# 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://ally:picerno@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

```
print(dumps(c, indent=4))
```

#### 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.rating"}}
```

```
agg = mflixdb.movies.aggregate([match, limit, project])
print(dumps(agg, indent=2))
```

In [ ]: