

MONGO_DB_QUESTIONS

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

```
[{
  $match: {
    borough: 'Queens'
  }
}, {
  $count: 'totalCount'
}]
```

alumno-37.restaurants

25.4k

1

DOCUMENTS

INDEXES

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

Pipeline

\$match

\$count

Explain

Export

Run

Less Options

COLLATION { locale: 'simple' }

MAX TIME MS 60000

Untitled – modified

SAVE

+ CREATE NEW

EXPORT TO LANGUAGE

AUTO PREVIEW

25359 Documents in the Collection

Preview of Documents in the Collection

\$match

Output after \$match stage (Sample of 10 documents)

\$count

Output after \$count stage (Sample of 1 document)

```
1 /**
2  * Provide the field name for the count.
3  */
4  'totalCount'
```

totalCount: 5656

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

Documents **Aggregations** Schema Explain Plan Indexes Validation

Pipeline \$unwind \$match \$count Explain Export Run Less Options ▼

COLLATION { locale: 'simple' } MAX TIME MS 60000

Untitled – modified SAVE ▼ CREATE NEW ▼ EXPORT TO LANGUAGE ☒ AUTO PREVIEW

25359 Documents in the Collection Preview of Documents in the Collection

> \$unwind Output after \$unwind stage (Sample of 10 documents)

> \$match Output after \$match stage (Sample of 10 documents)

▼ \$count Output after \$count stage (Sample of 1 document)

```
1 ▼ /**
2   * Provide the field name for the count.
3   */
4   'totalCount'
```

totalCount: 88

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

```
[{
  $match: {
    $or: [{
      cuisine: 'American'
    },
    {
      cuisine: 'Bakery'
    }
  ]
}, {
  $count: 'totalCount'
}]
```

Pipeline ▼ **\$match** **\$count** Explain Export Run Less Options ▼

COLLATION { locale: 'simple' } **MAX TIME MS** 60000

Untitled – modified SAVE + CREATE NEW EXPORT TO LANGUAGE AUTO PREVIEW ⚙

\$match Output after \$match stage (Sample of 10 documents)

\$count Output after \$count stage (Sample of 1 document)

```
1 /**
2  * Provide the field name for the count.
3  */
4  'totalCount'
```

totalCount: 6874

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

```
[{
  $match: {
    name: RegExp("^A")
  }, {
    $count: 'totalCount'
  }]
```

Pipeline ▼ **\$match** **\$count** Explain Export Run Less Options ▼

COLLATION { locale: 'simple' } **MAX TIME MS** 60000

Untitled – modified SAVE + CREATE NEW EXPORT TO LANGUAGE AUTO PREVIEW ⚙

25359 Documents in the Collection Preview of Documents in the Collection

\$match Output after \$match stage (Sample of 10 documents)

\$count Output after \$count stage (Sample of 1 document)

```
1 /**
2  * Provide the field name for the count.
3  */
4  'totalCount'
```

totalCount: 1126

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
}]
```

Pipeline

\$project

\$match

+3

Edit

Explain

Export

Run

More Options

Showing 1 – 10 count results

VIEW



```
_id: ObjectId('52cdef7e4bab8bd67529b1bc')
name: "US Army"
founded_year: 1800
founded_month: null
founded_day: null
founded: null
```

```
_id: ObjectId('52cdef7c4bab8bd675297e8f')
name: "Alstrasoft"
founded_year: 1800
founded_month: 6
founded_day: 1
founded: 1800-06-01T00:00:00.000+00:00
```

```
_id: ObjectId('52cdef7d4bab8bd675298b5a')
name: "SmallWorlds"
founded_year: 1800
founded_month: 12
```

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": {
    "$date": {
      "$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

18.8k

1

DOCUMENTS

INDEXES

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

Pipeline



\$project



\$match



+1

Explain

Export

Run

More Options



Untitled – modified



SAVE



CREATE NEW



EXPORT TO LANGUAGE



AUTO PREVIEW



\$project



Output after \$project stage (Sample of 10 documents)



\$match



Output after \$match stage (Sample of 10 documents)



\$count



Output after \$count stage (Sample of 1 document)

```

1 /**
2  * Provide the field name for the count.
3  */
4  'countTotal'

```

countTotal: 10742

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

```
[{
  $project: {
    id: 1,
    name: 1,
    number_of_employees: 1
  }
}, {
  $match: {
    number_of_employees: {
      $gte: 500,
      $lte: 1000
    }
  }
}, {
  $count: 'countTotal'
}]
```

alumno-37.companies 18.8k 1
DOCUMENTS INDEXES

Documents **Aggregations** Schema Explain Plan Indexes Validation

Pipeline \$project \$match \$count Explain Export Run More Options ▶

Untitled – modified SAVE + CREATE NEW EXPORT TO LANGUAGE AUTO PREVIEW

\$project Output after \$project stage (Sample of 10 documents)

\$match Output after \$match stage (Sample of 10 documents)

\$count Output after \$count stage (Sample of 1 document)

```
1 /**
2  * Provide the field name for the count.
3  */
4  'countTotal'
```

countTotal: 144

8.¿Cuántas empresas no tienen productos informados?

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



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

alumno-37.companies

18.8k 1
DOCUMENTS INDEXES

Documents **Aggregations** Schema Explain Plan Indexes Validation

Pipeline  \$project \$match +1 Explain Export Run More Options ▶

Untitled – modified  SAVE  CREATE NEW  EXPORT TO LANGUAGE  AUTO PREVIEW 

III > \$project   + Output after [\\$project](#) stage ⓘ (Sample of 10 documents)

III > \$match   + Output after [\\$match](#) stage ⓘ (Sample of 10 documents)

III ▼ \$count   + Output after [\\$count](#) stage ⓘ (Sample of 1 document)

```
1 ▾ /**
2   * Provide the field name for the count.
3   */
4   'countTotal'
```

countTotal: 5519

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

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

Pipeline



\$project

\$match

+1

Explain

Export

Run

More Options ▶

Untitled – modified



SAVE

+ CREATE NEW

EXPORT TO LANGUAGE



AUTO PREVIEW



\$project



Output after \$project stage (Sample of 10 documents)



\$match



Output after \$match stage (Sample of 4 documents)



\$count



Output after \$count stage (Sample of 1 document)

```
1 ▾ /**
2   * Provide the field name for the count.
3   */
4   'countTotal'
```

countTotal: 4

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

```
[{
  $project: {
    id: 1,
    sender: 1
  }
}, {
  $match: {
    sender: {
      $regex: '.*@enron.com.*'
    }
  }
}, {
  $count: 'countTotal'
}]
```

Pipeline

\$project

\$match

+1

Explain

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Untitled – modified

SAVE

+ CREATE NEW

EXPORT TO LANGUAGE

AUTO PREVIEW

\$project

Output after \$project stage (Sample of 10 documents)

\$match

Output after \$match stage (Sample of 10 documents)

\$count

Output after \$count stage (Sample of 1 document)

```
1 /**
2  * Provide the field name for the count.
3  */
4  'countTotal'
```

countTotal: 2431