

# **Pharmacy Drugs Inventory Management**

## **Milestone: Implementation in NoSQL**

### **Group 11**

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**Percentage of Effort Contributed by Student1: 100%**

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**Signature of Student 1: Sai Varun**

**Signature of Student 2: Meenal**

**Submission Date: December 3, 2022**

## Create tables

```
i 1 db.createCollection("stock_details")
i 2 db.createCollection("drugs")
i 3 db.createCollection("warehouse_details")
```

### Result

```
{ "ok" : 1 }
```

## Insert into Drugs

```
db.stock_details.insert({"drug_id": 1, "drug_name": "Drugn1", "manufacturer":
"Manf1", "mrp_price": 3000, "supplier_id": 3});
```

```
db.stock_details.insert({"drug_id": 2, "drug_name": "Drugn2", "manufacturer":
"Manf2", "mrp_price": 75, "supplier_id": 7});
```

```
db.stock_details.insert({"drug_id": 3, "drug_name": "Drugn3", "manufacturer":
"Manf3", "mrp_price": 20000, "supplier_id": 1});
```

```
db.stock_details.insert({"drug_id": 4, "drug_name": "Drugn4", "manufacturer":
"Manf4", "mrp_price": 9900, "supplier_id": 3});
```

```
db.stock_details.insert({"drug_id": 1, "drug_name": "Drugn1", "manufacturer": "Manf1", "mrp_price": 3000,
"supplier_id": 3});
```

### Result

```
WriteResult({ "nInserted" : 1 })
```

## View table Drugs

```
db.drugs.find()
```

### Result

```
{ "_id" : ObjectId("6388c9394996f99edc50576d"), "drug_id" : 1, "drug_name" : "Drugn1", "manufacturer" : "Manf1", "mrp_price" : 3000, "supplier_id" : 3 }
{ "_id" : ObjectId("6388c97c35a8cc0f0fda529b"), "drug_id" : 2, "drug_name" : "Drugn2", "manufacturer" : "Manf2", "mrp_price" : 750, "supplier_id" : 7 }
{ "_id" : ObjectId("6388c9902ee05c459974d47c"), "drug_id" : 3, "drug_name" : "Drugn3", "manufacturer" : "Manf3", "mrp_price" : 20000, "supplier_id" : 1 }
{ "_id" : ObjectId("6388c9af4d221da9ee699760"), "drug_id" : 4, "drug_name" : "Drugn4", "manufacturer" : "Manf4", "mrp_price" : 9900, "supplier_id" : 3 }
```

## Insert into Stock details

```
db.stock_details.insert({"stock_id": 1, "drug_id": 4, "warehouse_id": 3, "stock_left": 204,
"last_ordered_date": new Date("2022-10-25"), "last_updated_date": new Date("2022-11-04"), "mfg_date": new Date("2022-09-04"), "exp_date":new Date("2023-09-04")});
```

```
db.stock_details.insert({"stock_id": 2, "drug_id": 1, "warehouse_id": 5, "stock_left": 25,
"last_ordered_date": new Date("2022-06-25"), "last_updated_date": new Date("2022-07-04"), "mfg_date": new Date("2022-01-11"), "exp_date":new Date("2025-01-11")});
```

```
db.stock_details.insert({"stock_id": 3, "drug_id": 2, "warehouse_id": 11, "stock_left": 913,
"last_ordered_date": new Date("2022-11-25"), "last_updated_date": new Date("2022-09-04"), "mfg_date": new Date("2022-09-11"), "exp_date":new Date("2024-03-11")});
```

## View table Drugs

```
db.stock_details.find()
```

### Result

```
{ "_id" : ObjectId("6388cc21853340ca119da46b"), "stock_id" : 1, "drug_id" : 4, "warehouse_id" : 3, "stock_left" : 204, "last_ordered_date" : ISODate("2022-10-25T00:00:00Z"), "last_updated_date" : ISODate("2022-11-04T00:00:00Z"), "mfg_date" : ISODate("2022-09-04T00:00:00Z"), "exp_date" : ISODate("2023-09-04T00:00:00Z") }
{ "_id" : ObjectId("6388cc642a2dc662d374cd86"), "stock_id" : 2, "drug_id" : 1, "warehouse_id" : 5, "stock_left" : 25, "last_ordered_date" : ISODate("2022-06-25T00:00:00Z"), "last_updated_date" : ISODate("2022-07-04T00:00:00Z"), "mfg_date" : ISODate("2022-01-11T00:00:00Z"), "exp_date" : ISODate("2025-01-11T00:00:00Z") }
{ "_id" : ObjectId("6388cca9effc99eba91d8243"), "stock_id" : 3, "drug_id" : 2, "warehouse_id" : 11, "stock_left" : 913, "last_ordered_date" : ISODate("2022-11-25T00:00:00Z"), "last_updated_date" : ISODate("2022-09-04T00:00:00Z"), "mfg_date" : ISODate("2022-09-11T00:00:00Z"), "exp_date" : ISODate("2024-03-11T00:00:00Z") }
```

