MongoDB Commands

Comparison Between Excel And MySQL

1 Excel:

- It is software
- It is MS software
- It manage the workbooks
- Workbook data is store in our hard disk
- # Chain:
 - Workbook -> Sheet -> Row -> column
- # Flow:

Excel - Multiple Workbooks

Workbook - Multiple Sheets

Sheet - Multiple Rows

Row - Multiple columns

1.MySQL:

- It is software
- It is Database software RDBMS
- It manages the databases
- Database data is store in our hard disk
- # Chain:
 - Database -> Table -> Row -> column
- # Flow:

MySQL - Multiple Database

Database - Multiple Tables

Table - Multiple Rows

Row - Multiple columns

Link : https://www.codewithharry.com/blogpost/mongodb-cheatsheet/
Database Commands
1. View all databases - show dbs OR show databases # Note: ';' is optional
2.Create a new or switch databases - use dbName # Ex: use Suraj-Blog
3. View current Database - db
4.Delete Database - db.dropDatabase()
Collection Commands

```
# Consider one collection -> comments
   # collection_name = comments
1. Show Collections
   - show collections
2. Create a new collection
 - db.createCollection('collection_name')
 # Ex: db.createCollection('comments')
3. Delete any collection
    - db.collection name.drop()
    # Ex: db.comments.drop()
 # Row Commands #
1. Show all Rows in a Collection
  - db.comments.find()
2. Show all Rows in a Collection (Prettified)
  - db.comments.find().pretty()
  # Note:
    - It shows all rows in beautiful manner
    - In the form of JavaScript object
```

```
3. Find the first row matching the object
  - db.comments.findOne({name: 'Suraj'})
  # Note:
     - After finding the matching row it will stop searching
4. Insert One Row: (single JS object)
   - db.comments.insert({
        'name': 'Suraj',
        'lang': 'JavaScript',
        'year': 5
       })
5. Insert many Rows: (Array of objects)
  - db.comments.insertMany([
      'name': 'Suraj',
      'lang': 'JavaScript',
      'year': 5
      {'name': 'Rohan',
      'lang': 'Python',
      'year': 3
      {'name': 'Lovish',
      'lang': 'Java',
      'year': 4
```

6. Insert a Row with one extra field

- db.comments.insert({

}

1)

```
'name': 'Suraj',
        'lang': 'JavaScript',
        'year': 5,
        'date': new Date()
       })
   # Note:
      - Extra field is 'date'
      - Insert a row without following a schema
      - We can insert an object which don't follow the schema
7. Search any row in collection
  - db.comments.find({lang:'Python'})
             OR
  - db.comments.find({lang:'Python', name: 'Rohan'})
  # Note:
     - By using JavaScript object
     - Just by using one of the field of that object
8. Limit the number of rows in output
     - db.comments.find().limit(2)
     # Note:
        - It will show first two rows
9. Count the number of rows in the output
     - db.comments.find().count() => 5
     - db.comments.find().limit(2).count() => 5 and not 2
            OR
     - db.comments.find({name: 'Suraj'}).count() => 3
```

```
10. Sort the Rows in ascending or descending order on the basis of any
field
    - db.comments.find().sort({year:1}).pretty() => 1 means
ascending
             OR
    - db.comments.find().sort({year:-1}).pretty() => -1 means
descending
11.Update a Row
   1. Update a row if match
     - db.comments.update({name: 'Suraj'},
         'name': 'Suraj',
         'lang': 'JavaScript',
         'year': 50
       })
     # Note: If match then modified but not upserted
   2. Update a row if not match
     - db.comments.update({name: 'Suraj2'},
         'name': 'Suraj',
         'lang': 'JavaScript',
         'year': 50
       })
     # Note: If not match then not modified and not upserted
   3. Update a row if not match
     - db.comments.update({name: 'Shubham'},
```

- If object is not present then no match is there so it will be created and inserted
- By default no insertion only updation
- 12 Delete a Row
 - db.comments.remove({name: 'Suraj'})
 - # Note:
 - It will remove all the rows with matching name field
- 13. Mongodb Update Operators
 - 1. Mongodb Increment Operator

```
- db.comments.update({name: 'Rohan'},
         {$inc:{
           year: 2
          }})
      # Note:
         - Increment the value of field
         - year: 3 -> year: 5
         - field with data type integer values
   2. Mongodb Rename Operator
       - db.comments.update({name: 'Rohan'},
         {$rename:{
            year: 'member'
          }})
       # Note:
         - It updates the actual field
         - It rename the field
         - year -> member
14. Inequality:
    # Less than/Greater than/ Less than or Equal/Greater than or
Equal
    - db.comments.find({year: {$1t: 5}})
    - db.comments.find({year: {$1te: 4}})
    - db.comments.find({year: {$gt: 3}})
```

- db.comments.find({year: {\$gte: 5}})

Done....!!