

Homework 3

Gus Lipkin

Code

```
1 use blogger
2
3 function insertBlog(name,
4                     email,
5                     creationDate,
6                     url,
7                     title,
8                     text,
9                     comments) {
10   db.articles.insertOne({ name: name,
11                           email: email,
12                           creationDate: ISODate(creationDate),
13                           url: url,
14                           title: title,
15                           text: text,
16                           comments: comments } ); }
17
18 insertBlog("Gus Lipkin",
19           "glipkin6737@floridapoly.edu",
20           "1997-08-01",
21           "gus.com",
22           "This is a title",
23           "Blogs are dumb.",
24           [])
25 insertBlog("Nate Fuller",
26           "nfuller7999@floridapoly.edu",
27           "1595-07-05",
28           "nfuller.com",
29           "Blogging in the 16th century",
30           "Look at me! I'm blogging on sheepskin that's being read out in all the
nearby towns by their town criers.",
31           [])
32 insertBlog("Luis Moraguez",
33           "lmoraguez6380@floridapoly.edu",
34           "1888-01-31",
35           "lmoraguez.com",
36           "Does blogging with a graph count as telework?",
```

```

37         "I'm blogging with a telegraph. People just don't seem to understand when
I ask them to like and subscribe.",
38     [])
39 insertBlog("Ahna Cecil",
40     "acecil7688@floridapoly.edu",
41     "1951-07-25",
42     "acecil.com",
43     "Mike TeeVee's got nothing on me",
44     "This new Television thing is super cool. I'm so hip that I decided to
combine the words \"blog\" and \"video\" to create the first ever vlog.",
45     [])
46 insertBlog("Nicole Ely",
47     "nely7539@floridapoly.edu",
48     "2861-02-15",
49     "nely.com",
50     "Today is the tomorrow you were so worried about yesterday",
51     "The future's cool and all but people still think they're hot shit because
they have a blog and it is so annoying!",
52     [])
53
54 // I couldn't get this to run as a function. I'm not totally sure why.
55 /*
56 function insertComment(blogAuthor, cAuthor, cText) {
57     db.articles.updateOne({name: blogAuthor},
58         {$addToSet: {comments: {$each: [
59             {commentAuthor: cAuthor, commentText: cText}
60         ]}}},
61         function(err, num) {});}
62
63 insertComment("Nate Fuller",
64     "Nicole Ely",
65     "omg. This is the best blog ever!")
66 insertComment("Nate Fuller",
67     "Luis Moraguez",
68     "How have I made it this far in life without your sage advice, oh wise
one of the blog?")
69 */
70
71 db.articles.updateOne({name: "Nate Fuller"},
72     {$addToSet: {comments: {$each: [
73         {commentAuthor: "Nicole Ely",
74             commentText: "omg. This is the best blog ever!"}
75     ]}}},
76     function(err, num) {});
77 db.articles.updateOne({name: "Nicole Ely"},
78     {$addToSet: {comments: {$each: [

```

```

79         {commentAuthor: "Luis Moraguez",
80         commentText: "How have I made it this far in life without
your sage advice, oh wise one of the blog?"}
81     ]}}},
82     function(err, num) {});
83 db.articles.updateOne({name: "Ahna Cecil"},
84     {$addToSet: {comments: {$each: [
85     {commentAuthor: "Gus Lipkin",
86     commentText: "Worst. Blog. Ever."}
87     ]}}},
88     function(err, num) {});
89 db.articles.updateOne({name: "Luis Moraguez"},
90     {$addToSet: {comments: {$each: [
91     {commentAuthor: "Gus Lipkin",
92     commentText: "You probably think this is worth a Pulitzer,
huh?"}
93     ]}}},
94     function(err, num) {});
95 db.articles.updateOne({name: "Nate Fuller"},
96     {$addToSet: {comments: {$each: [
97     {commentAuthor: "Gus Lipkin",
98     commentText: "omg. This is the best blog ever! NOT!!"}
99     ]}}},
100     function(err, num) {});
101
102 db.articles.aggregate([
103     {$match: {'comments.commentAuthor': 'Gus Lipkin'}},
104     {$project: {
105         articles: {$filter: {
106             input: '$comments',
107             as: 'comment',
108             cond: {$eq: ['$comment.commentAuthor', 'Gus Lipkin']}}
109         }},
110         title: 1, creationDate: 1, _id: 0
111     }}
112 ])

