

MONGO DB ASSIGNMENT

1. Create the collection games which contains game_id, game_name, game_category, Ratings(out of 10).

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
Microsoft Windows [Version 10.0.22621.3447]
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C:\Windows\System32>mongosh
Current Mongosh Log ID: 663a3e7403d8b1b076117b7a
Connecting to:  mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.2.4
Using MongoDB:  7.0.8
Using Mongosh:  2.2.4
mongosh 2.2.5 is available for download: https://www.mongodb.com/try/download/shell

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

-----
  The server generated these startup warnings when booting
  2024-05-07T13:58:57.059+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

test> use Users;
switched to db Users
Users> db.createCollection("Games", {capped : true, size : 1000, max : 100});
{ ok: 1 }
```

2. Add 5 documents in the game collection.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
test> use Users;
switched to db Users
Users> db.createCollection("Games", {capped : true, size : 1000, max : 100});
{ ok: 1 }
Users> db.Games.insertMany([{"game_id" : 001, "game_name" : "Overwatch", "game_category" : "FPS", "ratings" : 8.6},
...                           {"game_id" : 002, "game_name" : "Rocket League", "game_category" : "Sports", "ratings" : 8.8},
...                           {"game_id" : 003, "game_name" : "Minecraft", "game_category" : "Sandbox", "ratings" : 9.0},
...                           {"game_id" : 004, "game_name" : "Wild Hunt", "game_category" : "Action", "ratings" : 9.5},
...                           {"game_id" : 005, "game_name" : "Among Us", "game_category" : "Social Deduction", "ratings" : 8.5}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('663a418603d8b1b076117b7b'),
    '1': ObjectId('663a418603d8b1b076117b7c'),
    '2': ObjectId('663a418603d8b1b076117b7d'),
    '3': ObjectId('663a418603d8b1b076117b7e'),
    '4': ObjectId('663a418603d8b1b076117b7f')
  }
}
```

3. Write a MongoDB query to return all games.

```
Users> db.Games.find().pretty();
[
  {
    _id: ObjectId('663a418603d8b1b076117b7b'),
    game_id: 1,
    game_name: 'Overwatch',
    game_category: 'FPS',
    ratings: 8.6
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7c'),
    game_id: 2,
    game_name: 'Rocket League',
    game_category: 'Sports',
    ratings: 8.8
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7d'),
    game_id: 3,
    game_name: 'Minecraft',
    game_category: 'Sandbox',
    ratings: 9
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7e'),
    game_id: 4,
    game_name: 'Wild Hunt',
    game_category: 'Action',
    ratings: 9.5
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7f'),
    game_id: 5,
    game_name: 'Among Us',
    game_category: 'Social Deduction',
    ratings: 8.5
  }
]
```

4. Write a MongoDB query to get your game by name using findOne method.

```
Users> db.Games.findOne({game_name: "Wild Hunt"});
{
  _id: ObjectId('663a418603d8b1b076117b7e'),
  game_id: 4,
  game_name: 'Wild Hunt',
  game_category: 'Action',
  ratings: 9.5
}
```

5. Write a MongoDB query to return the first 3 highest rated games.

```
Users> db.Games.find().sort({ratings: -1}).limit(3);
[
  {
    _id: ObjectId('663a418603d8b1b076117b7e'),
    game_id: 4,
    game_name: 'Wild Hunt',
    game_category: 'Action',
    ratings: 9.5
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7d'),
    game_id: 3,
    game_name: 'Minecraft',
    game_category: 'Sandbox',
    ratings: 9
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7c'),
    game_id: 2,
    game_name: 'Rocket League',
    game_category: 'Sports',
    ratings: 8.8
  }
]
```

6. Write a MongoDB query to sort all the games by ratings in descending order.

```
Users> db.Games.find().sort({ratings: -1});
[
  {
    _id: ObjectId('663a418603d8b1b076117b7e'),
    game_id: 4,
    game_name: 'Wild Hunt',
    game_category: 'Action',
    ratings: 9.5
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7d'),
    game_id: 3,
    game_name: 'Minecraft',
    game_category: 'Sandbox',
    ratings: 9
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7c'),
    game_id: 2,
    game_name: 'Rocket League',
    game_category: 'Sports',
    ratings: 8.8
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7b'),
    game_id: 1,
    game_name: 'Overwatch',
    game_category: 'FPS',
    ratings: 8.6
  },
  {
    _id: ObjectId('663a418603d8b1b076117b7f'),
    game_id: 5,
    game_name: 'Among Us',
    game_category: 'Social Deduction',
    ratings: 8.5
  }
]
```