```
 1  1. Windows
 2    1)Visit Download Center(https://www.mongodb.com/download-center/community)
 3      -Installation
        Manual(https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/)
 4
 5    2)Get MongoDB Community Edition
 6      -MongoDB for Windows 64-bit
 7      -To find which version of Windows you are running, enter the following commands in the
        Command Prompt or Powershell:
 8        --wmic os get caption
 9        --wmic os get osarchitecture
10
11          C:\Users\Instructor>wmic os get caption
12          Caption
13          Microsoft Windows 10 Enterprise Evaluation
14
15          C:\Users\Instructor>wmic os get osarchitecture
16          OSArchitecture
17          64-bit
18
19
20      -Download MongoDB for Windows.
21        --mongodb-win32-x86_64-2012plus-4.2.0-signed.msi
22
23    3)Install MongoDB Community Edition
24      -설치타입은 [Complete]로
25      -[Install MongoDB as a Service] check
26      -[Run service as Network Service user] select
27      -Service Name : MongoDB
28      -Data Directory : 기본값(C:\Program Files\MongoDB\Server\4.2\data\)
29      -Log Directory : 기본값(C:\Program Files\MongoDB\Server\4.2\log\)
30      -[Install MongoDB Compass] check
31
32      -설치 위치
33        C:\Program Files\MongoDB\Server\4.2\
34
35      -Component Sets
36        --Server : mongod.exe
37        --Router :  mongos.exe
38        --Client :   mongo.exe
39        --MonitoringTools  : mongostat.exe, mongotop.exe
40        --ImportExportTools : mongodump.exe, mongorestore.exe, mongoexport.exe,
          mongoimport.exe
41        --MiscellaneousTools : bsondump.exe, mongofiles.exe, mongooplog.exe,
          mongoperf.exe
42
43    4)Configuration
44      -Register Windows System variables
45        --%PATH% = ...;C:\Program Files\MongoDB\Server\4.2\bin;
46        --SET PATH
47          Path=...C:\Program Files\MongoDB\Server\3.4\bin;
```

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48
49      -Start MongoDB
50        --To start MongoDB, run mongod.exe. For example, from the Command Prompt:
51        >mongod.exe
52        …
53        2019-08-22T14:30:21.895+0900 I  STORAGE  [initandlisten] exception in
          initAndListen: NonExistentPath: Data directory C:\data\db\ not found., terminating
54        …
55        2019-08-22T14:30:21.896+0900 I  CONTROL  [initandlisten] now exiting
56        2019-08-22T14:30:21.897+0900 I  CONTROL  [initandlisten] shutting down with
          code:100
57        >
58
59      -Set up the MongoDB environment
60        --MongoDB requires a data directory to store all data.
61        --MongoDB's default data directory path is the absolute path \data\db on the drive
          from which you start MongoDB.
62        --Create this folder by running the following command in a Command Prompt:
63          md \data\db
64        --You can specify an alternate path for data files using the --dbpath option to
          mongod.exe,
65          for example:
66          "C:\Program Files\MongoDB\Server\4.2\bin\mongod.exe" --dbpath
            C:/PythonHome\mongodb\data
67
68        In Command Administrator Prompt,
69        C:\PythonHome>md .\data\db
70
71        C:\PythonHome>mongod --dbpath .\data\db
72        …
73        2019-08-22T14:45:50.599+0900 I  CONTROL  [initandlisten] MongoDB starting :
          pid=10936 port=27017 dbpath=.\data\db 64-bit host=DESKTOP-NU7GQVV
74        2019-08-22T14:45:50.599+0900 I  CONTROL  [initandlisten] targetMinOS: Windows
          7/Windows Server 2008 R2
75        2019-08-22T14:45:50.599+0900 I  CONTROL  [initandlisten] db version v4.2.0
76        …
77        2019-08-22T14:45:51.038+0900 I  INDEX    [LogicalSessionCacheRefresh] index
          build: done building index lsidTTLIndex on ns config.system.sessions
78
79
80    5)Connect to MongoDB
81      -To connect to MongoDB through the mongo.exe shell, open another Command Prompt.
82
83      -In Command Prompt,
84        C:\Users\Instructor>mongo
85        MongoDB shell version v4.2.0
86        connecting to:
          mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
87        Implicit session: session { "id" : UUID("cd080c49-a69f-4820-991d-3172723a0990") }
88        MongoDB server version: 4.2.0
89        Welcome to the MongoDB shell.
```

90	For interactive help, type "help".
91	For more comprehensive documentation, see
92	http://docs.mongodb.org/
93	...
94	...
