

Create a collection by the name `blogPosts` and it has 3 fields `id`, `title` and `comments`. In the collection the `comments` field is an array which consists of user details. Each collection consists of two user details inside the `comments` array- user name and text

Demonstrate the following

1. Adding an element into array
2. Display second element
3. Display size of the array
4. Display first two elements of the array
5. Update the document with `id` 4 and replace the element present in 1st index position of the array with another array

```
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.insertOne({_id:1, title: "Introduction to MongoDB", comments: [ { userName: "Alice", text: "Great article!" }, { userName: "Bob", text: "Looking forward to more content." } ] })
{ acknowledged: true, insertedId: 1 }
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.insertOne({_id:2, title: "Advanced MongoDB Techniques", comments: [ { userName: "Charlie", text: "Very informative." }, { userName: "David", text: "Helped me a lot!" } ] })
{ acknowledged: true, insertedId: 2 }
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.insertOne({_id:3, title: "MongoDB Performance Optimization", comments: [ { userName: "Eve", text: "I have a question." }, { userName: "Frank", text: "This is exactly what I needed!" } ] })
{ acknowledged: true, insertedId: 3 }
```

```
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.update( { _id:1 }, { $push: { comments: { userName: "John", text: "This is a new comment." } } })
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> 
```

```
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.aggregate([
... { $unwind: "$comments" }, // Unwind the comments array
... { $project: { _id: 0, commentText: "$comments.text" } } // Project only the text field
... ])
[
  { commentText: 'Great article!' },
  { commentText: 'Looking forward to more content.' },
  { commentText: 'This is a new comment.' },
  { commentText: 'Very informative.' },
  { commentText: 'Helped me a lot!' },
  { commentText: 'I have a question.' },
  { commentText: 'This is exactly what I needed!' }
]
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> 
```

```
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.aggregate([
... { $project: { commentCount: { $size: "$comments" } } }
... ])
[
  { _id: 1, commentCount: 3 },
  { _id: 2, commentCount: 2 },
  { _id: 3, commentCount: 2 }
]
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> 
```

```

Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.aggregate([
...   { $project: { firstTwoComments: { $slice: ["$comments", 2] } } }
... ])
[
  {
    _id: 1,
    firstTwoComments: [
      { userName: 'Alice', text: 'Great article!' },
      { userName: 'Bob', text: 'Looking forward to more content.' }
    ]
  },
  {
    _id: 2,
    firstTwoComments: [
      { userName: 'Charlie', text: 'Very informative.' },
      { userName: 'David', text: 'Helped me a lot!' }
    ]
  },
  {
    _id: 3,
    firstTwoComments: [
      { userName: 'Eve', text: 'I have a question.' },
      { userName: 'Frank', text: 'This is exactly what I needed!' }
    ]
  }
]
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> 

```

```

Atlas atlas-12eb3b-shard-0 [primary] MY_DB> db.blogPosts.update( { _id: 3 }, { $set: { "comments.1": { userName: "Alice", text: "Replaced comment." } } } )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-12eb3b-shard-0 [primary] MY_DB> 

```