

### basic commands

#### rename field

```
db.collection.update({}, {$rename: {"oldname": "new-name"}}, false, true);
```

#### create index

```
db.col.createIndex( { "attr1":1, "attr2":1}, { name: "indexName" } )
```

### mongodump / mongorestore

#### export database

```
dump mongodump --db db_name --out /path_of_your_backup/\date +"%m-%d-%y"
```

#### import database

```
mongorestore --db db_name --drop /path_of_your_backup/01-01-19/db_name/
```

### Conversion

#### convert Long to Float in place

```
db.col.updateMany( {}, [ { $set: { "attr1" : { $trunc: [ "$attr1", 4 ] } } } ] );
```

#### convert Long to Float into new collection

```
db.col.aggregate([ { $set: { "attr1" : { $trunc: [ "$attr1", 4 ] } } }, { $out: "outCollection" } ] );
```

### Data xfer

#### output json from SQL server

```
/opt/mssql-tools/bin/bcp "select * from dbname.db-o.Table FOR JSON PATH" queryout ./output.json -c -S "sql.server.net" -U "sa" -P "passwd"
```

#### remove linefeeds from output

```
pv output.json | tr -d "\n" > output_nolf.json
```

#### import to mongo

```
mongoimport --host mongo.server.com --db db_name --collection col_name --file "output_nolf.json" --jsonArray --numInsertionWorkers=16
```

#### import csv to sql with bcp

```
/opt/mssql-tools/bin/bcp table in csvfile.csv -d database -S "192.168.0.1" -U "sa" -P "password" -q -c -t ,
```

### BSON Types

Type	BSON	Alias
Double	1	double
String	2	string
Object	3	object
Array	4	array
ObjectID	7	objectid
Boolean	8	bool
Date	9	date
Null	10	null
JavaScript	13	javascript
32-Bit Int	16	int
Timestamp	17	timestamp
64-bit Int	18	long
Decimal 128	19	decimal

### System

#### Check Index Creation Progress

```
db.currentOp(true).inprog.forEach(function(op) { if(op.msg!==undefined) print(op.msg) })
```

#### Set Runtime Wired Tiger Cache Size

```
db.getSiblingDB("admin").runCommand({ setParameter: 1, wiredTigerEngineRuntimeConfig: "cache_size=90G" });
```

### Linux Commands

#### time process has been running

```
ps -p {PID-HERE} -o etime
```

#### find pid of process

```
pidof openvpn
```



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Not published yet.

Last updated 6th May, 2020.

Page 1 of 1.

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