

Mayank Gangrade

Fall 2019

- Number of Movies released per year (Movies Collection)

### Map

```
function() {  
    emit({"year" : this.year}, 1)  
}
```

### Reducer

```
function(key, values) {  
    var result = 0;  
    values.forEach(function(v){  
        print("value : " + v);  
        result += v  
    });  
  
    return result;  
}
```

```
> db.result2.find()  
{ "_id" : { "year" : "1915" }, "value" : 1 }  
{ "_id" : { "year" : "1916" }, "value" : 2 }  
{ "_id" : { "year" : "1917" }, "value" : 2 }  
{ "_id" : { "year" : "1918" }, "value" : 2 }  
{ "_id" : { "year" : "1919" }, "value" : 4 }  
{ "_id" : { "year" : "1920" }, "value" : 5 }  
{ "_id" : { "year" : "1921" }, "value" : 3 }  
{ "_id" : { "year" : "1922" }, "value" : 7 }  
{ "_id" : { "year" : "1923" }, "value" : 6 }  
{ "_id" : { "year" : "1924" }, "value" : 6 }  
{ "_id" : { "year" : "1925" }, "value" : 10 }  
{ "_id" : { "year" : "1926" }, "value" : 10 }  
{ "_id" : { "year" : "1927" }, "value" : 19 }  
{ "_id" : { "year" : "1928" }, "value" : 10 }  
{ "_id" : { "year" : "1929" }, "value" : 7 }  
{ "_id" : { "year" : "1930" }, "value" : 15 }  
{ "_id" : { "year" : "1931" }, "value" : 16 }  
{ "_id" : { "year" : "1932" }, "value" : 22 }  
{ "_id" : { "year" : "1933" }, "value" : 23 }  
{ "_id" : { "year" : "1934" }, "value" : 18 }
```

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- Number of Movies per genre (Movies Collection)

### **Map**

```
function() {  
    var genres = this.genres;  
    var x;  
    for (x of genres){  
        emit({ "genre" : x }, 1);  
    }  
}
```

### **Reducer**

```
function(key, values) {  
    var result = 0;  
    values.forEach(function(v){  
        print("value : " + v);  
        result += v  
    });  
    return result;  
}
```

```
> db.result3.find()  
{ "_id" : { "genre" : "(no genres listed)" }, "value" : 1 }  
{ "_id" : { "genre" : "Action" }, "value" : 1473 }  
{ "_id" : { "genre" : "Adventure" }, "value" : 1025 }  
{ "_id" : { "genre" : "Animation" }, "value" : 286 }  
{ "_id" : { "genre" : "Children" }, "value" : 528 }  
{ "_id" : { "genre" : "Comedy" }, "value" : 3703 }  
{ "_id" : { "genre" : "Crime" }, "value" : 1118 }  
{ "_id" : { "genre" : "Documentary" }, "value" : 482 }  
{ "_id" : { "genre" : "Drama" }, "value" : 5339 }  
{ "_id" : { "genre" : "Fantasy" }, "value" : 543 }  
{ "_id" : { "genre" : "Film-Noir" }, "value" : 148 }  
{ "_id" : { "genre" : "Horror" }, "value" : 1013 }  
{ "_id" : { "genre" : "IMAX" }, "value" : 29 }  
{ "_id" : { "genre" : "Musical" }, "value" : 436 }  
{ "_id" : { "genre" : "Mystery" }, "value" : 509 }  
{ "_id" : { "genre" : "Romance" }, "value" : 1685 }  
{ "_id" : { "genre" : "Sci-Fi" }, "value" : 754 }  
{ "_id" : { "genre" : "Thriller" }, "value" : 1706 }  
{ "_id" : { "genre" : "War" }, "value" : 511 }  
{ "_id" : { "genre" : "Western" }, "value" : 275 }
```

