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## Lab-BDA C3

### Lab-3 (B)

### Output

The screenshot displays the MongoDB environment, including the shell and the GUI interface. The shell shows the creation of a 'Customer' collection and the insertion of five documents. The GUI shows the results of a find query.

**Shell Command:**

```
use Database
db.createCollection('Customer')

db.Customer.insert({cust_id:1,AccBal:1600,AccType:"Z"})
db.Customer.insert({cust_id:2,AccBal:4000,AccType:"A"})
db.Customer.insert({cust_id:1,AccBal:5000,AccType:"B"})
db.Customer.insert({cust_id:4,AccBal:3500,AccType:"Z"})
db.Customer.insert({cust_id:2,AccBal:6000,AccType:"A"})
db.Customer.find()

db.Customer.find({AccBal:{$gt:1200}, AccType:"Z"})
```

**GUI Output:**

| Key                                      | Value                                | Type     |
|--|--------------------------------------|----------|
| (1) ObjectId("5f842a41a0edc3593cb3cc0d") | { 4 fields }                         | Object   |
| _id                                      | ObjectId("5f842a41a0edc3593cb3cc0d") | Objectid |
| cust_id                                  | 1.0                                  | Double   |
| AccBal                                   | 1600.0                               | Double   |
| AccType                                  | Z                                    | String   |
| (2) ObjectId("5f842a45a0edc3593cb3cc0e") | { 4 fields }                         | Object   |
| (3) ObjectId("5f842a48a0edc3593cb3cc0f") | { 4 fields }                         | Object   |
| (4) ObjectId("5f842a4ba0edc3593cb3cc10") | { 4 fields }                         | Object   |
| (5) ObjectId("5f842a4ea0edc3593cb3cc11") | { 4 fields }                         | Object   |

**Shell Command:**

```
use Database
db.createCollection('Customer')

db.Customer.insert({cust_id:1,AccBal:1600,AccType:"Z"})
db.Customer.insert({cust_id:2,AccBal:4000,AccType:"A"})
db.Customer.insert({cust_id:1,AccBal:5000,AccType:"B"})
db.Customer.insert({cust_id:4,AccBal:3500,AccType:"Z"})
db.Customer.insert({cust_id:2,AccBal:6000,AccType:"A"})
db.Customer.find()

db.Customer.find({AccBal:{$gt:1200}, AccType:"Z"})
```

**GUI Output:**

| Key                                      | Value                                | Type     |
|--|--------------------------------------|----------|
| (1) ObjectId("5f842a41a0edc3593cb3cc0d") | { 4 fields }                         | Object   |
| _id                                      | ObjectId("5f842a41a0edc3593cb3cc0d") | Objectid |
| cust_id                                  | 1.0                                  | Double   |
| AccBal                                   | 1600.0                               | Double   |
| AccType                                  | Z                                    | String   |
| (2) ObjectId("5f842a4ba0edc3593cb3cc10") | { 4 fields }                         | Object   |
| _id                                      | ObjectId("5f842a4ba0edc3593cb3cc10") | Objectid |
| cust_id                                  | 4.0                                  | Double   |
| AccBal                                   | 3500.0                               | Double   |
| AccType                                  | Z                                    | String   |

BDA\_LAB (5)

- System
- College
- Company
- config

Welcome x \*db.Customer.aggregate([ ... x

BDA\_LAB localhost:27017 Database

```

db.Customer.insert((cust_id:2,AccBal:4000,AccType:"A"))
db.Customer.insert((cust_id:1,AccBal:5000,AccType:"B"))
db.Customer.insert((cust_id:4,AccBal:3500,AccType:"Z"))
db.Customer.insert((cust_id:2,AccBal:6000,AccType:"A"))
db.Customer.find()

db.Customer.find({AccBal:{$gt:1200}, AccType:"Z"})

db.Customer.aggregate([
  {
    $group: {
      _id: "$cust_id",
      min_bal: {$min: "$AccBal"},
      max_bal: {$max: "$AccBal"}
    }
  }
])

```

Customer 0.594 sec.

| Key   | Value        | Type   |
|---|--------------|--------|
| <ul style="list-style-type: none"> <li>(1) 2.0           <ul style="list-style-type: none"> <li>min_bal 4000.0</li> <li>max_bal 6000.0</li> </ul> </li> </ul> | { 3 fields } | Object |
| <ul style="list-style-type: none"> <li>(2) 4.0           <ul style="list-style-type: none"> <li>min_bal 3500.0</li> <li>max_bal 3500.0</li> </ul> </li> </ul> | { 3 fields } | Object |
| <ul style="list-style-type: none"> <li>(3) 1.0           <ul style="list-style-type: none"> <li>min_bal 5000.0</li> <li>max_bal 5000.0</li> </ul> </li> </ul> | { 3 fields } | Object |

BDA\_LAB (5)

- System
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Welcome x \*db.Customer.aggregate([ ... x

BDA\_LAB localhost:27017 Database

```

db.Customer.insert((cust_id:2,AccBal:4000,AccType:"A"))
db.Customer.insert((cust_id:1,AccBal:5000,AccType:"B"))
db.Customer.insert((cust_id:4,AccBal:3500,AccType:"Z"))
db.Customer.insert((cust_id:2,AccBal:6000,AccType:"A"))
db.Customer.find()

db.Customer.find({AccBal:{$gt:1200}, AccType:"Z"})

db.Customer.aggregate([
  {
    $group: {
      _id: "$cust_id",

```

Administrator: Command Prompt

```

2020-10-12T15:18:25.175+0530 error parsing command line options: expected argument for flag '/file'
2020-10-12T15:18:25.176+0530 try 'mongoimport --help' for more information

C:\Program Files\MongoDB\Server\4.0\bin>mongoimport -d College -c Students --type csv --file Student.csv --headerline
2020-10-12T15:19:49.046+0530 connected to: localhost
2020-10-12T15:19:49.370+0530 imported 3 documents

C:\Program Files\MongoDB\Server\4.0\bin>mongoexport -d Database -c Customer -f cust_id,AccBal,AccType --type=csv -o Customer.csv
2020-10-12T15:38:24.897+0530 connected to: localhost
2020-10-12T15:38:24.901+0530 exported 5 records

C:\Program Files\MongoDB\Server\4.0\bin>

```

|   | A       | B      | C       | D | E | F |
|---|---------|--------|---------|---|---|---|
| 1 | cust_id | AccBal | AccType |   |   |   |
| 2 | 1       | 1600   | Z       |   |   |   |
| 3 | 2       | 4000   | A       |   |   |   |
| 4 | 1       | 5000   | B       |   |   |   |
| 5 | 4       | 3500   | Z       |   |   |   |
| 6 | 2       | 6000   | A       |   |   |   |

max\_bal 6000.0 Double

