

Search for mongodb

Open www.mongodb.com

Products – community edition , choose platform windows and download it

For compass

Products- compass

Then install mongodb

Add grepper extension in chrome

Mongodb is nosql database – not only sql

Data in it can be structured or unstructured

MongoDB (document based database) uses json like key value pairs to store data

MongoDB uses collections instead of tables in mysql

Each database contains collections(table in rdbms) , which contain documents(columns in rdbms)

The number of documents in each collection can be different

//how mongodb stores data in json format?

```
{  
  "name": "John",  
  "age": 30  
}
```

NoSql – Not only SQL

It is used to create non relational databases like MongoDB ,Couch DB , Redis , Oracle

Differences between nosql and sql

noSQL	SQL
Non relational	relational
Schema is Dynamic	we have predefined Schema
Keys value based data	table and columns
collections	tables
documents	columns
Joins are not compulsory	Joins are compulsory
Data to object mapping we use ODM	inside SQL we have ORM

Mongoose is ODM

Sequelize is ORM

SQL to NoSQL cheatsheet

SQL

NoSQL

Database

database

Table

collections

Row

documents

Column

fields

Index

index

Joins

\$lookup (for example we have two tables)

Select * from tableName

db.collections.find()

Select * from tableName LIMIT 1

db.collections.findOne()

Create Table employee (name VARCHAR2(20))

db.createCollections("employee")

INSERT INTO employee VALUES(apple)

db.employee.inset({name:"apple"})

```
// School collection

{
  "id": "01"
  "schholname": "Gfgf",
  "students": ["1"]
}

students collection

{
  _id: "1",
  "name": "fdfdfd"
}
```

```

106
107 // School collection
108
109
110 {      "id": "01"
111        "schholname": "Gfgf",
112        "students": ["1"]
113 }
114
115
116 students collection
117
118 {
119     _id: "1",
120     "name": "fdfdfd"
121 }

```

Advantages of database:

Mongodb is document based database

Each collection can have as many as documents to store data

Schema less database .no need to define datatype and length of data

It can store json and bson

Bson – binary json data

Joins but not compulsory

Powerful query language

//commands in MongoShell

mongod -> to start mongosb servers

mongo -> to open test database

show dbs -> to show all databases

use mydb -> to select a particular db

show collections -> to get all collections in a database

db -> to check current database

db.test.help() ->

db.createCollection("abc") -> to create collection

db.collectionName.insert({name:"Apple"})

```
db.abc.find()
```