

Práctica MONGO EricssonMarc

1) ¿Cuántos restaurantes pertenecen a la ciudad (borough) de “Queens”?

```
db.restaurants.countDocuments({"borough":"Queens"})
```

```
> db.restaurants.countDocuments({"borough":"Queens"})  
< 5656
```

5656

2) ¿Cuántos restaurantes tienen el código postal 11374?

```
db.restaurants.countDocuments({"address.zipcode":"11374"})
```

```
> db.restaurants.countDocuments({"address.zipcode":"11374"})  
< 88
```

88

3) ¿Cuántos restaurantes son de tipo “American” o “Bakery”?

```
db.restaurants.countDocuments({  
  $or: [  
    {"cuisine":"American"},  
    {"cuisine":"Bakery"}  
  ]  
})
```

```
> db.restaurants.countDocuments({  
  $or: [  
    {"cuisine":"American"},  
    {"cuisine":"Bakery"}  
  ]  
})
```

6874

4) ¿Cuántos nombres de restaurantes empiezan por la letra "A"?

```
db.restaurants.countDocuments({"name":/^A/})
```

```
> db.restaurants.countDocuments({"name":/^A/})  
< 1126
```

1126

5) ¿Cuáles es el nombre de las 10 empresas mas antiguas?

```
db.companies.find({founded_year: { $ne: null}}, {"founded_year": 1,"founded_month": 1, "name": 1, "_id": 0}).sort({"founded_year": 1,"founded_month": 1,"founded_day": 1}).limit(10)
```

```
{ name: 'US Army', founded_year: 1800, founded_month: null }  
{ name: 'Alstrasoft', founded_year: 1800, founded_month: 6 }  
{ name: 'SmallWorlds', founded_year: 1800, founded_month: 12 }  
{ name: 'DuPont', founded_year: 1802, founded_month: null }  
{ name: 'Bachmann Industries',  
  founded_year: 1833,  
  founded_month: null }  
{ name: 'McKesson', founded_year: 1833, founded_month: null }  
{ name: 'Bertelsmann', founded_year: 1835, founded_month: null }  
{ name: 'Accuity', founded_year: 1836, founded_month: null }  
{ name: 'CENTRA', founded_year: 1839, founded_month: null }  
{ name: 'WeGame', founded_year: 1840, founded_month: 1 }
```

```
> db.companies.find({founded_year: { $ne: null}}, {"founded_year": 1,"founded_month": 1, "name": 1, "_id": 0}).sort({"founded_year": 1,"founded_month": 1,"founded_day": 1}).limit(10)  
< { name: 'US Army', founded_year: 1800, founded_month: null }  
  { name: 'Alstrasoft', founded_year: 1800, founded_month: 6 }  
  { name: 'SmallWorlds', founded_year: 1800, founded_month: 12 }  
  { name: 'DuPont', founded_year: 1802, founded_month: null }  
  { name: 'Bachmann Industries',  
    founded_year: 1833,  
    founded_month: null }  
  { name: 'McKesson', founded_year: 1833, founded_month: null }  
  { name: 'Bertelsmann', founded_year: 1835, founded_month: null }  
  { name: 'Accuity', founded_year: 1836, founded_month: null }  
  { name: 'CENTRA', founded_year: 1839, founded_month: null }  
  { name: 'WeGame', founded_year: 1840, founded_month: 1 }
```

6) ¿Cuántas empresas se fundaron durante o después del año 2000?

```
db.companies.countDocuments({"founded_year": { $gte: 2000}})
10742
```

```
> db.companies.countDocuments({"founded_year": { $gte: 2000}})
< 10742
```

7) ¿Cuántas empresas tienen entre 500 y 1000 empleados/as?

```
db.companies.countDocuments({$and:[{"number_of_employees": {$gte: 500}}, {"number_of_employees": {$lte: 1000}}]})
```

144

```
> db.companies.countDocuments({$and:[{"number_of_employees": {$gte: 500}}, {"number_of_employees": {$lte: 1000}}]})
< 144
```

8) ¿Cuántas empresas no tienen productos informados?

```
db.companies.countDocuments({"products.0": {"$exists": false}})
```

13282

```
> db.companies.countDocuments({"products.0": {"$exists": false}})
< 13282
```

9) ¿En cuántos mails aparecen las palabras "Wall Street Journal" en el asunto del correo?

```
db.mails.countDocuments({"subject": {$regex: "Wall Street Journal"}})
```

```
> db.mails.countDocuments({"subject": {$regex: "Wall Street Journal"}})
< 4
```

4

10) ¿Cuántos correos tienen como remitente un correo con dominio @enron.com?

```
db.mails.countDocuments({"sender": {$regex: "@enron.com"}})
```

```
> db.mails.countDocuments({"sender": {$regex: "@enron.com"}})
< 2431
```

2431