```

Code and Results

Initial Setup

```
1 use blogger
2 > 'switched to db blogger'
3
4 function insertBlog(name,
5                     email,
6                     creationDate,
7                     url,
8                     title,
9                     text,
10                    comments) {
11   db.articles.insertOne({ name: name,
12                          email: email,
13                          creationDate: ISODate(creationDate),
14                          url: url,
15                          title: title,
16                          text: text,
17                          comments: comments } ); }
18 > [Function: insertBlog]
19
20 insertBlog("Gus Lipkin",
21           "glipkin6737@floridapoly.edu",
22           "1997-08-01",
23           "gus.com",
24           "This is a title",
25           "Blogs are dumb.",
26           [])
```

Before Adding Comments

_id	comments	creationDate	email	name	text	title	url
61576e2e25b679c792eb90c9	[]	1997-08-01T00:00:00.000Z	glipkin6737@floridapoly.edu	Gus Lipkin	Blogs are dumb.	This is a title	gus.com
61576e3d25b679c792eb90ca	[]	1595-07-05T00:00:00.000Z	nfuller7999@floridapoly.edu	Nate Fuller	Look at me! I'm blogging on sheepskin that's being read out in all the nearby towns by their town criers.	Blogging in the 16th century	nfuller.com
61576e4325b679c792eb90cb	[]	1888-01-31T00:00:00.000Z	lmoraguez6380@floridapoly.edu	Luis Moraguez	I'm blogging with a telegraph. People just don't seem to understand when I ask them to like and subscribe.	Does blogging with a graph count as telework?	lmoraguez.com
61576e4a25b679c792eb90cc	[]	1951-07-25T00:00:00.000Z	acecil7688@floridapoly.edu	Ahna Cecil	This new Television thing is super cool. I'm so hip that I decided to combine the words "blog" and "video" to create the first ever vlog.	Mike TeeVee's got nothing on me	acecil.com
61576e4f25b679c792eb90cd	[]	2861-02-15T00:00:00.000Z	nely7539@floridapoly.edu	Nicole Ely	The future's cool and all but people still think they're hot shit because they have a blog and it is so annoying!	Today is the tomorrow you were so worried about yesterday	nely.com

Adding Comments

```

1  db.articles.updateOne({name: "Nate Fuller"},
2      {$addToSet: {comments: {$each: [
3          {commentAuthor: "Nicole Ely",
4              commentText: "omg. This is the best blog ever!"}
5          ]}}},
6      function(err, num) {});
7  > { acknowledged: true,
8      insertedId: null,
9      matchedCount: 1,
10     modifiedCount: 1,
11     upsertedCount: 0 }
12
13 db.articles.updateOne({name: "Nicole Ely"},
14     {$addToSet: {comments: {$each: [
15         {commentAuthor: "Luis Moraguez",
16             commentText: "How have I made it this far in life without your
17 sage advice, oh wise one of the blog?"}
18         ]}}},
19     function(err, num) {});
20 > { acknowledged: true,
21     insertedId: null,
22     matchedCount: 1,
23     modifiedCount: 1,

```

```

23   upsertedCount: 0 }
24
25   db.articles.updateOne({name: "Ahna Cecil"},
26     {$addToSet: {comments: {$each: [
27       {commentAuthor: "Gus Lipkin",
28         commentText: "Worst. Blog. Ever."}
29     ]}}},
30     function(err, num) {});
31 > { acknowledged: true,
32   insertedId: null,
33   matchedCount: 1,
34   modifiedCount: 1,
35   upsertedCount: 0 }
36
37   db.articles.updateOne({name: "Luis Moraguez"},
38     {$addToSet: {comments: {$each: [
39       {commentAuthor: "Gus Lipkin",
40         commentText: "You probably think this is worth a Pulitzer,
41         huh?"}
42     ]}}},
43     function(err, num) {});
44 > { acknowledged: true,
45   insertedId: null,
46   matchedCount: 1,
47   modifiedCount: 1,
48   upsertedCount: 0 }
49
50   db.articles.updateOne({name: "Nate Fuller"},
51     {$addToSet: {comments: {$each: [
52       {commentAuthor: "Gus Lipkin",
53         commentText: "omg. This is the best blog ever! NOT!!"}
54     ]}}},
55     function(err, num) {});
56 > { acknowledged: true,
57   insertedId: null,
58   matchedCount: 1,
59   modifiedCount: 1,
60   upsertedCount: 0 }

