

# MangoDB Class

#MangoDB Notes

# | MongoDB Projection



# MongoDb Projection

- MongoDB, projection means selecting only the necessary data rather than selecting whole of the data of a document.
- If a document has 5 fields and you need to show only 3, then select only 3 fields from them.
- In MongoDB, when you execute `find()` method, then it displays all fields of a document.
- To limit this, you need to set a list of fields with value 1 or 0.
- 1 is used to show the field while 0 is used to hide the fields.



## Cont...

- Syntax:-
- `db.COLLECTION_NAME.find({}, {KEY: 1})`
  
- Example:-
- `db.student.find({}, {"name": 1, _id: 0})`



# Relational Operator

- Operation :-Equality
- Syntax :-
  - `db.COLLECTION_NAME.find({ <key> : <value> })`
- Example :-
  - `db.employee.find({"salary":5000}).pretty()`
- Explanation :-
  - where salary = 5000



## Cont...

- Operation :- Less Than
- Syntax :-
  - `db.COLLECTION_NAME.find({ <key>: { $lt: <value> } })`
- Example :-
  - `db. employee.find({"salary": { $lt: 5000 } }).pretty()`
- Explanation :-
  - where salary < 5000



## Cont...

- Operation :- Less Than Equals
- Syntax :-
  - `db.COLLECTION_NAME.find({ <key>: { $lte: <value> } })`
- Example :-
  - `db.employee.find({"salary": { $lte: 5000 } }).pretty()`
- Explanation :-
  - where salary  $\leq$  5000



## Cont...

- Operation :- Greater Than
- Syntax :-
  - `db.COLLECTION_NAME.find({ <key>: { $gt: <value> } })`
- Example :-
  - `Db.employee.find({"salary": { $gt: 5000 } }).pretty()`
- Explanation :-
  - where salary > 5000





## Cont...

- Operation :- Greater Than Equals
- Syntax :-
  - `db.COLLECTION_NAME.find({<key>:{$gte:<value>}})`
- Example :-
  - `db.employee.find({"salary":{$gte:5000}}).pretty()`
- Explanation :-
  - where salary  $\geq$  5000



## Cont...

- Operation :- Not Equals
- Syntax :-
  - `db.COLLECTION_NAME.find({ <key>: { $ne: <value> } })`
- Example :-
  - `db.employee.find({"salary": { $ne: 5000 } }).pretty()`
- Explanation :-
  - where salary != 5000



# And Operator

- Syntax :-

```
>db.COLLECTION_NAME.find(  
  {  
    $and: [  
      {key1: value1}, {key2:value2}  
    ]  
  }  
)<pretty()
```



# Or Operator

- Syntax :-

```
>db.COLLECTION_NAME.find(  
  {  
    $or: [  
      {key1: value1}, {key2:value2}  
    ]  
  }  
)<pretty()
```



# Limit() Method

- To limit the records in MongoDB, you need to use `limit()` method.
- The method accepts one number type argument, which is the number of documents that you want to be displayed.



## Cont...

- Syntax :-
- `db.COLLECTION_NAME.find().limit(NUMBER)`
- Example :-
- `db.mycol.find({}, {"name":1, _id:0}).limit(2)`



# Skip() Method

- **skip() method** which also accepts number type argument and is used to skip the number of documents.
- Syntax :-
- `db.COLLECTION_NAME.find().limit(NUMBER).skip(NUMBER)`
- Example :-
- `db.mycol.find({}, {"name":1, _id:0}).limit(1).skip(1)`



# Sort() Method

- To sort documents in MongoDB, you need to use **sort()** method.
- To specify sorting order 1 and -1 are used.
  - 1 is used for ascending order while
  - -1 is used for descending order.
- Syntax:-
- `db.COLLECTION_NAME.find().sort({KEY:1})`



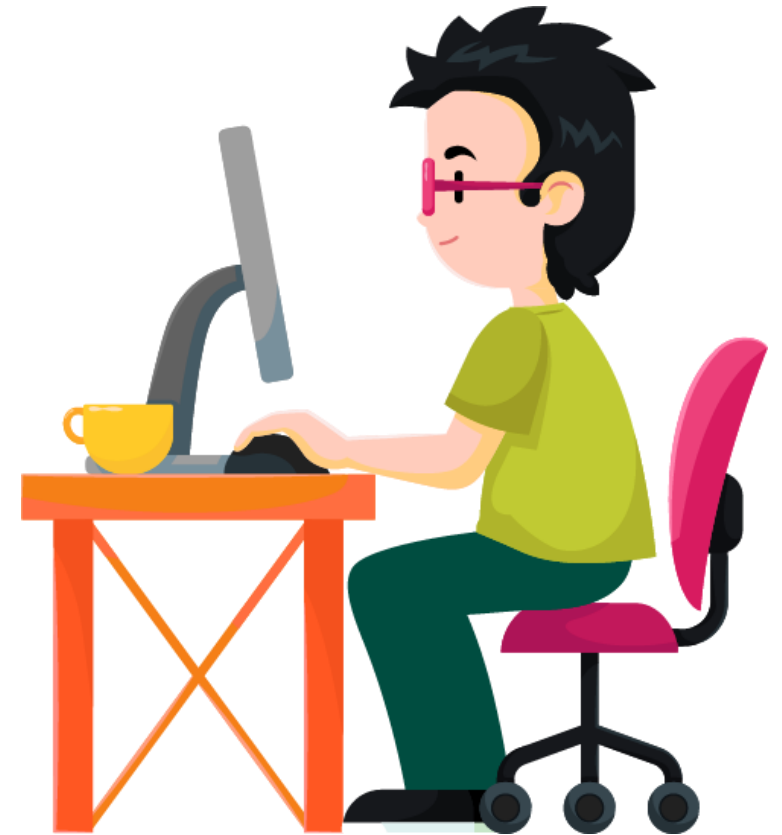


# Example

- `db.mycol.find({}, {"name":1, _id:0}).sort({"name":-1})`



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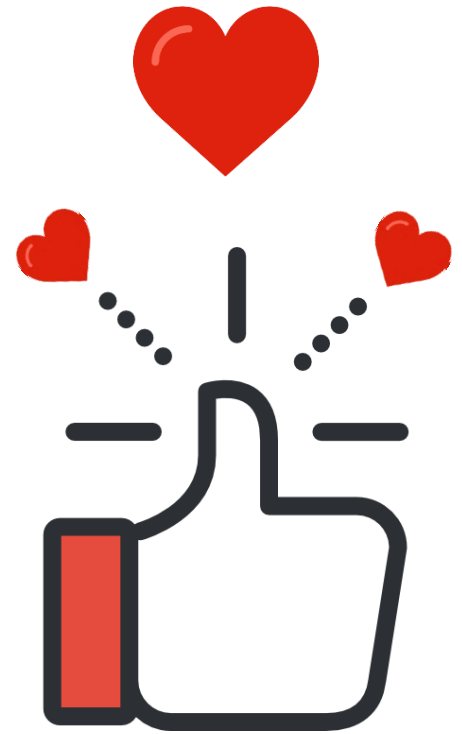
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