## Insert into Warehouse details

```
db.warehouse_details.insert({"warehouse_id":1, "warehouse_name": "Wh1",
"address":"Boston, MA", "phone_no":"8487253922", "zipcode":02218 });
```

```
db.warehouse_details.insert({"warehouse_id":3, "warehouse_name": "Wh3",
"address":"Chestnut Hill, MA", "phone_no":"3475253922", "zipcode":02211 });
```

```
db.warehouse_details.insert({"warehouse_id":5, "warehouse_name": "Wh5",
"address":"Milwaukee, Wisconsin", "phone_no":"3425583922", "zipcode":02318 });
```

```
db.warehouse_details.insert({"warehouse_id":7, "warehouse_name": "Wh7",
"address":"Milwaukee, Wisconsin", "phone_no":"784253922", "zipcode":02311 });
```

```
db.warehouse_details.insert({"warehouse_id":11, "warehouse_name": "Wh11",
"address":"Cambridge MA", "phone_no":"83474253922", "zipcode":02201 });
```

### Result

```
WriteResult({ "nInserted" : 1 })
```

## View table Warehouse details

### Result

```
{ "_id" : ObjectId("6388ce18711b11bc10c2583d"), "warehouse_id" : 1, "warehouse_name" : "Wh1", "address"  
{ "_id" : ObjectId("6388ce18711b11bc10c2583e"), "warehouse_id" : 3, "warehouse_name" : "Wh3", "address"  
{ "_id" : ObjectId("6388ce18711b11bc10c2583f"), "warehouse_id" : 5, "warehouse_name" : "Wh5", "address"  
{ "_id" : ObjectId("6388ce18711b11bc10c25840"), "warehouse_id" : 7, "warehouse_name" : "Wh7", "address"  
{ "_id" : ObjectId("6388ce18711b11bc10c25841"), "warehouse_id" : 11, "warehouse_name" : "Wh11", "address"
```

## Query 1

```
i 14 db.stock_details.find({"stock_left":{"$lte:50}}).pretty()  
15  
16  
17  
18
```

Run

### Result

```
{  
  "_id" : ObjectId("6388cc642a2dc662d374cd86"),  
  "stock_id" : 2,  
  "drug_id" : 1,  
  "warehouse_id" : 5,  
  "stock_left" : 25,  
  "last_ordered_date" : ISODate("2022-06-25T00:00:00Z"),  
  "last_updated_date" : ISODate("2022-07-04T00:00:00Z"),  
  "mfg_date" : ISODate("2022-01-11T00:00:00Z"),  
  "exp_date" : ISODate("2025-01-11T00:00:00Z")  
}
```

## Query 2

```
18  
19 db.warehouse_details.find().count()  
20  
21  
22  
23
```

Run

## Result

5

## Query 3

```
db.stock_details.find({"last_ordered_date":{"$lte:new Date('2022-10-30')}}).pretty()
```

## Result

```
{
  "_id" : ObjectId("6388cc21853340ca119da46b"),
  "stock_id" : 1,
  "drug_id" : 4,
  "warehouse_id" : 3,
  "stock_left" : 204,
  "last_ordered_date" : ISODate("2022-10-25T00:00:00Z"),
  "last_updated_date" : ISODate("2022-11-04T00:00:00Z"),
  "mfg_date" : ISODate("2022-09-04T00:00:00Z"),
  "exp_date" : ISODate("2023-09-04T00:00:00Z")
}
{
  "_id" : ObjectId("6388cc642a2dc662d374cd86"),
  "stock_id" : 2,
  "drug_id" : 1,
  "warehouse_id" : 5,
  "stock_left" : 25,
  "last_ordered_date" : ISODate("2022-06-25T00:00:00Z"),
  "last_updated_date" : ISODate("2022-07-04T00:00:00Z"),
  "mfg_date" : ISODate("2022-01-11T00:00:00Z"),
  "exp_date" : ISODate("2025-01-11T00:00:00Z")
}
```

## Query 4

```

db.createView( "Stockleftinwarehouse", "warehouse_details", [
  {
    $lookup:
      {
        from: "stock_details",
        localField: "warehouse_id",
        foreignField: "warehouse_id",
        as: "warehouselist"
      }
  },
  {
    $project:
      {
        drug_id: 1,
        warehouse_id: 1,
        stock_left: 1,
        address:1,
        phone_no: 1,
        price: "$warehouselist.warehouse_id"
      }
  },
  { $unwind: "$warehouse_id" }
] )

```

```
db.Stockleftinwarehouse.find()
```

### Result

```

d"), "warehouse_id" : 1, "address" : "Boston, MA", "phone_no" : "8487253922", "price" : [ ] }
e"), "warehouse_id" : 3, "address" : "Chestnut Hill, MA", "phone_no" : "3475253922", "price" : [ 3 ] }
f"), "warehouse_id" : 5, "address" : "Milwaukee, Wisconsin", "phone_no" : "3425583922", "price" : [ 5 ]
0"), "warehouse_id" : 7, "address" : "Milwaukee, Wisconsin", "phone_no" : "784253922", "price" : [ ] }
1"), "warehouse_id" : 11, "address" : "Cambridge MA", "phone_no" : "83474253922", "price" : [ 11 ] }

```

## Query 5

```
21  
❏ 22 db.drugs.find({"supplier_id":{"$eq:3}}).pretty()  
23  
24  
25
```

Run

## Result

```
{  
  "_id" : ObjectId("6388c9394996f99edc50576d"),  
  "drug_id" : 1,  
  "drug_name" : "Drugn1",  
  "manufacturer" : "Manf1",  
  "mrp_price" : 3000,  
  "supplier_id" : 3  
}  
{  
  "_id" : ObjectId("6388c9af4d221da9ee699760"),  
  "drug_id" : 4,  
  "drug_name" : "Drugn4",  
  "manufacturer" : "Manf4",  
  "mrp_price" : 9900,  
  "supplier_id" : 3  
}
```