

# NoSQL Assignment 1

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## 1. connect to mongosh

```
Microsoft Windows [Version 10.0.26100.3476]
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C:\Code\mongosh-2.4.2-win32-x64\bin>mongosh
'mongosh' is not recognized as an internal or external command,
operable program or batch file.

C:\Code\mongosh-2.4.2-win32-x64\bin>mongosh
Current Mongosh Log ID: 67e273b8982d099b70b71235
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.4.2
Using MongoDB:      8.0.6
Using Mongosh:      2.4.2

For mongosh info see: https://www.mongodb.com/docs/mongosh-shell/

To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

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The server generated these startup warnings when booting
2025-03-25T14:42:41.471+05:30: Access control is not enabled for the database. Read and write access to data and configuration is
unrestricted
-----
```

**create new database : cdac\_db1**  
**create a new collection : products**

```
cdac_db> use cdac_db1
switched to db cdac_db1
cdac_db1> db
cdac_db1
cdac_db1> show collections

cdac_db1> db.createCollection("products")
{ ok: 1 }
cdac_db1> show collections
products
```

**Insert 10 documents in a collection : products**  
**Each Product document should contain 10 product attributes like**  
**p\_id,**  
**p\_name,**  
**p\_price,**  
**p\_qty,**  
**p\_desc,**  
**p\_mfg\_date,**  
**p\_exp\_date,**  
**p\_weight,**  
**p\_color,**  
**p\_discount**

```

cdac_db1> db.products.insertMany([
...   {
...     p_id: 1,
...     p_name: "Laptop",
...     p_price: 50000,
...     p_qty: 10,
...     p_desc: "High-performance laptop",
...     p_mfg_date: ISODate("2024-01-10"),
...     p_exp_date: null,
...     p_weight: "2kg",
...     p_color: "Silver",
...     p_discount: 10
...   },
...   {
...     p_id: 2,
...     p_name: "Smartphone",
...     p_price: 30000,
...     p_qty: 20,
...     p_desc: "Latest Android smartphone",
...     p_mfg_date: ISODate("2024-02-15"),
...     p_exp_date: null,
...     p_weight: "200g",
...     p_color: "Black",

```

```

...   },
...   {
...     p_id: 2,
...     p_name: "Smartphone",
...     p_price: 30000,
...     p_qty: 20,
...     p_desc: "Latest Android smartphone",
...     p_mfg_date: ISODate("2024-02-15"),
...     p_exp_date: null,
...     p_weight: "200g",
...     p_color: "Black",
...     p_discount: 5
...   },
...   {
...     p_id: 3,
...     p_name: "Headphones",
...     p_price: 2000,
...     p_qty: 30,
...     p_desc: "Wireless noise-canceling headphones",
...     p_mfg_date: ISODate("2023-12-01"),
...     p_exp_date: null,
...     p_weight: "250g",
...     p_color: "Blue",
...     p_discount: 15
...   },
...   {
...     p_id: 4,
...     p_name: "Tablet",
...     p_price: 25000,
...     p_qty: 15,
...     p_desc: "10-inch display tablet",
...     p_mfg_date: ISODate("2024-03-05"),
...     p_exp_date: null,

```

```

...     },
...     {
...         p_id: 10,
...         p_name: "External Hard Drive",
...         p_price: 7000,
...         p_qty: 10,
...         p_desc: "1TB external hard drive",
...         p_mfg_date: ISODate("2023-10-20"),
...         p_exp_date: null,
...         p_weight: "500g",
...         p_color: "Silver",
...         p_discount: 10
...     }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('67e290ba982d099b70b7123c'),
    '1': ObjectId('67e290ba982d099b70b7123d'),
    '2': ObjectId('67e290ba982d099b70b7123e'),
    '3': ObjectId('67e290ba982d099b70b7123f'),
    '4': ObjectId('67e290ba982d099b70b71240'),
    '5': ObjectId('67e290ba982d099b70b71241'),
    '6': ObjectId('67e290ba982d099b70b71242'),
    '7': ObjectId('67e290ba982d099b70b71243'),
    '8': ObjectId('67e290ba982d099b70b71244'),
    '9': ObjectId('67e290ba982d099b70b71245')
  }
}

```

**check the data in the collections**

```

cdac_db1> db.products.find()
[
  {
    _id: ObjectId('67e290ba982d099b70b7123c'),
    p_id: 1,
    p_name: 'Laptop',
    p_price: 50000,
    p_qty: 10,
    p_desc: 'High-performance laptop',
    p_mfg_date: ISODate('2024-01-10T00:00:00.000Z'),
    p_exp_date: null,
    p_weight: '2kg',
    p_color: 'Silver',
    p_discount: 10
  },
  {
    _id: ObjectId('67e290ba982d099b70b7123d'),
    p_id: 2,
    p_name: 'Smartphone',
    p_price: 30000,
    p_qty: 20,
    p_desc: 'Latest Android smartphone',
    p_mfg_date: ISODate('2024-02-15T00:00:00.000Z'),
    p_exp_date: null,
    p_weight: '200g',
    p_color: 'Black',
    p_discount: 5
  },
  {
    _id: ObjectId('67e290ba982d099b70b7123e'),
    p_id: 3,
    p_name: 'Headphones',

```

**find total number of documents present in the collection**

```

cdac_db1> db.products.countDocuments()
10
cdac_db1> db.products.find().pretty()
[
  {
    _id: ObjectId('67e290ba982d099b70b7123c'),
    p_id: 1,
    p_name: 'Laptop',
    p_price: 50000,
    p_qty: 10,
    p_desc: 'High-performance laptop',
    p_mfg_date: ISODate('2024-01-10T00:00:00.000Z'),
    p_exp_date: null,
    p_weight: '2kg',
    p_color: 'Silver',
    p_discount: 10
  },
  {
    _id: ObjectId('67e290ba982d099b70b7123d'),
    p_id: 2,
    p_name: 'Smartphone',
    p_price: 30000,

```

```
cdac_db1> db.products.find({"_id": ObjectId('67e290ba982d099b70b71245')})
[
  {
    _id: ObjectId('67e290ba982d099b70b71245'),
    p_id: 10,
    p_name: 'External Hard Drive',
    p_price: 7000,
    p_qty: 10,
    p_desc: '1TB external hard drive',
    p_mfg_date: ISODate('2023-10-20T00:00:00.000Z'),
    p_exp_date: null,
    p_weight: '500g',
    p_color: 'Silver',
    p_discount: 10
  }
]
```

## Remove the documents and test it

```
cdac_db1> db.products.remove({"_id": ObjectId('67e290ba982d099b70b71245')})
{ acknowledged: true, deletedCount: 1 }
cdac_db1> db.products.find({"_id": ObjectId('67e290ba982d099b70b71245')})

cdac_db1> |
```

```
cdac_db1> db.products.countDocuments({"_id": ObjectId('67e290ba982d099b70b71245')})
0
cdac_db1> db.products.countDocuments()
9
cdac_db1> |
```