**Act 5.4 Aggregate**

1.- Count all movies filmed in year 2000

[

{

$match:

{

year: 2000,

},

},

{

$count:

"string",

},

]

2.- Obtain all distinct genres

db.movies.distinct("genres")

3.- Count how many movies were filmed in each year

[

{

$group:

{

\_id: "$year",

films: {

$count: {},

},

},

}

]

4.- Count how many movies were filmed in each year, between 2000 and 2020

[

{

$match:

{

year: {

$gt: 2000,

$lt: 2020,

},

},

},

{

$group:

{

\_id: "$year",

films: {

$count: {},

},

},

}

]

5.- Obtain the total amount of nominations and wins of awards of the films of the year 2000.

[

{

$match:

{

year: 2000,

},

},

{

$group:

{

\_id: "$year",

total\_nominations: {

$sum: "$awards.nominations",

},

total\_wins\_awards: {

$sum: "$awards.wins",

},

},

}

]

6.- Get the max awards won by a film.

[

{

$group:

{

\_id: null,

max\_awards\_win: {

$max: "$awards.wins",

},

},

}

]

7.- For “Steven Spielberg”, get the total won awards, the max awards of an individual film and the average awards per film.

[

{

$match: {

directors: "Steven Spielberg",

},

},

{

$group: {

\_id: null,

total\_nominations: {

$sum: "$awards.nominations",

},

avg\_awards: {

$avg: "$awards.wins",

},

max\_awards: {

$max: "$awards.wins",

},

},

}

]