```

After Adding Comments

_id	comments	creationDate	email	name	text	title	url
61576e2e25b679c792eb90c9	[]	1997-08-01T00:00:00.000Z	guslipkin6737@floridapolyny.edu	Gus Lipkin	Blogs are dumb.	This is a title	gus.com
61576e3d25b679c792eb90ca	[{"commentAuthor":"Nicole Ely", "commentText":"omg. This is the best blog ever!"}, {"commentAuthor":"Gus Lipkin", "commentText":"omg. This is the best blog ever! NOT!!"}]	1595-07-05T00:00:00.000Z	nfuller7999@floridapolyny.edu	Nate Fuller	Look at me! I'm blogging on sheepskin that's being read out in all the nearby towns by their town criers.	Blogging in the 16th century	nfuller.com
61576e4325b679c792eb90cb	[{"commentAuthor":"Gus Lipkin", "commentText":"You probably think this is worth a Pulitzer, huh?"}]	1888-01-31T00:00:00.000Z	lmoragomez6380@floridapolyny.edu	Luis Moraguez	I'm blogging with a telegraph. People just don't seem to understand when I ask them to like and subscribe.	Does blogging with a graph count as telework?	lmoraguez.com
61576e4a25b679c792eb90cc	[{"commentAuthor":"Gus Lipkin", "commentText":"Worst. Blog. Ever."}]	1951-07-25T00:00:00.000Z	acecil7688@floridapolyny.edu	Ahna Cecil	This new Television thing is super cool. I'm so hip that I decided to combine the words "blog" and "video" to create the first ever vlog.	Mike TeeVee's got nothing on me	acecil.com
61576e4f25b679c792eb90cd	[{"commentAuthor":"Luis Moraguez", "commentText":"How have I made it this far in life without your sage advice, oh wise one of the blog?"}]	2861-02-15T00:00:00.000Z	nely7539@floridapolyny.edu	Nicole Ely	The future's cool and all but people still think they're hot shit because they have a blog and it is so annoying!	Today is the tomorrow you were so worried about yesterday	nely.com

Querying for Comments

```

1 db.articles.aggregate([
2   {$match: {'comments.commentAuthor': 'Gus Lipkin'}},
3   {$project: {
4     articles: {$filter: {
5       input: '$comments',
6       as: 'comment',
7       cond: {$eq: ['$comment.commentAuthor', 'Gus Lipkin']}
8     }},
9     title: 1, creationDate: 1, _id: 0

