

## MongoDB

1



Robo 3T - 1.4

File View Options Window Help

DB\_connect (4)

- System
- config
- productDB

Welcome x \* product.js x

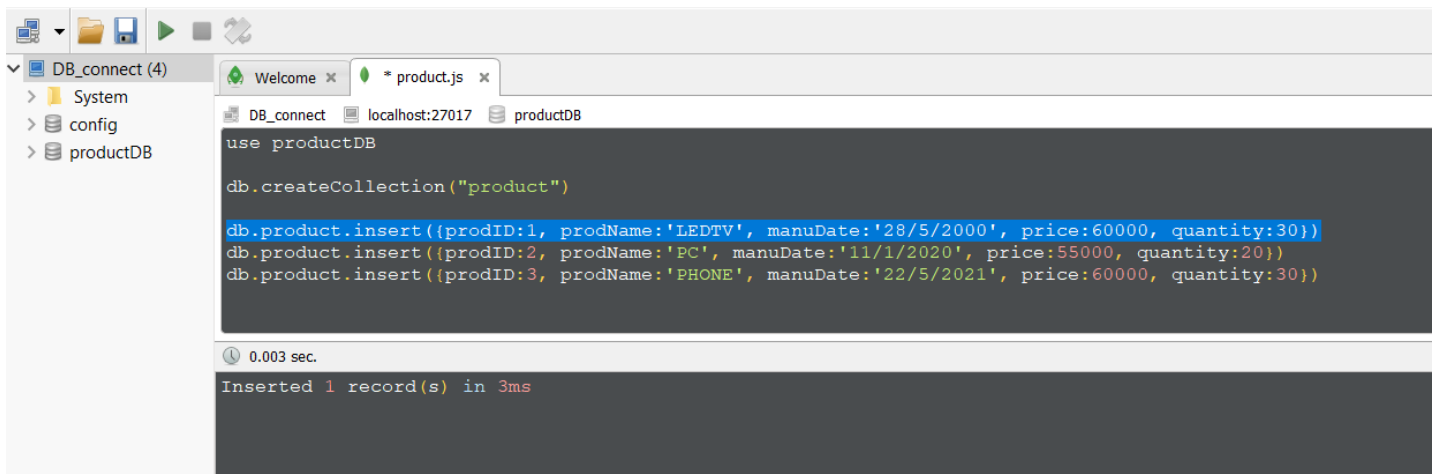
DB\_connect localhost:27017 productDB

```
use productDB
db.createCollection("product")
db.product.insert({prodID:1, prodName:'LEDTV', manuDate:'28/5/2000', price:60000, quantity:30})
```

0.137 sec.

Key	Value	Type
(1)	{ 1 field }	Object
ok	1.0	Double

2



DB\_connect (4)

- System
- config
- productDB

Welcome x \* product.js x

DB\_connect localhost:27017 productDB

```
use productDB
db.createCollection("product")
db.product.insert({prodID:1, prodName:'LEDTV', manuDate:'28/5/2000', price:60000, quantity:30})
db.product.insert({prodID:2, prodName:'PC', manuDate:'11/1/2020', price:55000, quantity:20})
db.product.insert({prodID:3, prodName:'PHONE', manuDate:'22/5/2021', price:60000, quantity:30})
```

0.003 sec.

Inserted 1 record(s) in 3ms

Robo 3T - 1.4

FileViewOptionsWindowHelp

DB\_connect (4)

System

config

productDB

Welcome x

\* product.js x

DB\_connectlocalhost:27017productDB

use productDB

db.createCollection("product")

db.product.insert({prodID:1, prodName:'LEDTV', manuDate:'28/5/2000', price:60000, quantity:30})

db.product.insert({prodID:2, prodName:'PC', manuDate:'11/1/2020', price:55000, quantity:20})

db.product.insert({prodID:3, prodName:'PHONE', manuDate:'22/5/2021', price:60000, quantity:30})

0.002 sec.

Inserted 1 record(s) in 2ms

0.001 sec.

