MONGO_DB_QUESTIONS

NOMBRE: ELIZABETH EVELIN PEREDO MESCCO

1. Cuántos restaurantes pertenecen a la ciudad (borough) de "Queens"?

```
[{
   $match: {
    borough: 'Queens'
   $count: 'totalCount'
  }]
                                                                                 25.4k
alumno-37.restaurants
                                                                                DOCUMENTS INDEXES
  Documents
                Aggregations
                                Schema
                                           Explain Plan
                                                          Indexes
                                                                      Validation
 Pipeline ■ ▼
                $match
                         $count
                                                           Explain
                                                                    Export
                                                                                   Less Options ▼
 (1) COLLATION { locale: 'simple' }
                                                                            1 MAX TIME MS 60000

⟨→ EXPORT TO LANGUAGE

                                                                              AUTO PREVIEW 
  > $\ 25359 Documents in the Collection
                                           G
                                                 Preview of Documents in the Collection
                                                    Output after $match stage (Sample of 10 documents)
 > $match
                                        ⊕ +
 ||| v $count
                                       +
                                                    Output after $count document stage (Sample of 1 document)
     * Provide the field name for the count.
                                                      totalCount: 5656
    'totalCount'
```

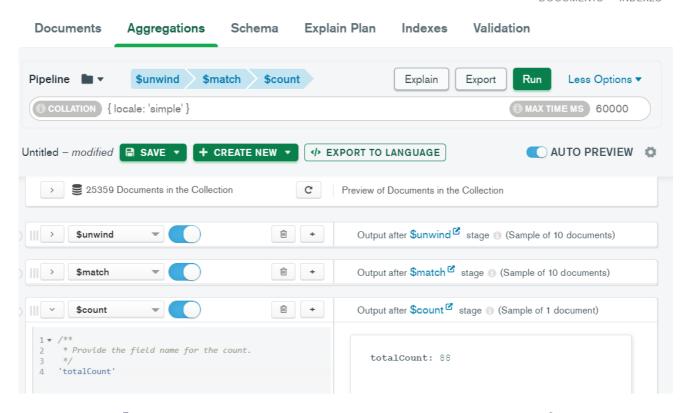
2.¿Cuántos restaurantes tienen el código postal 11374?

```
[{
    $unwind: {
      path: '$address'
    }
}, {
    $match: {
      'address.zipcode': '11374'
}
```

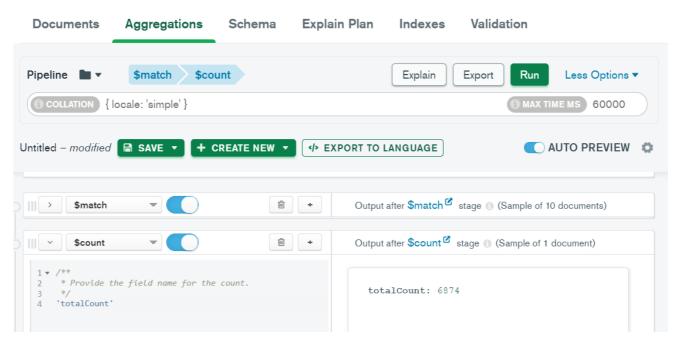
```
}, {
  $count: 'totalCount'
}]
```

alumno-37.restaurants

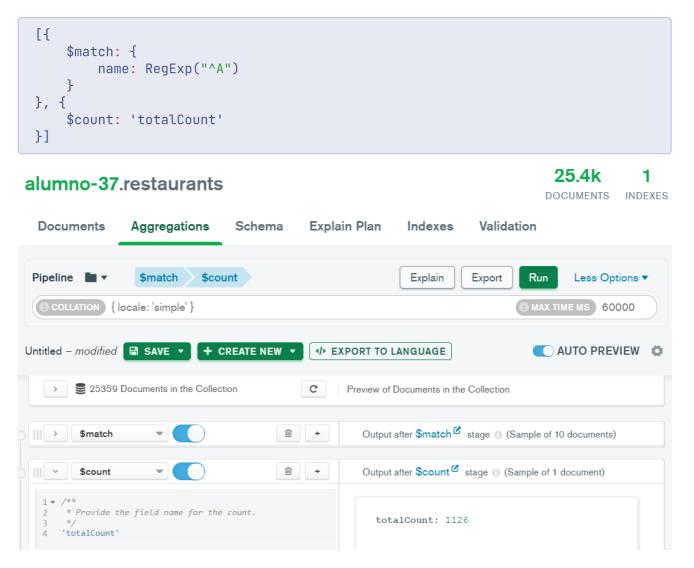
25.4k 1
DOCUMENTS INDEXES



3.¿Cuántos restaurantes son de tipo "American" o "Bakery"?

