In this lecture, we will discuss...

- ♦ Find By Criteria
 - 'lt' & 'gt'
 - Evaluations
 - Regex
 - Exists
 - Not
 - Type



Find controls with It and gt operator



♦ Regex – supports regular expression capabilities for pattern matching *strings* in queries.

Will retrieve cities containing X in their names (5 documents only)



♦ Displays cities ending with X



```
db[:zips].find(:city => {:$regex =>
'^X'}).projection({:_id =>
false}).limit(5)
.to_a.each {|r| pp r}
```

♦ Displays cities starting with X



```
 db[:zips].find(:city => {:$regex => '^[A-E]'}).projection({:_id => false})
 .limit(5).to_a.each {|r| pp r}
```

♦ Displays cities that match the regex (A to E)



\$exists

Will check to see of the document exists when the boolean is true

```
♦ db[:zips].find(:city => {:$exists =>
 true}).projection({:_id =>
 false}).limit(3).to_a.each {|r| pp r}
```



\$not

- ♦ \$not performs a logical NOT operation
- Selects the documents that do not match the <operatorexpression>



\$type

- \$type selects the documents where the value of the field is an instance of the specified numeric BSON type
- Handy when dealing with unstructured data where data types are not predictable

```
♦ db[:zips].find({:state=> {:$type => 2}}).first
```



Summary

Find by (Evaluations, Regex, Exists, Not, Type) provides an useful way to fetch/filter data from the collection

What's Next?

- ♦ replace_one

- ♦ delete one
- ♦ delete_many

