Ex. No :10	Building The API Request
Date : 25/09/2024	

Aim:

To insert a single document containing user information into a MongoDB collection and insert multiple documents at once, then retrieve and verify the inserted documents from the collection.

Procedure:

1. Set Up MongoDB:

- Ensure MongoDB is installed and running on your machine.
- Open the MongoDB shell or connect using a MongoDB client like MongoDB Compass.

2. Create or Switch to the Database:

- Use the command to switch to the desired database:

```
javascript
use pradeep
```

3. Insert a Single Document:

- Insert a single document into the collection named myCollection:

```
javascript
db.myCollection.insertOne({
name: "Pradeep Raj",
age: "21",
email: "cyberattacks10@gmail.com"
})
```

4. Verify the Insertion of the Single Document:

- Confirm the acknowledgment and inserted ID from the output.

5. Insert Multiple Documents:

- Insert multiple documents into myCollection:

```
javascript
```

```
db.myCollection.insertMany([
{ name: "Alice", age: 28, email: "alice@example.com" },
{ name: "Bob", age: 30, email: "bob@example.com" },
{ name: "Charlie", age: 27, email: "charlie@example.com" }
])
```

6. Retrieve All Documents:

- Retrieve and display all documents in the collection to verify the insertions:

javascript

```
db.myCollection.find()
```

Source Code:

Here's the complete MongoDB shell code to execute the above steps:

javascript

```
// Switch to the database named 'pradeep'
use pradeep;
// Insert a single document into 'myCollection'
db.myCollection.insertOne({
  name: "Pradeep Raj",
  age: "21",
  email: "cyberattacks10@gmail.com"
});
// Insert multiple documents into 'myCollection'
db.myCollection.insertMany([
  { name: "Alice", age: 28, email: "alice@example.com" },
  { name: "Bob", age: 30, email: "bob@example.com" },
  { name: "Charlie", age: 27, email: "charlie@example.com" }
]);
// Find all documents in 'myCollection'
db.myCollection.find();
```

Output:

1. After Executing the Insert One Command:

You will see an acknowledgment response similar to the following:

plaintext

```
{
  acknowledged: true,
  insertedId: ObjectId('670bbe709a987413735ead70')
}
```

2. After Executing the Insert Many Command:

There will be no specific output for insertMany, but you can assume that it succeeded if there are no errors.

3. After Executing the Find Command:

The output will display all documents in the collection:

plaintext

```
{ "_id" : ObjectId("670bbe709a987413735ead70"), "name" : "Pradeep Raj", "age" : "21", "email" : "cyberattacks10@gmail.com" }
{ "_id" : ObjectId("670bc1026e7e078e8add91ea"), "name" : "Alice", "age" : "28", "email" : "alice@example.com" }
{ "_id" : ObjectId("670bc1026e7e078e8add91eb"), "name" : "Bob", "age" : "30", "email" : "bob@example.com" }
{ "_id" : ObjectId("670bc1026e7e078e8add91ec"), "name" : "Charlie", "age" : "27", "email" : "charlie@example.com" }
```

Result:

Successfully inserted the documents and retrieved them from the collection.