Project MongoDB

- Create database name Mydb
 - o use Mydb
- Create collections named **Order** and **PlacedOrder**:
 - db.createCollection("Order")
 - db.createCollection("PlacedOrder")
- Insert documents into the collection Order
 - db.Order.insert({"orderId": "ORD31","Set": {"orderStatus": "Scheduled for Manufacturing"}})
 - db.Order.insert({"orderId": "ORD32","Set": {"orderStatus": "Placed"}})
 - db.Order.insert({"orderId": "ORD33","Set": {"orderStatus": "Scheduled for Manufacturing"}})
 - o db.Order.insert({"orderId": "ORD34","Set": {"orderStatus":
 "Placed"}})
- Insert documents into collection PlacedOrder
 - db.PlacedOrder.insert({"orderId": "ORD131","manufacturer": "Honda"})
 - db.PlacedOrder.insert({"orderId": "ORD11","manufacturer": "Ferrai"})
 - db.PlacedOrder.insert({"orderId": "ORD130","manufacturer": "BMW"})
- Create new collection named as Users
 - db.createCollection("Users")

1. Task 1: Insert new document

- a. Insert a document into the collection named "Users"
 - i. db.Users.insert({"userID": 1092, "name": "Simon", "password": "abcd123"})

```
> db.Users.insert({"userID" : 1092,"name" : "Simon", "password" : "abcd123"})
Wr<u>i</u>teResult({    "nInserted" : 1    })
```

- b. To view the documents of the collection "Users"
 - i. db.Users.find()

2. Task 2: Update Status

a. Before updating orderID = ORD34

```
> db.Order.find({"orderId" : "ORD34"},{_id:0})
{ _orderId" : "ORD34", "Set" : { "orderStatus" : "Placed" } }
```

- b. Command to update the status of ORD34 from "Placed" to "Scheduled for Manufacturing"
 - i. db.Order.update({"orderId": "ORD34"}, {\$set:{"Set.orderStatus": "Scheduled for Manufacturing"}})
- c. After updating the status

```
> db.Order.find({"orderId" : "ORD34"},{_id:0})
{    "orderId" : "ORD34",    "Set" : {    "orderStatus" : "Scheduled for Manufacturing" } }
```

3. Task 3: Find Incorrect document

- a. Find the document where "manufacturer": "Ferrai"
 - i. db.PlaceOrder.find({"manufacturer":"Ferrai"},{_id:0})

```
> db.PlacedOrder.find({"manufacturer" : "Ferrai"},{_id:0})
{ "orderId" : "ORD11", "manufacturer" : "Ferrai" }
```

Here, for the "manufacturer": "Ferrai" the orderld is ORD11. However, in the problem statement, the orderID is ORD116.

```
    db.PlacedOrder.insert {"orderId": "ORD131","manufacturer": "Honda"},
{"orderId": "ORD116", "manufacturer": "Ferrai"},
{"orderId": "ORD130", "manufacturer": "BMW"})
```

4. Task 4: Remove incorrect data

- a. Command to remove the incorrect "orderld" of the "manufacturer" : "Ferrai".

Here, we can see in the collection PlaceOrder, the second document "manufacturer": "Ferrai" orderld has been removed. Similarly, we can remove the manufacturer key by keeping the orderld key.

• db.PlacedOrder.update({"manufacturer":"Ferrai"},{\$unset:{"manufacturer":1}})

5. Task 5: Delete unwanted document

- a. Command to delete the 2nd document from the collection PlaceOrder
 - i. db.PlaceOrder.deleteOne({"manufacturer":"Ferrai"})

OR

ii. db.PlacedOrder.deleteOne({"orderId":"ORD11"})

```
> db.PlacedOrder.find().pretty()
{
        "_id" : ObjectId("5eb16fd3a7acd470ef6c0aa3"),
        "orderId" : "ORD131",
        "manufacturer" : "Honda"
}
{
        "_id" : ObjectId("5eb16fd5a7acd470ef6c0aa5"),
        "orderId" : "ORD130",
        "manufacturer" : "BMW"
} _
```

Thus, we would use a.i to delete the document if the orderld has been removed in Task 4 or use a.ii to delete the document if manufacturer has been removed. Hence, we can see in the screenshot the 2nd document has been deleted.

- b. Command to delete the PlacedOrder collection.
 - i. db.PlacedOrder.drop()