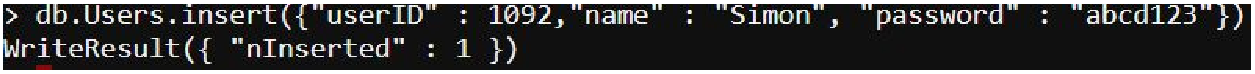
Project MongoDB

- Create database name Mydb
  - 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"}})
  - 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”)

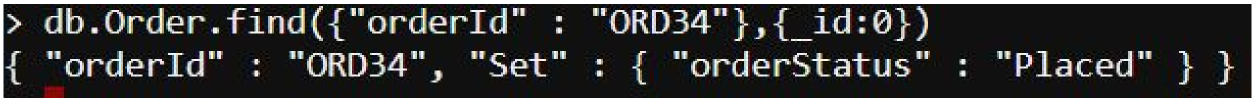
1. Task 1: Insert new document
    a. Insert a document into the collection named “**Users”**
        i. db.Users.insert({“userID” : 1092, “name” : “Simon”, “password” : “abcd123”})



```
> db.Users.insert({"userID" : 1092,"name" : "Simon", "password" : "abcd123"})
WriteResult({ "nInserted" : 1 })
```

2. Task 2: Update Status

    a. Before updating orderID = ORD34

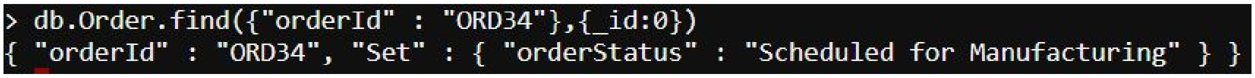


```
> db.Order.find({"orderId" : "ORD34"},{_id:0})
{ "orderId" : "ORD34", "Set" : { "orderStatus" : "Placed" } }
```

    b. Command to update the status of ORD34 from “Placed” to “Scheduled for Manufacturing”

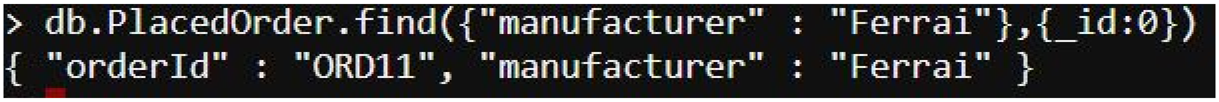
        i. db.Order.update({“orderId”: ”ORD34”}, {$set:{“Set.orderStatus” : “ Scheduled for Manufacturing”}})

    c. After updating the status



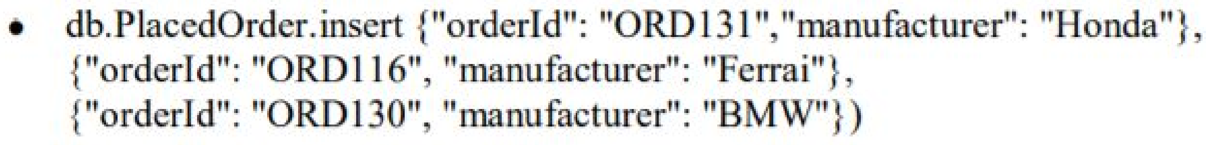
```
> db.Order.find({"orderId" : "ORD34"},{_id:0})
{ "orderId" : "ORD34", "Set" : { "orderStatus" : "Scheduled for Manufacturing" } }
```

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 orderId is ORD11. However, in the problem statement, the orderID is ORD116.

