

Project: MongoDB

MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schema.

Business Requirement:

As a Data Administrator of your organization, you receive JSON files from various web applications on a recurring basis, which have new or updated records. You are responsible for updating the outdated documents and inserting the new documents in appropriate collection. You are also supposed to delete the redundant documents.

Learning Outcomes:

Major learning from this project therefore can be summarized as follows -

1. Handle MongoDB database
2. Inserting new documents in the database.
3. Updating and maintaining MongoDB database tables.
4. Removing unwanted data.

Tasks to perform:

In order to achieve the above critical business system goals for retail store, follow below steps:

To handle and modify the database without an UI application, you can use mongo.exe file as the command prompt. Here, you can create, edit, delete database, collections, and documents.

Let's list all the databases currently available in MongoDB, before creating a database using mongo.exe application.

To do so:

Create two Collections Order and PlacedOrder from Json given using below commands:

Use below Commands to create new Db and Collections:

- Use Mydb
- `db.Order.insert({"orderId": "ORD33", "Set": {"orderStatus": "Scheduled for Manufacturing"}}, {"orderId": "ORD34", "Set": {"orderStatus": "Placed"}})`
- `db.PlacedOrder.insert {"orderId": "ORD131", "manufacturer": "Honda"}, {"orderId": "ORD116", "manufacturer": "Ferrari"}, {"orderId": "ORD130", "manufacturer": "BMW"})`

Note: Sample data is present in Order.json and PlacedOrder.json .

- Create a new collection named as users and insert a document with userID: 1092, Name: Simon, and Password: abcd123.
- The orderStatus of orderId ORD34 has changed from 'Placed' to 'Scheduled for Manufacturing'. However, it is not reflected in the document. You are responsible for updating it in the order collection.
- You are also asked to find a document with incorrect detail such as "maufacturer": "Ferrari" and remove them, if such document exists.

Marks Distribution:

Task	Points
Task 1.Insert new document	10
Task 2.Update Status	10
Task 3.Find Incorrect document	10
Task 4.Remove incorrect data	10
Task 5.Delete unwanted record	10
TOTAL	50