Amber Foster

April 19, 2022

8-1 Assignment

## **DATA AGGREGATION PIPELINE**

### 1. CREATING THE DATABASE:

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*** Starting MongoDB (MoUTH): Port-s8917 Unix Socketv/tap/mongodb-5917. sock Dir#/mone/amberforster3 shallogs/vist-noauth

*** Starting MongoDB (MoUTH): Port-s8917 Unix Socketv/tap/mongodb-1922-04-197113130-565-900 Connected to mongodb//localloss:19917/

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```

# a. db.research.find({"name" : "AdventNet"})

```
c b. research, find(('name': "AdventHet'))
(". di 'Objectifd'S2ed'F7-dabb8ded'529768b'), "name': "AdventHet', "persalink': "abc3", "crunchbase_url': "http://www.crunchbase_com/company/adventnet", "homepage_url': "http://adventnet.com", "blog_red url': "twitter_username: "manageengine", "category_code': 'enterprise', "number_of_employees': 660, "founded_year': 1996, "deadpooled_year': 2, "tag_list': ""alias_list': "2do http://www.crunchbase_com/company/adventnet': "weat-date': "wed for_assets': "pedadventnet.com", "phone number': "259-294-9960", "description': "Server Management Software', "created at': 1500ate('2007-08-25719)*24272"), "updated at': "wed for_assets': "pedadventnet is now as href*'/company/zoho-manageengine\" title=\"random' tele\"notfollow\">zoho ManageEngine\">zoho ManageEngine\
```

. db.research.find({"founded\_year" : 1996},{"name" : 1}).limit(10)

```
db.research.find(("founded year":1996),("name":1)).limit(18)
("id": 0bjectId("52cdef7c4bab80df729780b"), "name": "AdventNet")
("id": 0bjectId("52cdef7c4bab80df72978c4"), "name": "RegOnline")
("id": 0bjectId("52cdef7c4bab80df72978c4"), "name": "LivebNord")
("id": 0bjectId("52cdef7c4bab80df72978c4"), "name": "LivebNord")
("id": 0bjectId("52cdef7c4bab80df72978ca"), "name": "LivebNore")
("id": 0bjectId("52cdef7c4bab80df7298082"), "name": "TheStreet")
("id": 0bjectId("52cdef7c4bab80df72980e1"), "name": "TheStreet")
("id": 0bjectId("52cdef7c4bab80df72980e1"), "name": "TheStreet")
("id": 0bjectId("52cdef7c4bab80df72980e1"), "name": "TheStreet")
("id": 0bjectId("52cdef7c4bab80df72980e1"), "name": "River")
("id": 0bjectId("52cdef7c4bab80df72980e1"), "name": "River")
```

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### 2. USING MongoDB QUERIES:

a. List only the first 20 names of companies founded after the year 2010, ordered alphabetically.

```
div.research.find("founded year":("Sgt":2010)), ("name":1)), sort(("name":1)).limit(20)
("_id" objectid("Szcdet/Cababbd675399273), "name" "Advoition")
("_id" objectid("Szcdet/Cababbd675399263), "name" "Advoition")
("_id" objectid("Szcdet/Cababbd6753993681), "name" "Advoition")
("_id" objectid("Szcdet/Cababbd6753993681), "name" "Advoition")
("_id" objectid("Szcdet/Cababbd6753993681), "name" "Blung Easy")
("_id" objectid("Szcdet/Cababbd6752994871), "name" "Blung Easy")
("_id" objectid("Szcdet/Cababbd6752993871), "name" "Corfeine")
("_id" objectid("Szcdet/Cababbd675293881), "name" "Clowdy")
("_id" objectid("Szcdet/Cababbd675293881), "name" "CopareChecker")
("_id" objectid("Szcdet/Cababbd675293881), "name" "CopareChecker")
("_id" objectid("Szcdet/Cababbd6752993871), "name" "CopareChecker")
("_id" objectid("Szcdet/Cababbd6752993871), "name" "CopareChecker")
("_id" objectid("Szcdet/Cababbbd6752993871), "name" "CopareChecker")
("_id" objectid("Szcdet/Cababbbd675299951), "name" "EaseL")
("_id" objectid("Szcdet/Cababbbd675299951), "name" "FamilyDen")
("_id" objectid("Szcdet/Cababbbd675299962), "name" "FamilyDen")
("_id" objectid("Szcdet/Cababbbd6752999631), "name" "Fixya")
("_id" objectid("Szcdet/Cababbbd6752998913), "name" "Fixya")
("_id" objectid("Szcdet/Cababbbd6752998913), "name" "Fixya")
("_id" objectid("Szcdet/Cababbbd6752998913), "name" "Fixya")
```

b. List only the first 20 names of companies with offices in either California or Texas, ordered by the number of employees & sorted large to small.

```
b. fb.research.find({sor:{{"offices.state_code":"CA"}, {"offices.state_code":"TA"}}, {"name":1}\.sort({"number_of_employees":-1}\.limit(20)
{ ".id": 0bjectId("52cdef7c4bab8bd575295893"), "name": "FayPal" }
{ ".id": 0bjectId("52cdef7d4bab8bd5752988934"), "name": "Sansung Electronics" }
{ ".id": 0bjectId("52cdef7d4bab8bd575298893"), "name": "Sansung Electronics" }
{ ".id": 0bjectId("52cdef7d4bab8bd575298381"), "name": "Flextronics International" }
{ ".id": 0bjectId("52cdef7d4bab8bd572993831"), "name": "Flextronics International" }
{ ".id": 0bjectId("52cdef7d4bab8bd57299185"), "name": "Sorty")
{ ".id": 0bjectId("52cdef7d4bab8bd57299687"), "name": "Sorty")
{ ".id": 0bjectId("52cdef7d4bab8bd57299681"), "name": "Apple" }
{ ".id": 0bjectId("52cdef7c4bab8bd572993839"), "name": "Apple" }
{ ".id": 0bjectId("52cdef7c4bab8bd57299989"), "name": "ExemPhoble }
{ ".id": 0bjectId("52cdef7c4bab8bd57299989"), "name": "ExemPhoble }
{ ".id": 0bjectId("52cdef7c4bab8bd57299989"), "name": "ExemPhoble }
{ ".id": 0bjectId("52cdef7d4bab8bd57299989"), "name": "ExemPhoble }
{ ".id": 0bjectId("52cdef7d4bab8bd57299899"), "name": "Class")
{ ".id": 0bjectId("52cdef7d4bab8bd57297d2"), "name": "ExemInstruments"}
{ ".id": 0bjectId("52cdef7d4bab8bd57297d2"), "name": "ExemInstruments")
{ ".id": 0bjectId("52cdef7d4bab8bd57299809"), "name": "Flextronia", "ExemInstruments")
{
```

## DESIGN & IMPLEMENT A MongoDB AGGREGATION PIPELINE:

#### **EXIT & STOP MongoDB:**

```
exit
tops: amberfoster2 snhu@nsnv-snhu2-1002:/usr/local/datasets5 /usr/local/bin/nongod_ctl stop
++- Stopping Mongod8 for amberfoster3 snhu
flowed amberfoster2 snhu@nsnv-snhu2-1002:/usr/local/datasets5 /usr/local/bin/nongod_ctl stop
the snburg for amberfoster3 snhu
flowed amberfoster3 snhumburs-vanhu2-loude/rasr/local/datasets5 |
```