Database Design - Exam #2
hy1567@nyu.edu Switch account
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* Required

MongoDB

While applying filters to the find() function, which operator is implicit between criteria?	* 5 points
AND	
OR OR	
O XOR	
O NOT	

How many documents in the 'livestock' collection might be updated with $\,^*$ 5 points the following command?

- one
- () two
- as many as there are documents with the type field set to the value, 'Chickens'
- as many as there are documents with the numToes field set to the value, 4
- none this command will never update any documents

A blank '{ }' object in the criteria argument of a find() function is the same as applying no filters and returns all documents of the collection.

- True
- False

Which kind of documents would be matched by the following query? * 5 points

```
db.people.find({
   age: {
     $gte: 60,
     $lte: 30,
   },
   favoriteBrand: "Adidas",
})
```

- (people who are 60 years or older AND 30 years or younger) AND whose favorite brand is Adidas
- (people who are 60 years or older AND 30 years or younger) OR whose favorite brand is Adidas
- O (people who are 60 years or older OR 30 years or younger) AND whose favorite brand is Adidas
- O (people who are 60 years or older OR 30 years or younger) OR whose favorite brand is Adidas

MongoDB is a document-oriented database with native support for geospatial queries that is most commonly queried using the SQL language.

* 5 points

True

False

Assuming a MongoDB database with a collection named 'students', * 5 points which language/tool might be able to interpret the following query? results = db.students.find({ "major": "Computer Science", }) HTML with CSS Python, using the pymongo module MongoDB's mongo Javascript shell SQL Which of the following two commands return the same result? (Assume * 5 points this collection has multiple documents.) db.toys.first() db.toys.findOne() db.toys.find().limit(1) db.toys.limit(1) db.toys.find() In an aggregation pipeline, the input to all stages is the same as the input * 5 points to the first stage? True False

MongoDB supports only three of the four CRUD operations. * 5 points True False You need to create a collection explicitly before you insert a document * 5 points into it. True False How many documents in the 'toys' collection might be deleted by the * 5 points following command? db.toys.remove({ category: 'doll' The first entry matching the criterion The first two entries matching the criterion All entries matching the criterion None. This is an invalid function.

Assuming a MongoDB database with a collection named 'books', which * 5 points language/tool might be able to interpret the following query?

- HTML with CSS
- Python, using the pymongo module
- ✓ MongoDB's mongo Javascript shell
- SQL

How many documents and which fields does the following set of * 5 points commands return from the 'toys' collection? (Assume there are 'x' documents satisfying the criterion.) Answers are formatted as <number of documents>, < list of fields>.

```
let fields = { category: 1 }
db.toys.find({manufacturer: "Kerry Kruse"}, fields)
   1, ['manufacturer']
```

- x, ['_id', 'manufacturer']
- 1, ['category']
- x, ["manufacturer', 'category']
- x, ['category']
- x, ['_id', 'category']
- 1, ['manufacturer', 'category']

What does the following set of commands do? *

5 points

- Returns name, experience and performance_idx of employees with name = '1', experience greater than or equal to 3 and performance_idx greater than 4.5
- Returns employees with experience greater than or equal to 3 and performance_idx greater than 4.5
- Returns name, experience and performance_idx of employees with experience greater than or equal to 3 and performance_idx greater than 4.5
- Returns the names of employees with experience greater than or equal to 3 and performance_idx greater than 4.5
- Returns names of employees with one name, experience greater than 3 and performance_idx greater than 4.5.

Assuming a MongoDB database with a collection named 'toys', which * 5 points field(s) would be included in the result set from the following query? db.toys.insert({ manufacturer: "Kathe Kruse", category: "doll", sku: "KS944RUR" db.toys.find({ category: "doll" }, { manufacturer: 1 } category manufacturer sku created_at How many stages must the aggregate() function include in the * 5 points "aggregation pipeline"? as many as desired None - there is no aggregation pipeline in MongoDB

Which of the following commands is used to count the number of documents in the 'toys' collection?	* 5 points
db.toys.count()	
db.find.count()	
db.toys.count(find())	
db.toys.find().count()	
None of the above	
What does the "projection" (the second argument in the find() function do?	* 5 points
	* 5 points
do?	* 5 points
do? Modifies the field(s) mentioned in the criteria	* 5 points
do?Modifies the field(s) mentioned in the criteriaFilters which documents in the collection are in the results	* 5 points

What does the following set of commands do? * 5 points let order_by_year = { \$sort: { birthyear: -1} } db.employees.aggregate([order_by_year, name]) Lists employee names from youngest to oldest Lists employee names from oldest to youngest Lists employee names and birth years from oldest to youngest Lists employee names and birth years from youngest to oldest Lists employee names but hides the birth years from youngest to oldest In the following set of commands, the 'fields' variable is used as the * 5 points let fields = { category: 1 }
db.toys.find({manufacturer: "Kerry Kruse"}, fields) Criteria Projection Both None of the others **Back** Next Clear form

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