MongoDB Aggregation Examples

• Ensure you have pymongo installed before running cells in this notebook

```
In []: import pymongo
    from bson.json_util import dumps
    import pprint

# --> Update the URI with your username and password <---

uri = "mongodb://mark:abc123@localhost:27017/"
    client = pymongo.MongoClient(uri)
    mflixdb = client.mflix
    demodb = client.demodb</pre>
```

About Aggregates in PyMongo

- Aggregation uses pipelines.
- A **pipeline** is a sequence of stages through which documents proceed.
- Some of the different stages that can be used are:
 - match
 - project
 - sort
 - limit
 - unwind
 - group
 - lookup

\$match

match and project

match project limit and sort

Unwind

Grouping

Lookup

Reformatting Queries

```
In []: match = {"$match": {"year": {"$lte": 1920}}}
limit = {"$limit": 5}
project = {"$project": {"_id":0, "title": 1, "cast": 1, "rating": "$imdb.rat
agg = mflixdb.movies.aggregate([match, limit, project])
print(dumps(agg, indent=2))
In []:
```