

Catálogo de productos

```
{ "_id" : "ac3",
  "name" : "AC3 Phone",
  "brand" : "ACME",
  "type" : "phone",
  "price" : 200,
  "warranty_years" : 1,
  "available" : true }

{ "_id" : "ac7",
  "name" : "AC7 Phone",
  "brand" : "ACE",
  "type" : "phone",
  "price" : 320,
  "warranty_years" : 1,
  "available" : false }

{ "name" : "AC3 Series Charger",
  "type" : [ "accessory", "charger" ],
  "price" : 19,
  "warranty_years" : 0.25,
  "for" : [ "ac3", "ac7", "ac9" ] }

{ "name" : "AC3 Case Green",
  "type" : [ "accessory", "case" ],
  "color" : "green",
  "price" : 12,
  "warranty_years" : 0,
  "for" : "ac3" }

{ "name" : "Phone Extended Warranty",
  "type" : "warranty",
  "price" : 38,
  "warranty_years" : 2,
  "for" : [ "ac3", "ac7", "ac9", "qp7", "qp8", "qp9" ] }

{ "name" : "AC3 Case Black",
  "type" : [ "accessory", "case" ],
  "color" : "black",
  "price" : 12.5,
  "warranty_years" : 0.25,
  "available" : false,
  "for" : "ac3" }

{ "name" : "AC3 Case Red",
  "type" : [ "accessory", "case" ],
  "color" : "red",
  "price" : 12,
  "warranty_years" : 0.25,
  "available" : true,
  "for" : "ac3" }

{ "name" : "Phone Service Basic Plan",
  "type" : "service",
  "monthly_price" : 40,
  "limits" : {
    "voice" : { "units" : "minutes", "n" : 400, "over_rate" : 0.05 },
    "data" : { "units" : "gigabytes", "n" : 20, "over_rate" : 1 } },
  "term_years" : 2 }

{ "name" : "Phone Service Core Plan",
  "type" : "service",
  "monthly_price" : 60,
  "limits" : {
    "voice" : { "units" : "minutes", "n" : 1000, "over_rate" : 0.05 },
    "data" : { "n" : "unlimited", "over_rate" : 0 } },
  "term_years" : 1 }
```

Ejemplos de consultas

Todos los productos:

```
db.products.find()
```

Todos los teléfonos:

```
db.products.find({ type: "phone" })
```

Nombre e identificador de los teléfonos:

```
db.products.find({ type: "phone" }, { _id: 1, name: 1 })
```

Todos los accesorios seleccionando campos:

```
db.products.find({ type: "accessory" }, { name: 1, for: 1 })
```

Todos los accesorios seleccionando campos, evitando que se muestre `_id`:

```
db.products.find({ type: "accessory" }, { _id: 0, name: 1, for: 1 })
```

Todos los accesorios para `ac3`:

```
db.products.find({ type: "accessory", for: "ac3" }, { _id: 0, name: 1 })
```

Todos los productos disponibles:

```
db.products.find({ $or: [{ available: true }, { type: "service" }] })
```

Todos los accesorios para `ac3` ordenados por precio:

```
db.products.find({ type: "accessory", for: "ac3" }).sort({ price: 1 })
```

Todos los productos de precio inferior o igual a 40 euros:

```
db.products.find({ price: { $lte: 40 } }, { _id: 0, name: 1, price: 1 })
```

Límites y precios de las tarifas de datos:

```
db.products.find({ "limits.data": { $exists: 1 } },  
  { _id: 0, name: 1, "limits.data.n": 1, "limits.data.units": 1 })
```

Número de fundas para `ac3`:

```
db.products.find({ for: "ac3", type: "case" }).count()
```

Producto más caro de cada tipo:

```
db.products.aggregate([ { $match: { price: { $exists: 1 } } },  
  { $group: { _id: "$type", max_price: { $max: "$price" } } } ])
```

Añadir un nuevo producto:

```
db.products.insert({ _id: "ac8", name: "AC8 Phone", type: "phone", price: 330 })
```

Cambiar el precio de un producto:

```
db.products.update({ _id: "ac8" }, { $set: { price: 400 } })
```