95	>
96	
97	
98	2. 연결 후 테스트
99	1)help
100	> help
101	
102	db.help() help on db methods
103	db.mycoll.help() help on collection methods
104	sh.help() sharding helpers
105	rs.help() replica set helpers
106	help admin administrative help
107	help connect connecting to a db help
108	help keys key shortcuts
109	help misc misc things to know
110	help mr mapreduce
111	
112	show dbs show database names
113	show collections show collections in current database
114	show users show users in current database
115	show profile show most recent system.profile entries with time >= 1ms
116	show logs show the accessible logger names
117	show log [name] prints out the last segment of log in memory, 'global' is default
118	use <db_name> set current database
119	db.foo.find() list objects in collection foo
120	db.foo.find({ a : 1 }) list objects in foo where a == 1
121	it result of the last line evaluated; use to further iterate
122	DBQuery.shellBatchSize = x set default number of items to display on shell
123	exit quit the mongo shell
124	>
125	
126	2)사용가능한 DB보기
127	> show dbs
128	admin 0.000GB
129	config 0.000GB
130	local 0.000GB
131	
132	3)db.help()를 사용하여 데이타베이스에 사용할 수 있는 명령어 보기
133	> db.help()
134	DB methods:
135	db.adminCommand(nameOrDocument) - switches to 'admin' db, and runs command [just calls db.runCommand(...)]
136	db.auth(username, password)
137	db.cloneDatabase(fromhost)
138	db.commandHelp(name) returns the help for the command

139	db.copyDatabase(fromdb, todb, fromhost)
140	db.createCollection(name, { size : ..., capped : ..., max : ... })
141	db.createView(name, viewOn, [{ $operator: {...}}, ...], { viewOptions })
142	db.createUser(userDocument)
143	db.currentOp() displays currently executing operations in the db
144	db.dropDatabase()
145	db.eval() - deprecated
146	db.fsyncLock() flush data to disk and lock server for backups
147	db.fsyncUnlock() unlocks server following a db.fsyncLock()
148	db.getCollection(cname) same as db['cname'] or db.cname
149	db.getCollectionInfos([filter]) - returns a list that contains the names and options of the db's collections
150	db.getCollectionNames()
151	db.getLastError() - just returns the err msg string
152	db.getLastErrorObj() - return full status object
153	db.getLogComponents()
154	db.getMongo() get the server connection object
155	db.getMongo().setSlaveOk() allow queries on a replication slave server
156	db.getName()
157	db.getPrevError()
158	db.getProfilingLevel() - deprecated
159	db.getProfilingStatus() - returns if profiling is on and slow threshold
160	db.getReplicationInfo()
161	db.getSiblingDB(name) get the db at the same server as this one
162	db.getWriteConcern() - returns the write concern used for any operations on this db, inherited from server object if set
163	db.hostInfo() get details about the server's host
164	db.isMaster() check replica primary status
165	db.killOp(opid) kills the current operation in the db
166	db.listCommands() lists all the db commands
167	db.loadServerScripts() loads all the scripts in db.system.js
168	db.logout()
169	db.printCollectionStats()
170	db.printReplicationInfo()
171	db.printShardingStatus()
172	db.printSlaveReplicationInfo()
173	db.dropUser(username)
174	db.repairDatabase()
175	db.resetError()
176	db.runCommand(cmdObj) run a database command. if cmdObj is a string, turns it into { cmdObj : 1 }
177	db.serverStatus()
178	db.setLogLevel(level,<component>)
179	db.setProfilingLevel(level,<slowms>) 0=off 1=slow 2=all
180	db.setWriteConcern(<write concern doc>) - sets the write concern for writes to the db
181	db.unsetWriteConcern(<write concern doc>) - unsets the write concern for writes to the db
182	db.setVerboseShell(flag) display extra information in shell output
183	db.shutdownServer()
184	db.stats()

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185        db.version() current version of the server
186    >
187
188 4)test 데이타베이스 사용하기
189    > use test
190    switched to db test
191
192    >show dbs
193    admin   0.000GB
194    config    0.000GB
195    local     0.000GB
196
197    >db.test.save({a:1})
198    writeResult({"nInserted" :1})
199
200    >show dbs
201    admin 0.000GB
202    config    0.000GB
203    local   0.000GB
204    test    0.000GB
205
206    >db.stats()
207    {
208         "db" : "test",
209         "collections" : 1,
210         "views" : 0,
211         "objects" : 1,
212         "avgObjSize" : 33,
213         "dataSize" : 33,
214         "storageSize" : 16384,
215         "numExtents" : 0,
216         "indexes" : 1,
217         "indexSize" : 16384,
218         ...
219         "ok" : 1
220    }
221
222 5)mongoDB 종료하기
223    > db.shutdownServer()
224    shutdown command only works with the admin database; try 'use admin'
225    > use admin
226    switched to db admin
227    > db.shutdownServer()
228    server should be down...
229    2019-08-22T14:54:54.912+0900 I  NETWORK  [js] DBClientConnection failed to
       receive message from 127.0.0.1:27017 - HostUnreachable: Connection reset by peer
230    server should be down...
231    2019-08-22T14:54:54.916+0900 I  NETWORK  [js] trying reconnect to
       127.0.0.1:27017 failed
232    2019-08-22T14:54:54.927+0900 I  NETWORK  [js] reconnect 127.0.0.1:27017 ok
233    >
```