

1.

```
test> show collections

test> db.dept.insert(
... {
...   _id: 10,
...   deptno: 10,
...   dname: "ACCOUNTING",
...   loc: "NEW YORK"
... })
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{ acknowledged: true, insertedIds: { '0': 10 } }
test> |
```

2.

```
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{ acknowledged: true, insertedIds: { '0': 10 } }
test> db.dept.insert(
... {
...   _id: 20,
...   deptno: 20,
...   dname: "RESEARCH",
...   loc: "DALLAS"
... })
{ acknowledged: true, insertedIds: { '0': 20 } }
test> db.dept.insert(
... {
...   _id: 40,
...   deptno: 40,
...   dname: "OPERATIONS",
...   loc: "BOSTON"
... })
{ acknowledged: true, insertedIds: { '0': 40 } }
test> |
```

3. Add Department 30, which has the following key/values: _id: 30, deptno: 30, dname: SALES and loc: CHICAGO

```
test> db.dept.insert(
... {
...   _id: 30,
...   deptno: 30,
...   dname: "SALES",
...   loc: "CHICAGO"
... })
{ acknowledged: true, insertedIds: { '0': 30 } }
test> |
```

4. Add the employees for Department 30.

```

test> db.emp.insert( [
... {
...   empno: 7499,
...   ename: 'ALLEN',
...   job: 'SALESMAN',
...   mgr: 7698,
...   hiredate: new Date('1995-02-20'),
...   sal: 1600,
...   COMM: 300,
...   deptno: 30
... },
... {
...   empno: 7698,
...   ename: 'BLAKE',
...   job: 'MANAGER',
...   mgr: 7839,
...   hiredate: new Date('1981-05-01'),
...   sal: 2850,
...   deptno: 30
... },
... {
...   empno: 7900,
...   ename: 'JAMES',
...   job: 'CLERK',
...   mgr: 7698,
...   hiredate: new Date('1981-12-03'),
...   sal: 950,
...   deptno: 30
... },
... {
...   empno: 7654,
...   ename: 'MARTIN',
...   job: 'SALESMAN',
...   mgr: 7698,
...   hiredate: new Date('1993-09-28'),
...   sal: 1250,
...   COMM: 1400,
...   deptno: 30
... },
... {
...   empno: 7844,
...   ename: 'TURNER',
...   job: 'SALESMAN',
...   mgr: 7698,
...   hiredate: new Date('1981-09-08'),
...   sal: 1500,
...   COMM: 0,
...   deptno: 30
... },
... {
...   empno: 7521,
...   ename: 'WARD',
...   job: 'SALESMAN',
...   mgr: 7698,
...   hiredate: new Date('1994-02-22'),
...   sal: 1250,
...   COMM: 0,
...   deptno: 30
... }
... ]
... )
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('65f25dc441d76294fb9f6942'),
    '1': ObjectId('65f25dc441d76294fb9f6943'),
    '2': ObjectId('65f25dc441d76294fb9f6944'),
    '3': ObjectId('65f25dc441d76294fb9f6945'),
    '4': ObjectId('65f25dc441d76294fb9f6946'),
    '5': ObjectId('65f25dc441d76294fb9f6947')
  }
}
test>
test> |

```

5.

```
test> db.emp.find().pretty()
[
  {
    _id: ObjectId('65f25b1741d76294fb9f693b'),
    empno: 7782,
    ename: 'CLARK',
    job: 'MANAGER',
    mgr: 7839,
    hiredate: ISODate('1989-06-09T00:00:00.000Z'),
    sal: 2450,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b1741d76294fb9f693c'),
    empno: 7839,
    ename: 'KING',
    job: 'PRESIDENT',
    hiredate: ISODate('1980-11-17T00:00:00.000Z'),
    sal: 5000,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b1741d76294fb9f693d'),
    empno: 7934,
    ename: 'MILLER',
    job: 'CLERK',
    mgr: 7782,
    hiredate: ISODate('1985-01-23T00:00:00.000Z'),
    sal: 1300,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f693e'),
    empno: 7876,
    ename: 'ADAMS',
    job: 'CLERK',
    mgr: 7788,
    hiredate: ISODate('2024-03-14T02:04:56.741Z'),
    sal: 1100,
    deptno: 20
  }
]
```

6. Find Job CLERK

```
test> db.emp.find({job:"CLERK"})
[
  {
    _id: ObjectId('65f25b1741d76294fb9f693d'),
    empno: 7934,
    ename: 'MILLER',
    job: 'CLERK',
    mgr: 7782,
    hiredate: ISODate('1985-01-23T00:00:00.000Z'),
    sal: 1300,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f693e'),
    empno: 7876,
    ename: 'ADAMS',
    job: 'CLERK',
    mgr: 7788,
    hiredate: ISODate('2024-03-14T02:04:56.741Z'),
    sal: 1100,
    deptno: 20
  },
  {
    _id: ObjectId('65f25dc441d76294fb9f6944'),
    empno: 7900,
    ename: 'JAMES',
    job: 'CLERK',
    mgr: 7698,
    hiredate: ISODate('1981-12-03T00:00:00.000Z'),
    sal: 950,
    deptno: 30
  }
]
```

