

# MongoDB

# Installation

- <https://docs.mongodb.com/manual/installation/>

Run as a service

# Insert document

```
db.inventory.insertOne(  
  { item: "canvas", qty: 100, tags: ["cotton"], size: { h: 28, w: 35.5, uom: "cm" } }  
)
```

# Display document

```
db.inventory.find( { item: "canvas" } )
```

# Insert many documents

```
db.inventory.insertMany([
  { item: "journal", qty: 25, tags: ["blank", "red"], size: { h: 14, w: 21, uom: "cm" } },
  { item: "mat", qty: 85, tags: ["gray"], size: { h: 27.9, w: 35.5, uom: "cm" } },
  { item: "mousepad", qty: 25, tags: ["gel", "blue"], size: { h: 19, w: 22.85, uom: "cm" } }
])
```

```
db.inventory.find( {} )
```

```
SELECT * FROM inventory
```

```
db.inventory.find( { status: "D" } )
```

```
SELECT * FROM inventory WHERE status = "D"
```

# Specify Conditions Using Query Operators

```
db.inventory.find( { status: { $in: [ "A", "D" ] } } )
```

```
SELECT * FROM inventory WHERE status in ("A", "D")
```

This example retrieves all documents from the inventory collection where status equals either "A" or "D":



# AND conditions

```
db.inventory.find( { status: "A", qty: { $lt: 30 } } )
```

```
SELECT * FROM inventory WHERE status = "A" AND qty < 30
```

# OR conditions

```
db.inventory.find( { $or: [ { status: "A" }, { qty: { $lt: 30 } } ] } )
```

```
SELECT * FROM inventory WHERE status = "A" OR qty < 30
```

The following example retrieves all documents in the collection where the status equals "A" **or** qty is less than (\$lt) 30:

# SQL to MongoDB comparison chart

- <https://docs.mongodb.com/manual/reference/sql-comparison/>