**ASSIGNMENT – 2**

**Aim:** Install and configure client and server for MongoDB (Show all commands and necessary steps for installation and configuration).

**Theory:**

**MongoDB:**

MongoDB also provides map-reduce operations to perform aggregation. In general, map-reduce operations have two phases: a map stage that processes each document and emits one or more objects for each input document, and reduce phase that combines the output of the map operation. Optionally, map-reduce can have a finalize stage to make final modifications to the result. Like other aggregation operations, map-reduce can specify a query condition to select the input documents as well as sort and limit the results.

### Installation Steps on Ubuntu:

### Importing the Public Key

Sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv EA312927

### Create source list file mongodb

Echo "deb http://repo.mongodb.org/apt/ubuntu "$(lsb\_release -sc)"/mongodb-org/3.2 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-3.2.list

### Update the repository

Sudo apt-get update

### Install mongodb

Sudo apt-get install -y mongodb-org

### Installation Steps on windows :

To install MongoDB on Windows, first download the latest release of MongoDB from <https://www.mongodb.org/downloads>. Make sure you get correct version of MongoDB depending upon your Windows version. To get your Windows version, open command prompt and execute the following command.

C:\>wmic os get osarchitecture

OSArchitecture

64-bit

C:\>

32-bit versions of MongoDB only support databases smaller than 2GB and suitable only for testing and evaluation purposes.

Now extract your downloaded file to c:\ drive or any other location. Make sure the name of the extracted folder is mongodb-win32-i386-[version] or mongodb-win32-x86\_64-[version]. Here [version] is the version of MongoDB download.

Next, open the command prompt and run the following command.

C:\>move mongodb-win64-\* mongodb

1 dir(s) moved.

C:\>

In case you have extracted the MongoDB at different location, then go to that path by using command **cd FOOLDER/DIR** and now run the above given process.

MongoDB requires a data folder to store its files. The default location for the MongoDB data directory is c:\data\db. So you need to create this folder using the Command Prompt. Execute the following command sequence.

C:\>md data

C:\md data\db

If you have to install the MongoDB at a different location, then you need to specify an alternate path for **\data\db** by setting the path **dbpath** in **mongod.exe**. For the same, issue the following commands.

In the command prompt, navigate to the bin directory present in the MongoDB installation folder. Suppose my installation folder is **D:\set up\mongodb**

C:\Users\XYZ>d:

D:\>cd "set up"

D:\set up>cd mongodb

D:\set up\mongodb>cd bin

D:\set up\mongodb\bin>mongod.exe --dbpath "d:\set up\mongodb\data"

This will show **waiting for connections** message on the console output, which indicates that the mongod.exe process is running successfully.

**Conclusion :** Thus we installed and configured client and server for MySQL and MongoDB