**ASSIGNMENT 9**

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**Installation steps of MongoDb:**

In Windows:

**I. Download**

The zip file <http://www.mongodb.org/downloads>

II. **Extract**

Extract the zip

Copy the files into a desired location in your machine.

III. **Start** the DB engine.

IV. **Test** the installation and use it.

## Install MongoDB on Ubuntu:

Run the following command to import the MongoDB public GPG key −

sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv 7F0CEB10

Create a /etc/apt/sources.list.d/mongodb.list file using the following command.

echo 'deb http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist 10gen'

| sudo tee /etc/apt/sources.list.d/mongodb.list

Now issue the following command to update the repository −

sudo apt-get update

Next install the MongoDB by using the following command −

apt-get install mongodb-10gen = 2.2.3

In the above installation, 2.2.3 is currently released MongoDB version. Make sure to install the latest version always. Now MongoDB is installed successfully.

## Start MongoDB

sudo service mongodb start

## Stop MongoDB

sudo service mongodb stop

## Restart MongoDB

sudo service mongodb restart

To use MongoDB run the following command.

mongo

This will connect you to running MongoDB instance.

**User Commands**

**Aggregation Commands**

| **Name** | **Description** |
| --- | --- |
| [aggregate](https://docs.mongodb.com/v3.2/reference/command/aggregate/#dbcmd.aggregate) | Performs [aggregation tasks](https://docs.mongodb.com/v3.2/core/aggregation-pipeline/) such as group using the aggregation framework. |
| [count](https://docs.mongodb.com/v3.2/reference/command/count/#dbcmd.count) | Counts the number of documents in a collection. |
| [distinct](https://docs.mongodb.com/v3.2/reference/command/distinct/#dbcmd.distinct) | Displays the distinct values found for a specified key in a collection. |
| [group](https://docs.mongodb.com/v3.2/reference/command/group/#dbcmd.group) | Groups documents in a collection by the specified key and performs simple aggregation. |
| [mapReduce](https://docs.mongodb.com/v3.2/reference/command/mapReduce/#dbcmd.mapReduce) | Performs [map-reduce](https://docs.mongodb.com/v3.2/core/map-reduce/) aggregation for large data sets. |

**Query and Write Operation Commands**

| **Name** | **Description** |
| --- | --- |
| [find](https://docs.mongodb.com/v3.2/reference/command/find/#dbcmd.find) | Selects documents in a collection. |
| [insert](https://docs.mongodb.com/v3.2/reference/command/insert/#dbcmd.insert) | Inserts one or more documents. |
| [update](https://docs.mongodb.com/v3.2/reference/command/update/#dbcmd.update) | Updates one or more documents. |
| [delete](https://docs.mongodb.com/v3.2/reference/command/delete/#dbcmd.delete) | Deletes one or more documents. |
| [findAndModify](https://docs.mongodb.com/v3.2/reference/command/findAndModify/#dbcmd.findAndModify) | Returns and modifies a single document. |
| [getMore](https://docs.mongodb.com/v3.2/reference/command/getMore/#dbcmd.getMore) | Returns batches of documents currently pointed to by the cursor. |
| [getLastError](https://docs.mongodb.com/v3.2/reference/command/getLastError/#dbcmd.getLastError) | Returns the success status of the last operation. |
| [getPrevError](https://docs.mongodb.com/v3.2/reference/command/getPrevError/#dbcmd.getPrevError) | Returns status document containing all errors since the last [resetError](https://docs.mongodb.com/v3.2/reference/command/resetError/" \l "dbcmd.resetError" \o "resetError) command. |
| [resetError](https://docs.mongodb.com/v3.2/reference/command/resetError/#dbcmd.resetError) | Resets the last error status. |
| [eval](https://docs.mongodb.com/v3.2/reference/command/eval/#dbcmd.eval) | Deprecated. Runs a JavaScript function on the database server. |
| [parallelCollectionScan](https://docs.mongodb.com/v3.2/reference/command/parallelCollectionScan/#dbcmd.parallelCollectionScan) | Lets applications use multiple parallel cursors when reading documents from a collection. |

**User Management Commands**

| **Name** | **Description** |
| --- | --- |
| [createUser](https://docs.mongodb.com/v3.2/reference/command/createUser/#dbcmd.createUser) | Creates a new user. |
| [updateUser](https://docs.mongodb.com/v3.2/reference/command/updateUser/#dbcmd.updateUser) | Updates a user’s data. |
| [dropUser](https://docs.mongodb.com/v3.2/reference/command/dropUser/#dbcmd.dropUser) | Removes a single user. |
| [dropAllUsersFromDatabase](https://docs.mongodb.com/v3.2/reference/command/dropAllUsersFromDatabase/#dbcmd.dropAllUsersFromDatabase) | Deletes all users associated with a database. |
| [grantRolesToUser](https://docs.mongodb.com/v3.2/reference/command/grantRolesToUser/#dbcmd.grantRolesToUser) | Grants a role and its privileges to a user. |
| [revokeRolesFromUser](https://docs.mongodb.com/v3.2/reference/command/revokeRolesFromUser/#dbcmd.revokeRolesFromUser) | Removes a role from a user. |
| [usersInfo](https://docs.mongodb.com/v3.2/reference/command/usersInfo/#dbcmd.usersInfo) | Returns information about the specified users. |