7. employees earn more than 2400

```

test> db.emp.find({sal: {$gt:2400}})
[
  {
    _id: ObjectId('65f25b1741d76294fb9f693b'),
    empno: 7782,
    ename: 'CLARK',
    job: 'MANAGER',
    mgr: 7839,
    hiredate: ISODate('1989-06-09T00:00:00.000Z'),
    sal: 2450,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b1741d76294fb9f693c'),
    empno: 7839,
    ename: 'KING',
    job: 'PRESIDENT',
    hiredate: ISODate('1980-11-17T00:00:00.000Z'),
    sal: 5000,
    deptno: 10
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f693f'),
    empno: 7902,
    ename: 'FORD',
    job: 'ANALYST',
    mgr: 7566,
    hiredate: ISODate('1991-12-03T00:00:00.000Z'),
    sal: 3000,
    deptno: 20
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f6940'),
    empno: 7066,
    ename: 'JONES',
    job: 'MANAGER',
    mgr: 7839,
    hiredate: ISODate('1991-04-02T00:00:00.000Z'),
    sal: 2975,
    deptno: 20
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f6941'),
    empno: 7788,
    ename: 'SCOTT',
    job: 'ANALYST',
    mgr: 7566,
    hiredate: ISODate('2015-10-16T00:00:00.000Z'),
    sal: 3000,
    deptno: 20
  },
  {
    _id: ObjectId('65f25dc441d76294fb9f6943'),
    empno: 7698,
    ename: 'BLAKE',

```

8. Find employees with commission greater than 100

```
test> db.emp.find({COMM: {$gt:10}}
... )
[
  {
    _id: ObjectId('65f25dc441d76294fb9f6942'),
    empno: 7499,
    ename: 'ALLEN',
    job: 'SALESMAN',
    mgr: 7698,
    hiredate: ISODate('1995-02-20T00:00:00.000Z'),
    sal: 1600,
    COMM: 300,
    deptno: 30
  },
  {
    _id: ObjectId('65f25dc441d76294fb9f6945'),
    empno: 7654,
    ename: 'MARTIN',
    job: 'SALESMAN',
    mgr: 7698,
    hiredate: ISODate('1993-09-28T00:00:00.000Z'),
    sal: 1250,
    COMM: 1400,
    deptno: 30
  }
]
```

9. Find all employees start after 1st January


```
test> db.emp.find({hiredate: {$gt:new Date("2000-01-01")
}})
[
  {
    _id: ObjectId('65f25b4841d76294fb9f693e'),
    empno: 7876,
    ename: 'ADAMS',
    job: 'CLERK',
    mgr: 7788,
    hiredate: ISODate('2024-03-14T02:04:56.741Z'),
    sal: 1100,
    deptno: 20
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f6941'),
    empno: 7788,
    ename: 'SCOTT',
    job: 'ANALYST',
    mgr: 7566,
    hiredate: ISODate('2015-10-16T00:00:00.000Z'),
    sal: 3000,
    deptno: 20
  }
]
```

10.

```
test> db.dept.find({deptno:10})
[ { _id: 10, deptno: 10, dname: 'ACCOUNTING', loc: 'NEW
YORK' } ]
test> db.dept.find({_id:10})
[ { _id: 10, deptno: 10, dname: 'ACCOUNTING', loc: 'NEW
YORK' } ]
test> |
```

11. Update collection data

```
test> db.dept.find({"deptno":40}).pretty()
[ { _id: 40, deptno: 40, dname: 'OPERATIONS', loc: 'WOLV
ERHAMPTON' } ]
```

```

test> db.emp.find({hiredate: {$gt:new Date("2000-01-01")
}})
[
  {
    _id: ObjectId('65f25b4841d76294fb9f693e'),
    empno: 7876,
    ename: 'ADAMS',
    job: 'CLERK',
    mgr: 7788,
    hiredate: ISODate('2024-03-14T02:04:56.741Z'),
    sal: 1100,
    deptno: 20
  },
  {
    _id: ObjectId('65f25b4841d76294fb9f6941'),
    empno: 7788,
    ename: 'SCOTT',
    job: 'ANALYST',
    mgr: 7566,
    hiredate: ISODate('2015-10-16T00:00:00.000Z'),
    sal: 3000,
    deptno: 20
  }
]

```

12. Remove table deptno:40

```

test> db.dept.find({deptno:40})
[ { _id: 40, deptno: 40, dname: 'OPERATIONS', loc: 'WOLV
ERHAMPTON' } ]
test> db.dept.remove({deptno: 40})
DeprecationWarning: Collection.remove() is deprecated. U
se deleteOne, deleteMany, findOneAndDelete, or bulkWrite
.
{ acknowledged: true, deletedCount: 1 }
test> db.dept.find({deptno:40})

```