Pawan Varanasi(F00586767)

- I have created a database named "playersDb", in which I have created a collection called "players".

```
pavan@Macs-MBP ~ % mongosh
Current Mongosh Log ID: 6498b9f56928202ef639c955
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.0
Using MongoDB:          5.0.17
Using Mongosh:          1.10.0

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

------
   The server generated these startup warnings when booting
   2023-06-25T13:14:21.768-04:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
------

test> show dbs
admin        40.00 KiB
config       72.00 KiB
contactsDb   72.00 KiB
local        72.00 KiB
playersDb    72.00 KiB
webMongo     56.00 KiB
test>
```

- I have inserted some Documents/Data via the command **db.players.insertMany**():

```
playersDb> db.players.find()
[
  {
    _id: ObjectId("64971ca558f5cb1e03b7f493"),
    name: 'Pavan',
    touchDown: 1,
    rushingYards: 2,
    goals: 3,
    sacks: 4
  },
  {
    _id: ObjectId("64971cbd58f5cb1e03b7f494"),
    name: 'Charan',
    touchDown: 2,
    rushingYards: 3,
    goals: 4,
    sacks: 5
  },
  {
    _id: ObjectId("64971cee58f5cb1e03b7f496"),
    name: 'Charanii',
    touchDown: 3,
    rushingYards: 4,
    goals: 5,
    sacks: 6
  },
  {
    _id: ObjectId("64971d6a58f5cb1e03b7f497"),
    name: 'Rajitha',
    touchDown: 6,
    rushingYards: 3,
    goals: 7,
    sacks: 10
  },
  {
    _id: ObjectId("649720d74c80b2c373badfa0"),
    name: 'vijay',
    touchDown: 6,
    rushingYards: 3,
    goals: 30,
    sacks: 10
  },
  {
    _id: ObjectId("649721f5b4c6840cfd587228"),
    name: 'Sujay',
    touchDown: 6,
    rushingYards: 3,
```

- Now let us see some queries that I have performed on the above data :
  1. The Player with most Touchdowns thrown:

```
[playersDb> db.players.findOne({},{name: 1, touchDown: 1}, {sort:{touchDown]
:-1}})
{
  _id: ObjectId("6498a8b8fc84fd1d83afa8ea"),
  name: 'Ravi',
  touchDown: 8
}
playersDb> ▌
```

2. Player with most Rushing Yards:

```
[playersDb> db.players.findOne({},{name: 1, rushingYards: 1}, {sort:{rushin
gYards:-1}})
{
  _id: ObjectId("64971cee58f5cb1e03b7f496"),
  name: 'Charanii',
  rushingYards: 4
}
playersDb> ▌
```

3. Player with least Rushing Yards:

```
[playersDb> db.players.findOne({},{name: 1, rushingYards: 1}, {sort:{rushin]
gYards:1}})
{
  _id: ObjectId("64971ca558f5cb1e03b7f493"),
  name: 'Pavan',
  rushingYards: 2
}
playersDb>
```

4. The players with the most Sacks:

```
[playersDb> db.players.findOne({},{name: 1, sacks: 1}, {sort:{sacks:-1}})  ]
{ _id: ObjectId("6498a8b8fc84fd1d83afa8ea"), name: 'Ravi', sacks: 17 }
playersDb>
```

5. The player with the least Sacks:

```
[playersDb> db.players.findOne({},{name: 1, sacks: 1}, {sort:{sacks:1}})    ]
{ _id: ObjectId("64971ca558f5cb1e03b7f493"), name: 'Pavan', sacks: 4 }
playersDb> █
```

6. The player with the most Goals:

```
[playersDb> db.players.findOne({},{name: 1, sacks: 1, goals : 1}, {sort:{go]
als:-1}})
{
  _id: ObjectId("649720d74c80b2c373badfa0"),
  name: 'vijay',
  goals: 30,
  sacks: 10
}
playersDb> █
```