

## Practice Task: In-Depth Exploration of MongoDB Queries:

1. Find all documents in the collection where the age is greater than 30, and only return the name and email fields.

**Answer:** `db.test.find({ age: { $gt: 30 } }).project({ name: 1, email: 1 })`

2. Find documents where the favorite color is either "Maroon" or "Blue."

**Answer:**

```
db.test.find({
  $or: [
    {"favoutiteColor": "Maroon"},
    {"favoutiteColor": "Blue"}
  ]
})
```

3. Find all documents where the skills is an empty array.

**Answer:** `db.test.find({ skills: { $size: 0 } })`

4. Find documents where the person has skills in both "JavaScript" and "Java."

**Answer:**

```
db.test.find({
  $and: [
    { "skills.name": "JAVASCRIPT" },
    { "skills.name": "JAVA" }
  ]
})
```

5. Add a new skill to the skills array for the document with the email "aminextleveldeveloper@gmail.com" The skill is {"name": "Python", "level": "Beginner", "isLearning": true}.

**Answer:**

```
db.test.updateOne(
  { email: "aminextleveldeveloper@gmail.com" },
  {
    $push: {
      "skills": {
        "name": "Python",
        "level": "Beginner",
        "isLearning": true
      }
    }
  },
)
```

6. Add a new language "Spanish" to the list of languages spoken by the person.

**Answer:**

```
db.test.updateOne(
  { _id: ObjectId("6406ad65fc13ae5a400000c6") },
  {
    $addToSet: {
      languages: "Spanish"
    }
  },
)
```

7. Remove the skill with the name "Kotlin" from the skills array.

**Answer:**

```
db.test.updateOne(  
  { _id: ObjectId("6406ad65fc13ae5a400000c6") },  
  {  
    $pull: {  
      "skills": { "name": "KOTLIN" }  
    }  
  })
```