```

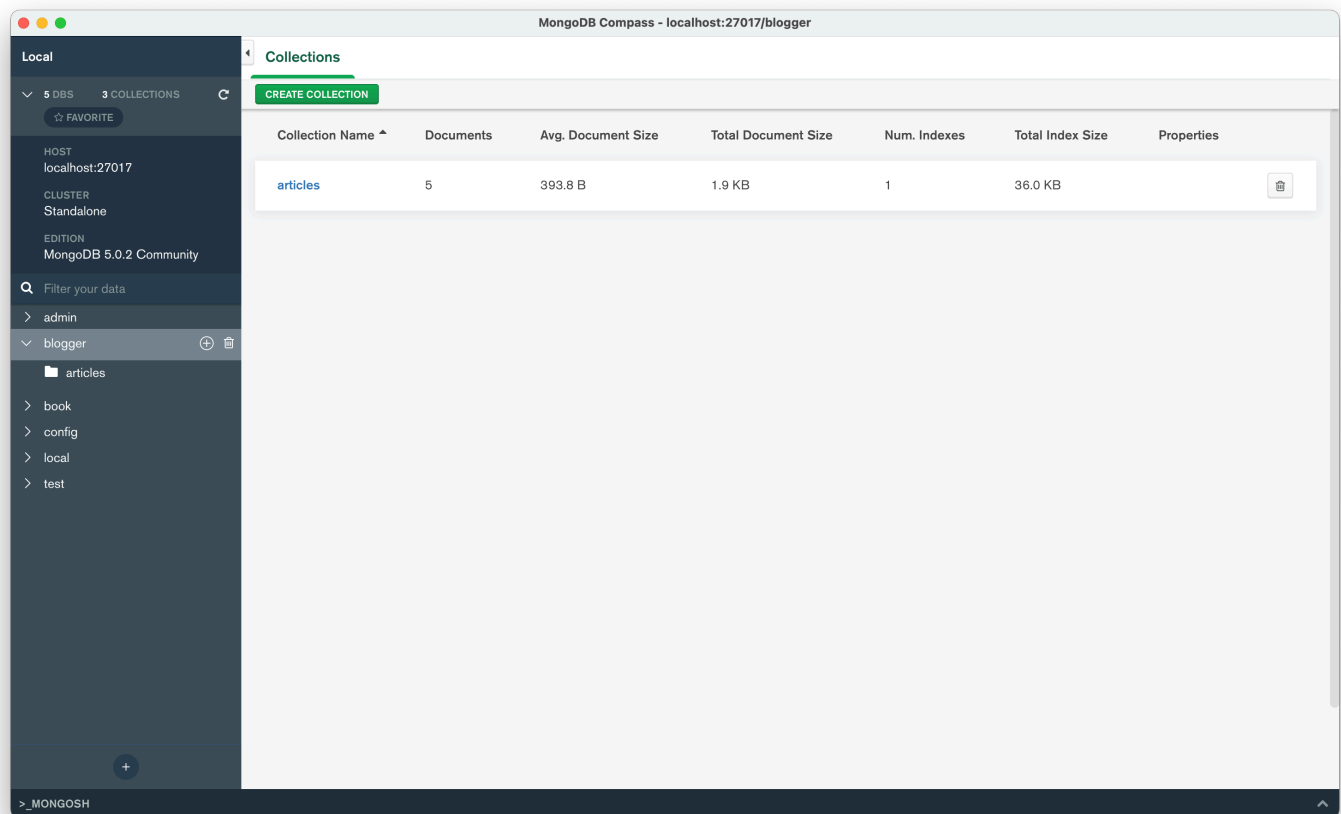
```

10     }}
11 })
12 > { creationDate: 1595-07-05T00:00:00.000Z,
13     title: 'Blogging in the 16th century',
14     articles:
15     [ { commentAuthor: 'Gus Lipkin',
16         commentText: 'omg. This is the best blog ever! NOT!!' } ] }
17 { creationDate: 1888-01-31T00:00:00.000Z,
18     title: 'Does blogging with a graph count as telework?',
19     articles:
20     [ { commentAuthor: 'Gus Lipkin',
21         commentText: 'You probably think this is worth a Pulitzer, huh?' } ] }
22 { creationDate: 1951-07-25T00:00:00.000Z,
23     title: 'Mike TeeVee\'s got nothing on me',
24     articles:
25     [ { commentAuthor: 'Gus Lipkin',
26         commentText: 'Worst. Blog. Ever.' } ] }