Inserted 1 record(s) in 1ms

3

Robo 3T - 1.4

FileViewOptionsWindowHelp

DB\_connect (4)

System

config

productDB

Welcome x

\* product.js x

DB\_connectlocalhost:27017productDB

use productDB

db.createCollection("product")

//inserting

db.product.insert({prodID:1, prodName:'LEDTV', manuDate:'28/5/2000', price:60000, quantity:30})

db.product.insert({prodID:2, prodName:'PC', manuDate:'11/1/2020', price:55000, quantity:20})

db.product.insert({prodID:3, prodName:'PHONE', manuDate:'22/5/2021', price:60000, quantity:30})

//print

db.product.find().pretty()

product0.044 sec.

Key	Value	Type
(1) ObjectId("60a8ab2d2281ea6af093e6ec")	{ 6 fields }	Object
_id	ObjectId("60a8ab2d2281ea6af093e6ec")	ObjectId
prodID	1.0	Double
prodName	LEDTV	String
manuDate	28/5/2000	String
price	60000.0	Double
quantity	30.0	Double
(2) ObjectId("60a8ab462281ea6af093e6ed")	{ 6 fields }	Object
_id	ObjectId("60a8ab462281ea6af093e6ed")	ObjectId
prodID	2.0	Double
prodName	PC	String
manuDate	11/1/2020	String
price	55000.0	Double
quantity	20.0	Double
(3) ObjectId("60a8ab462281ea6af093e6ee")	{ 6 fields }	Object
_id	ObjectId("60a8ab462281ea6af093e6ee")	ObjectId
prodID	3.0	Double
prodName	PHONE	String
manuDate	22/5/2021	String
price	60000.0	Double
quantity	30.0	Double

Robo 3T - 1.4

File View Options Window Help

DB\_connect (4)

- System
- config
- productDB

Welcome x product.js x

DB\_connect localhost:27017 productDB

```

use productDB
//create collection
//1
db.createCollection("product")

//inserting
//2
db.product.insert({prodID:1, prodName:'LEDTV', manuDate:'28/5/2000', price:60000, quantity:30})
db.product.insert({prodID:2, prodName:'PC', manuDate:'11/1/2020', price:55000, quantity:20})
db.product.insert({prodID:3, prodName:'PHONE', manuDate:'22/5/2021', price:60000, quantity:30})

//print
//3
db.product.find().pretty()

//find
//4
db.product.find({'prodName':'LEDTV', 'quantity':30})
  
```

product 0.008 sec.

Key	Value	Type
(1) ObjectId("60a8ab2d2281ea6af093e6ec")	{ 6 fields }	Object
_id	ObjectId("60a8ab2d2281ea6af093e6ec")	Objectid
prodID	1.0	Double
prodName	LEDTV	String
manuDate	28/5/2000	String
price	60000.0	Double
quantity	30.0	Double

## Cassandra Cql

```

cqlsh> create keyspace company with replication = {'class':'SimpleStrategy', 'replication_factor':1}
... ;
cqlsh> use company;
cqlsh:company> create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primary key(_id, name));
Invalid syntax at line 1, char 23
      create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primary key(_id, name));
      ^
cqlsh:company> create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primary key (_id, name));
Invalid syntax at line 1, char 23
      create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primary key (_id, name));
      ^
cqlsh:company> create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primarykey (_id, name));
Invalid syntax at line 1, char 23
      create table employee(_id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primarykey (_id, name));
      ^
cqlsh:company> create table Projectdetails (projectid int, projectname text, studName text, rating double, duration int, primary key (projectid, projectname));
cqlsh:company> drop table Projectdetails
... ;
cqlsh:company> create table Employee (id int, name text, emp_no int, salary int, dept text, designation text, marital_status text, hobbies set<text>, primary key (id, name));
cqlsh:company> describe Employee

CREATE TABLE company.employee (
  id int,
  name text,
  dept text,
  designation text,
  emp_no int,
  hobbies set<text>,
  marital_status text,
  salary int,
  PRIMARY KEY (id, name)
) WITH CLUSTERING ORDER BY (name ASC)
AND bloom_filter_fp_chance = 0.01
AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND crc_check_chance = 1.0
AND delocal_read_repair_chance = 0.1
AND default_time_to_live = 0
AND gc_grace_seconds = 864000
AND max_index_interval = 2048
AND memtable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair_chance = 0.0
AND speculative_retry = '99PERCENTILE';
  