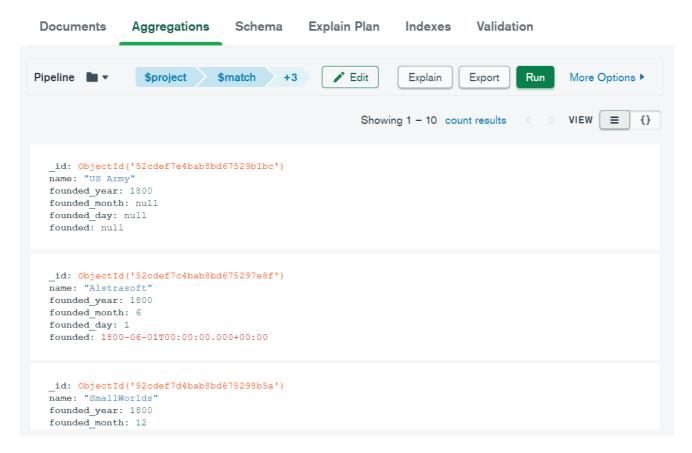


4.¿Cuántos nombres de restaurantes empiezan por la letra "A"?



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

```
$project: {
 id: 1,
 name: 1,
 founded_year: 1,
 founded_month: 1,
 founded_day: 1
}
}, {
$match: {
 founded_year: {
  $ne: null
}
}, {
$addFields: {
 founded: {
  $dateFromString: {
   dateString: {
    $concat: [
      {
      $toString: '$founded_day'
      $toString: '$founded_month'
      },
      $toString: '$founded_year'
    },
   format: '%d-%m-%Y'
}
}, {
 $sort: {
 founded_year: 1,
 founded_month: 1,
 founded_day: 1,
 founded: 1
}, {
$limit: 10
}]
```



RESULTADO JSON

```
[{
  "_id": {
    "$oid": "52cdef7e4bab8bd67529b1bc"
  },
  "name": "US Army",
  "founded_year": 1800,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
  "_id": {
   "$oid": "52cdef7c4bab8bd675297e8f"
  },
  "name": "Alstrasoft",
  "founded_year": 1800,
  "founded_month": 6,
  "founded_day": 1,
  "founded": {
      "$numberLong": "-5351616000000"
    }
  }
},{
  "_id": {
    "$oid": "52cdef7d4bab8bd675298b5a"
  },
  "name": "SmallWorlds",
  "founded_year": 1800,
  "founded_month": 12,
```

```
"founded_day": 1,
  "founded": {
    "$date": {
      "$numberLong": "-5335804800000"
 }
},{
  "_id": {
   "$oid": "52cdef7f4bab8bd67529c453"
  "name": "DuPont",
  "founded_year": 1802,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
  "_id": {
   "$oid": "52cdef7e4bab8bd67529ac9a"
  "name": "Bachmann Industries",
  "founded_year": 1833,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
  "_id": {
   "$oid": "52cdef7d4bab8bd675299360"
  },
  "name": "McKesson",
  "founded_year": 1833,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
  "_id": {
   "$oid": "52cdef7d4bab8bd675298d67"
  },
  "name": "Bertelsmann",
  "founded_year": 1835,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
  "_id": {
   "$oid": "52cdef7f4bab8bd67529c3e2"
 },
  "name": "Accuity",
  "founded_year": 1836,
  "founded_month": null,
  "founded_day": null,
  "founded": null
  "_id": {
   "$oid": "52cdef7f4bab8bd67529c3e1"
 },
  "name": "CENTRA",
  "founded_year": 1839,
  "founded_month": null,
  "founded_day": null,
  "founded": null
},{
```