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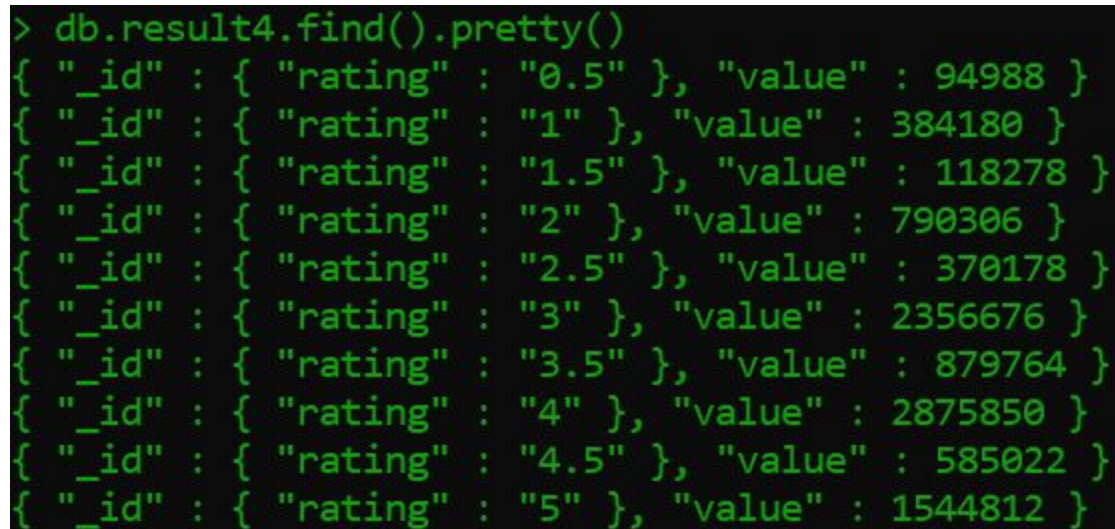
- Number of Movies per rating (Ratings Collection)

### **Map**

```
function() {  
    emit({ "rating" : this.rating }, 1);  
}
```

### **Reducer**

```
function(key, values) {  
    var result = 0;  
    values.forEach(function(v){  
        print("value : " + v);  
        result += v  
    });  
    return result;  
}
```



A terminal window with a black background and green text. It shows a MongoDB query result for the 'ratings' collection. The command is `> db.result4.find().pretty()`. The output is a list of 10 documents, each representing a rating from 0.5 to 5.0. Each document has an `_id` field containing the rating and a `value` field containing the count of movies with that rating.

rating	value
0.5	94988
1	384180
1.5	118278
2	790306
2.5	370178
3	2356676
3.5	879764
4	2875850
4.5	585022
5	1544812



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- Number of times each movie was tagged (Tags Collection)

### **Map**

```
function() {  
    emit({ "movie" : this.movieId }, 1);  
}
```

### **Reducer**

```
function(key, values) {  
    var result = 0;  
    values.forEach(function(v){  
        print("value : " + v);  
        result += v  
    });  
    return result;  
}
```

```
> db.result5.find()  
{ "_id" : { "movie" : "1" }, "value" : 140 }  
{ "_id" : { "movie" : "10" }, "value" : 53 }  
{ "_id" : { "movie" : "100" }, "value" : 2 }  
{ "_id" : { "movie" : "1003" }, "value" : 2 }  
{ "_id" : { "movie" : "1004" }, "value" : 1 }  
{ "_id" : { "movie" : "1005" }, "value" : 9 }  
{ "_id" : { "movie" : "1006" }, "value" : 10 }  
{ "_id" : { "movie" : "1007" }, "value" : 3 }  
{ "_id" : { "movie" : "1008" }, "value" : 2 }  
{ "_id" : { "movie" : "1009" }, "value" : 5 }  
{ "_id" : { "movie" : "101" }, "value" : 29 }  
{ "_id" : { "movie" : "1010" }, "value" : 16 }  
{ "_id" : { "movie" : "1011" }, "value" : 2 }  
{ "_id" : { "movie" : "1012" }, "value" : 19 }  
{ "_id" : { "movie" : "1013" }, "value" : 13 }  
{ "_id" : { "movie" : "1014" }, "value" : 10 }  
{ "_id" : { "movie" : "1015" }, "value" : 1 }  
{ "_id" : { "movie" : "1016" }, "value" : 1 }  
{ "_id" : { "movie" : "1017" }, "value" : 14 }  
{ "_id" : { "movie" : "1018" }, "value" : 2 }  
Type "it" for more
```