name" : "Karthik", "position" : "Quarterback", "rushingYards" : 112, "touchdowns" : 76, "sacks" : 0, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 7, "catches" : 12 }
{ "_id" : ObjectId("65c045186cfaeb9579f87477"), "name" : "pavan", "position" : "Wide Receiver", "rushingYards" : 118, "touchdowns" : 9, "sacks" : 12, "fieldGoalsMade" : 1, "fieldGoalsMissed" : 2, "catches" : 12 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747d"), "name" : "Krupakar", "position" : "Quarterback", "rushingYards" : 145, "touchdowns" : 41, "sacks" : 21, "fieldGoalsMade" : 1, "fieldGoalsMissed" : 2, "catches" : 22 }
{ "_id" : ObjectId("65c0446c6cfaeb9579f87474"), "name" : "Aaron Rodgers", "position" : "Quarterback", "rushingYards" : 183, "touchdowns" : 48, "sacks" : 20, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 1 }
{ "_id" : ObjectId("65c045186cfaeb9579f87475"), "name" : "Aaron Jones", "position" : "Running Back", "rushingYards" : 1104, "touchdowns" : 11, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 47 }
{ "_id" : ObjectId("65c045186cfaeb9579f87476"), "name" : "Davante Adams", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 18, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 115 }
{ "_id" : ObjectId("65c045186cfaeb9579f87479"), "name" : "Anand", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 16, "sacks" : 9, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 116 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747b"), "name" : "john", "position" : "Running Back", "rushingYards" : 113, "touchdowns" : 12, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 42 }
{ "_id" : ObjectId("65c045186cfaeb9579f8747c"), "name" : "Doe", "position" : "Wide Receiver", "rushingYards" : 0, "touchdowns" : 18, "sacks" : 0, "fieldGoalsMade" : 0, "fieldGoalsMissed" : 0, "catches" : 115 }
```

5.The Player with the most number of sacks.

**db.players.find().sort({ sacks: -1 }).limit(1)**

**output:**

```
> db.players.find().sort({ sacks: -1 }).limit(1)
{ "_id" : ObjectId("65c045186cfaeb9579f8747a"), "name" : "David", "position" : "Quarterback", "rushingYards" : 123, "touchdowns" : 4
3, "sacks" : 33, "fieldGoalsMade" : 2, "fieldGoalsMissed" : 2, "catches" : 11 }
> █
```