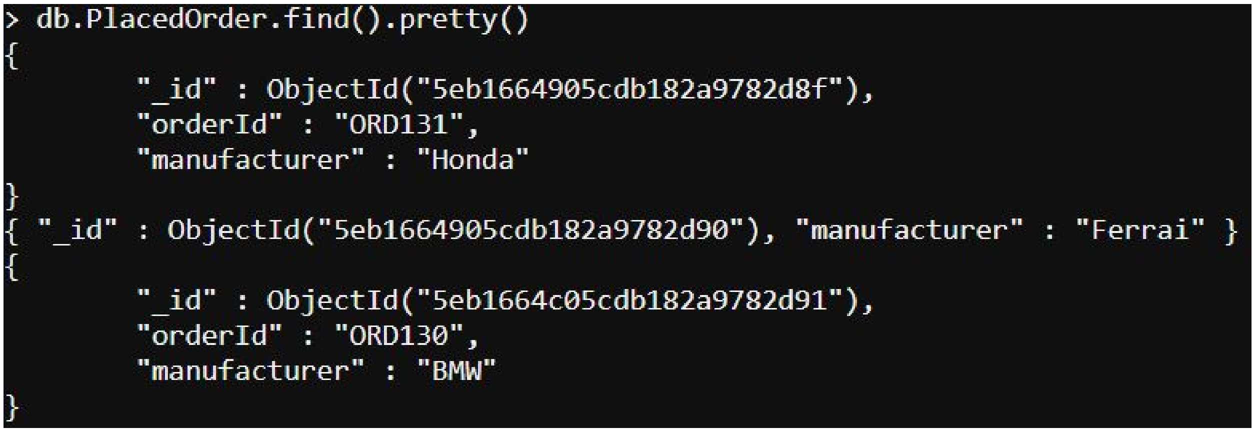


- db.PlacedOrder.insert {"orderId": "ORD131","manufacturer": "Honda"},
  {"orderId": "ORD116", "manufacturer": "Ferrai"},
  {"orderId": "ORD130", "manufacturer": "BMW"})

4. Task 4: Remove incorrect data

a. Command to remove the incorrect “orderId” of the “manufacturer” : “Ferrai”.

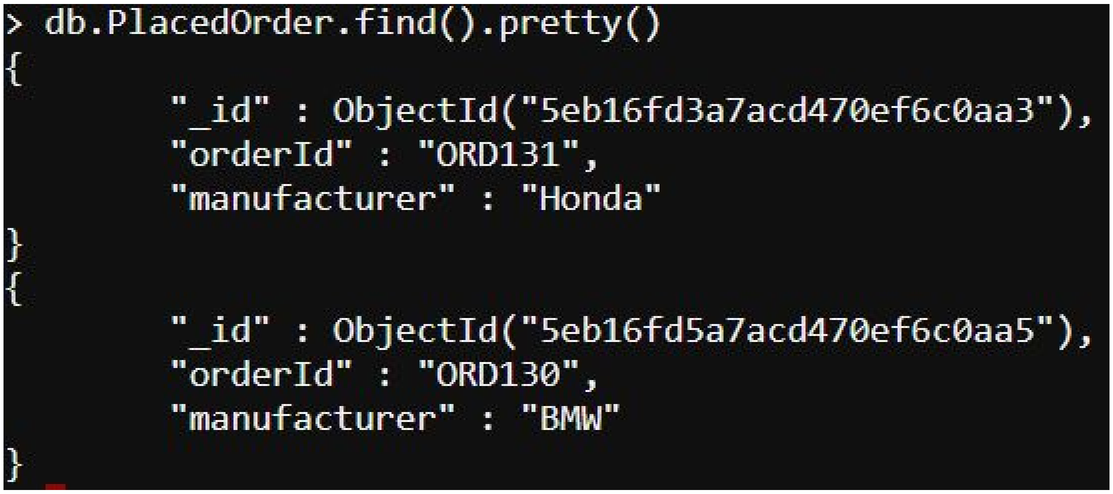
   i. db.PlacedOrder.update({“manufacturer”: “Ferrai”},{$unset:{orderId:1}})



```
> db.PlacedOrder.find().pretty()
{
        "_id" : ObjectId("5eb1664905cdb182a9782d8f"),
        "orderId" : "ORD131",
        "manufacturer" : "Honda"
}
{ "_id" : ObjectId("5eb1664905cdb182a9782d90"), "manufacturer" : "Ferrai" }
{
        "_id" : ObjectId("5eb1664c05cdb182a9782d91"),
        "orderId" : "ORD130",
        "manufacturer" : "BMW"
}
```

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

5. Task 5: Delete unwanted document
    a. Command to delete the 2nd document from the collection PlaceOrder
        i. db.PlaceOrder.deleteOne({“manufacturer”:”Ferrai”})



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

Thus, we can see that the 2nd document has been deleted from the collection PlacedOrder.

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