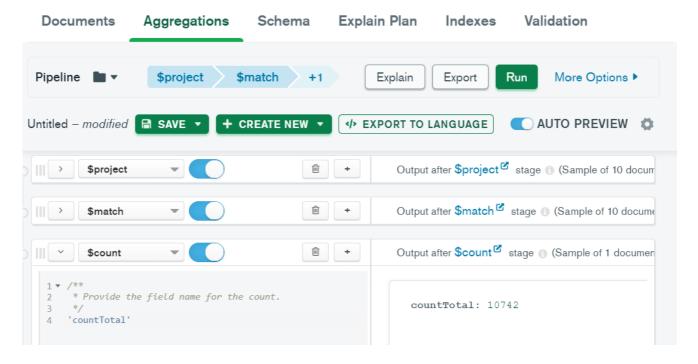
```
"_id": {
    "$oid": "52cdef7c4bab8bd675298140"
},
    "name": "WeGame",
    "founded_year": 1840,
    "founded_month": 1,
    "founded_day": 1,
    "founded": {
        "$date": {
            "$numberLong": "-4102444800000"
        }
    }
}
```

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

```
[{
    $project: {
    id: 1,
    name: 1,
    founded_year: 1
    }
}, {
    $match: {
    founded_year: {
        $gte: 2000
    }
    }
}, {
    $count: 'countTotal'
}]
```

alumno-37.companies

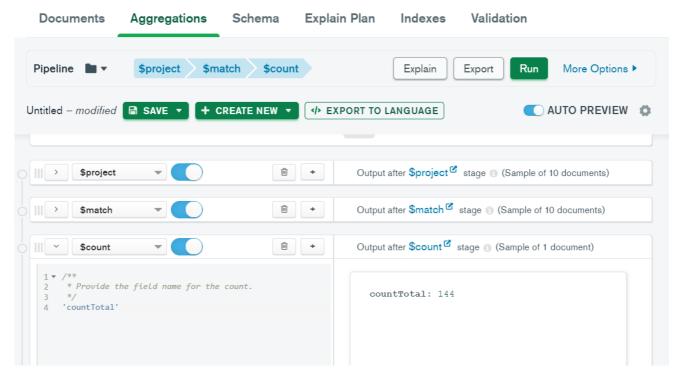




7.¿Cuántas empresas tienen entre 500 y 1000 empleados/as?

alumno-37.companies

18.8k 1
DOCUMENTS INDEXES



8.¿Cuántas empresas no tienen productos informados?

```
[{
    $project: {
    id: 1,
    name: 1,
    products: 1
    }
}, {
```

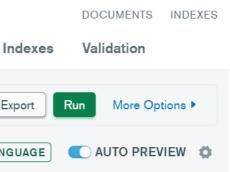
```
$match: {
  products: {
   $exists: true,
   $ne: []
}
$count: 'countTotal'
}]
```

Explain Plan

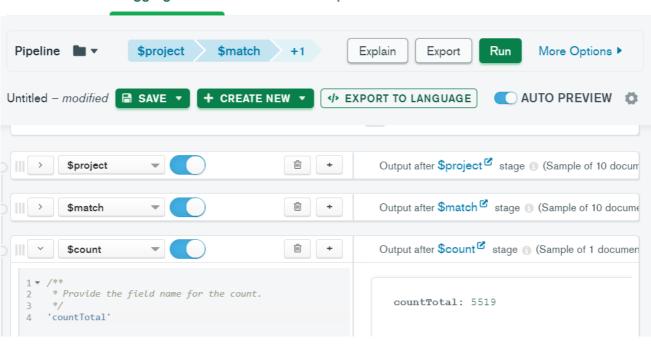
alumno-37.companies

Documents

Aggregations



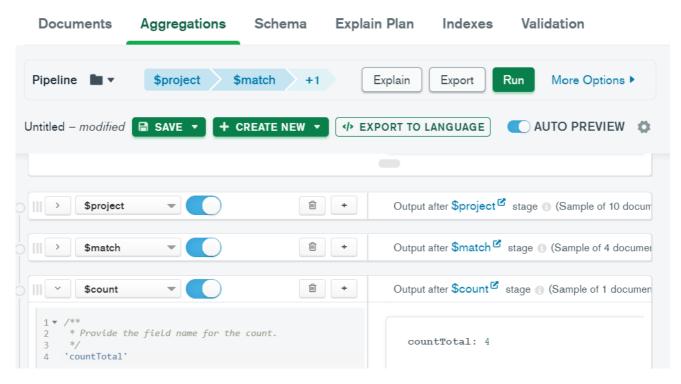
18.8k



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

Schema

```
[{
$project: {
 id: 1,
 subject: 1
}
}, {
$match: {
 subject: {
   $regex: '.*Wall Street Journal.*'
}
$count: 'countTotal'
}]
```



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

alumno-37.mails

5.9k 1
DOCUMENTS INDEXES