```

Screenshots

Collections



Documents

MongoDB Compass - localhost:27017/blogger.articles

blogger.articles

Documents

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

5

TOTAL SIZE

1.4KB

AVG. SIZE

293B

1

TOTAL SIZE

20.0KB

AVG. SIZE

20.0KB

filter

{ field: 'value' }

options

find

reset

refresh

add data

view

list

table

grid

displaying documents 1 - 5 of 5

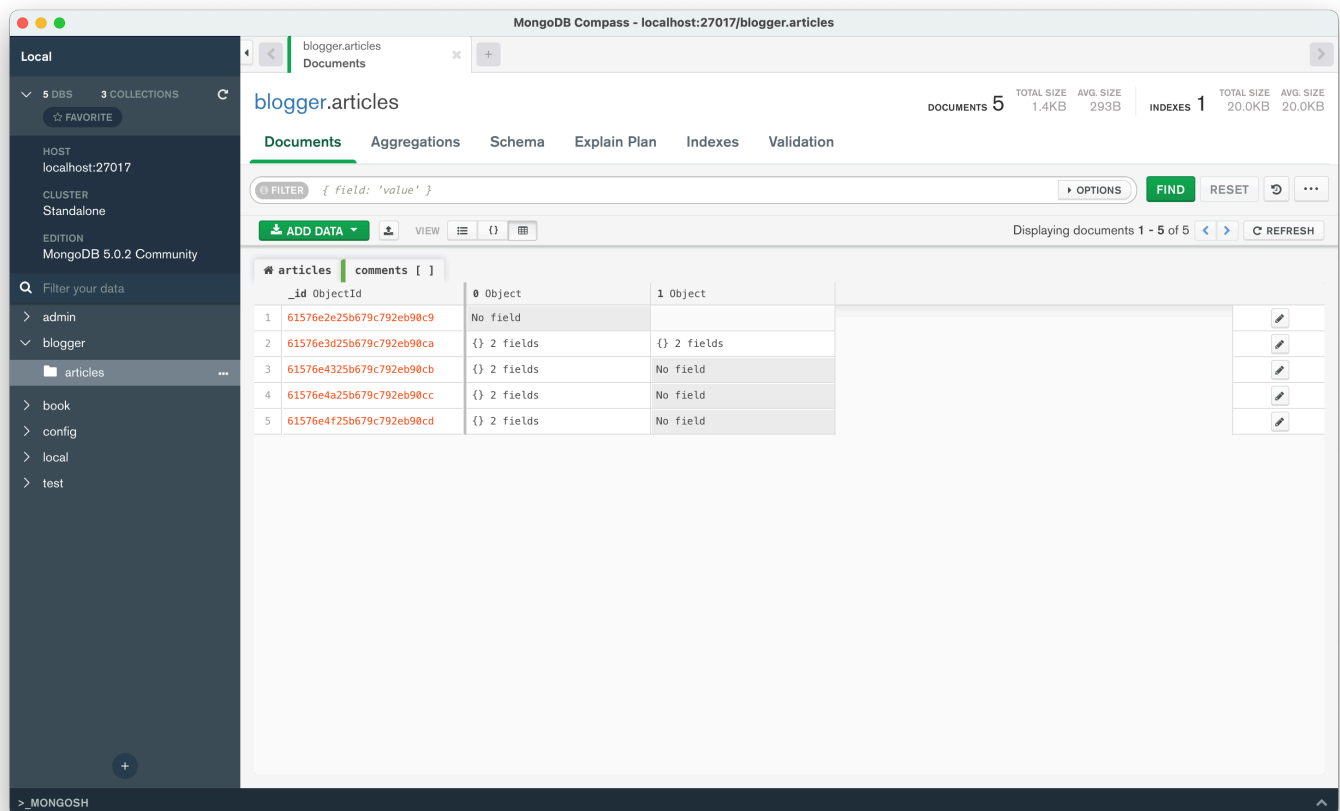
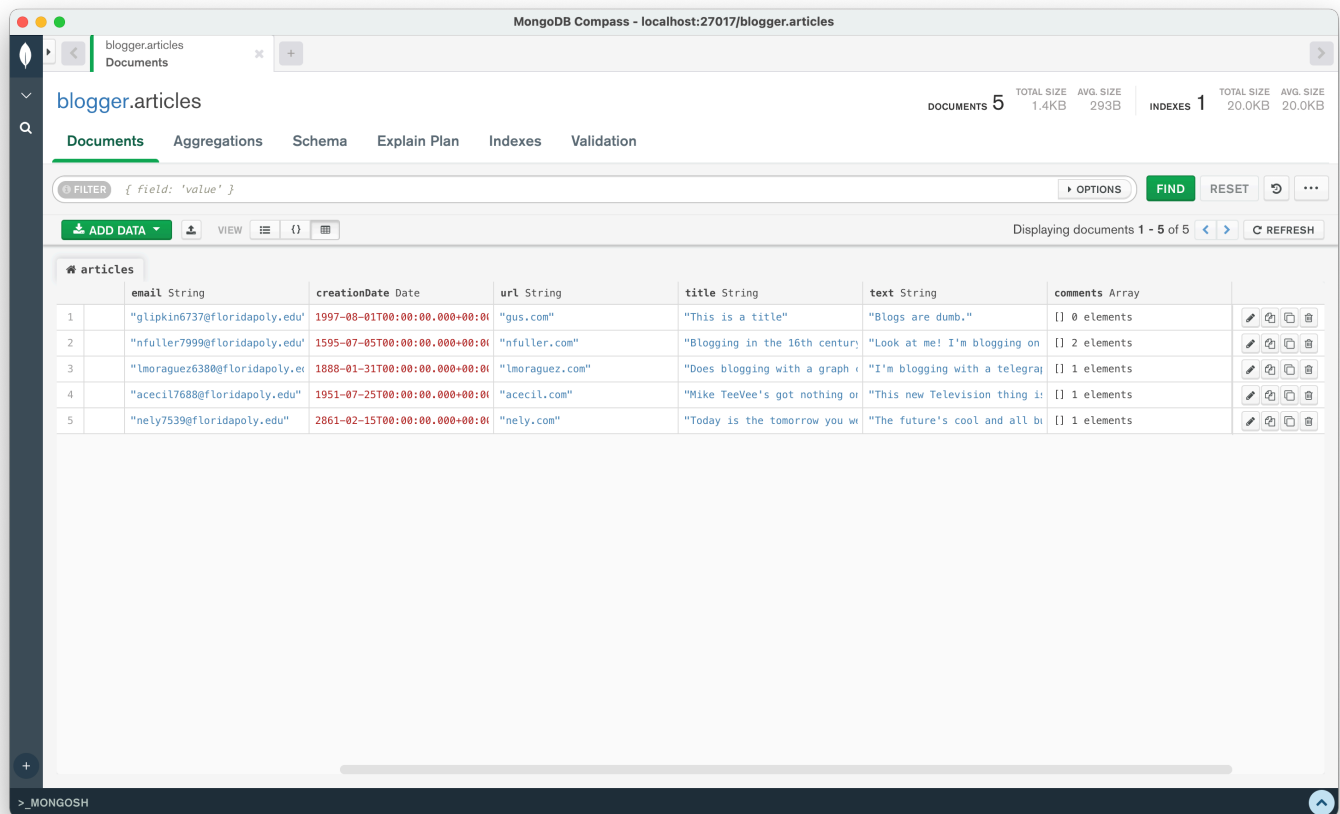
refresh

