

**Parte 1: Bases de Datos NoSQL y Relacionales**

**1. ¿Cuáles de los siguientes conceptos de RDBMS existen en MongoDB? En caso de no existir, ¿hay alguna alternativa? ¿Cuál es?**

- **Base de Datos:** El concepto existe.
- **Tabla / Relación:** El concepto de tabla en sí no existe, pero es reemplazado por el de **colecciones**. El modelo relacional es reemplazado por documentos. