## Basic Mongo DB

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>db</code></td>
<td>Show name of current database</td>
</tr>
<tr>
<td><code>mongod</code></td>
<td>Start database</td>
</tr>
<tr>
<td><code>mongo</code></td>
<td>Connect to database</td>
</tr>
<tr>
<td><code>show dbs</code></td>
<td>Show databases</td>
</tr>
<tr>
<td><code>use db</code></td>
<td>Switch to database <code>db</code></td>
</tr>
<tr>
<td><code>show collections</code></td>
<td>Display current database collections</td>
</tr>
</tbody>
</table>

### Create

- `insert(data)`
  - Insert document(s)
  - Returns write result
- `insertOne(data, options)`
  - Insert one document
- `insertMany(data, options)`
  - Insert many documents
- `insertMany([{}, {}, {}])`  
  - Needs square brackets

### Read

- `db.collection.find()`  
  - Display documents from collection
- `find(filter, options)`  
  - Find all matching documents
- `findOne(filter, options)`  
  - Find first matching document

### Update

- `updateOne(filter, data, options)`  
  - Change one document
- `updateMany(filter, data, options)`  
  - Change many documents
- `replaceOne(filter, data, options)`  
  - Replace document entirely

### Delete

- `deleteOne(filter, options)`  
  - Delete one document
- `deleteMany(filter, options)`  
  - Delete many documents

### Filters (cont)

- `$eq`  
  - Matches values that are equal to a specified value.
- `$gt`  
  - Matches values that are greater than a specified value.
- `$gte`  
  - Matches values that are greater than or equal to a specified value.
- `$in`  
  - Matches any of the values specified in an array
- `$lt`  
  - Matches values that are less than a specified value.
- `$lte`  
  - Matches values that are less than or equal to a specified value.
- `$ne`  
  - Matches all values that are not equal to a specified value.
- `$nin`  
  - Matches none of the values specified in an array.
- `$and`  
  - Performs AND operation
  - Syntax: `{ $and: [ {}, {} ] }`
- `$or`  
  - Performs OR operation
  - Syntax: `{ $or: [ {}, {} ] }`

### Functions

- `.count()`  
  - Counts how many results
- `.sort(filter)`  
  - Sort ascend: 1, descend: -1

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