```

2

```

cqlsh:company> insert into Employee(id, name, dept, designation, emp_no, hobbies, marital_status, salary) values (1, 'Dhanraj','Software', 'junior dev', 101, {'football','bloging','running'}, 'Not married', 90000);
cqlsh:company> select * from Employee;
SyntaxException: line 1:9 mismatched input 'form' expecting K_FROM (select * [form]...)
cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | salary
-----+-----+-----+-----+-----+-----+-----+-----
1 | Dhanraj | Software | junior dev | 101 | {'bloging', 'football', 'running'} | Not married | 90000

(1 rows)
cqlsh:company> insert into Employee(id, name, dept, designation, emp_no, hobbies, marital_status, salary) values (2, 'Raju','Ceo', 'Manager', 202, {'cooking', 'reading'}, 'married', 88000);
cqlsh:company> insert into Employee(id, name, dept, designation, emp_no, hobbies, marital_status, salary) values (4, 'Alex','Sales', 'Manager', 202, {'cooking', 'reading'}, 'married', 111000);
cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | salary
-----+-----+-----+-----+-----+-----+-----+-----
1 | Dhanraj | Software | junior dev | 101 | {'bloging', 'football', 'running'} | Not married | 90000
2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | 88000
4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 111000

(3 rows)

```

3

```

cqlsh:company> select * from Employee where designation='Manager' ALLOW FILTERING;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----
2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | null | 88000
4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 15 | 111000

(2 rows)
cqlsh:company> select * from Employee where designation='Manager' and salary>85000 ALLOW FILTERING;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----
2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | null | 88000
4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 15 | 111000

(2 rows)
cqlsh:company> select * from Employee where designation='Manager' and salary>85000 Order by name desc ALLOW FILTERING;
InvalidRequest: Error from server: code=2200 [Invalid query] message="ORDER BY is only supported when the partition key is restricted by an EQ or an IN."
cqlsh:company> describe Employee

```

4

```

cqlsh:company> alter table Employee add previous_expirence int;
cqlsh:company> cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----
1 | Dhanraj | 1 | Dhanraj | Software | junior dev | 101 | {'bloging', 'football', 'running'} | Not married | null | 90000
2 | Raju | 2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | null | 88000
4 | Alex | 4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 15 | 111000

(3 rows)
cqlsh:company> update Employee set previous_expirence=15 where id=4
...
InvalidRequest: Error from server: code=2200 [Invalid query] message="Some clustering keys are missing: name"
cqlsh:company> update Employee set previous_expirence=15 where id=4 and name='Alex';
cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----
1 | Dhanraj | Software | junior dev | 101 | {'bloging', 'football', 'running'} | Not married | null | 90000
2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | null | 88000
4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 15 | 111000

(3 rows)
cqlsh:company> copy Employee(id, name, dept, designation, emp_no, hobbies, marital_status, previous_expirence, salary) to 'C:\Users\dhanr\Desktop\LABTEST1\write.csv'

```

5

```

cqlsh:company> copy Employee(id, name, dept, designation, emp_no, hobbies, marital_status, previous_expirence, salary) to 'C:\Users\dhanr\Desktop\LABTEST1\write.csv'
Using 11 child processes

Starting copy of company.employee with columns [id, name, dept, designation, emp_no, hobbies, marital_status, previous_expirence, salary].
Processed: 3 rows; Rate: 1 rows/s; Avg. rate: 1 rows/s
3 rows exported to 1 files in 3.079 seconds.
cqlsh:company> truncate Employee;
cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----

(0 rows)
cqlsh:company> copy Employee(id, name, dept, designation, emp_no, hobbies, marital_status, previous_expirence, salary) from 'C:\Users\dhanr\Desktop\LABTEST1\read.csv'
Using 11 child processes

```

export-&gt;truncate-&gt;import

```

cqlsh:company> select * from Employee;

id | name | dept | designation | emp_no | hobbies | marital_status | previous_expirence | salary
-----+-----+-----+-----+-----+-----+-----+-----+-----
1 | Dhanraj | Software | junior dev | 101 | {'bloging', 'football', 'running'} | Not married | null | 90000
2 | Raju | Ceo | Manager | 202 | {'cooking', 'reading'} | married | null | 88000
4 | Alex | Sales | Manager | 202 | {'cooking', 'reading'} | married | 15 | 111000

(3 rows)

```

csv file

[illegible]