articles

	_id ObjectId	name String	email String	creationDate Date	url String	title String	text :
1	61576e2e25b679c792eb90c9	"Gus Lipkin"	"glipkin6737@floridapoly.edu"	1997-08-01T00:00:00.000+00:00	"gus.com"	"This is a title"	"Blogs"
2	61576e3d25b679c792eb90ca	"Nate Fuller"	"nfuller7999@floridapoly.edu"	1595-07-05T00:00:00.000+00:00	"nfuller.com"	"Blogging in the 16th century"	"Look"
3	61576e4325b679c792eb90cb	"Luis Moraguez"	"lmoraguez6380@floridapoly.edu"	1888-01-31T00:00:00.000+00:00	"lmoraguez.com"	"Does blogging with a graph"	"I'm t"
4	61576e4a25b679c792eb90cc	"Ahna Cecil"	"acecil7680@floridapoly.edu"	1951-07-25T00:00:00.000+00:00	"acecil.com"	"Mike TeeVee's got nothing on"	"This"
5	61576e4f25b679c792eb90cd	"Nicole Ely"	"nely7539@floridapoly.edu"	2861-02-15T00:00:00.000+00:00	"nely.com"	"Today is the tomorrow you w"	"The f"

> _MONGOSH

up



Local

5 DBS3 COLLECTIONS

☆ FAVORITE

HOST
localhost:27017

CLUSTER
Standalone

EDITION
MongoDB 5.0.2 Community

Filter your data

> admin

> blogger

> articles

> book

> config

> local

> test

MongoDB Compass - localhost:27017/blogger.articles

blogger.articlesDocuments

blogger.articles

DOCUMENTS 5TOTAL SIZE 1.4KB AVG. SIZE 293BINDEXES 1TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

DocumentsAggregationsSchemaExplain PlanIndexesValidation

FILTER { field: 'value' }

OPTIONS

FIND

RESET

ADD DATA

VIEW

Displaying documents 1 - 5 of 5

REFRESH

articles

comments []

comments.0 { }

	_id ObjectId	commentAuthor String	commentText String	
1	61576e2e25b679c792eb90c9			
2	61576e3d25b679c792eb90ca	"Nicole Ely"	"omg. This is the best blog "	
3	61576e4325b679c792eb90cb	"Gus Lipkin"	"You probably think this is "	
4	61576e4a25b679c792eb90cc	"Gus Lipkin"	"Worst. Blog. Ever."	
5	61576e4f25b679c792eb90cd	"Luis Moraguez"	"How have I made it this far	

> _MONGOSH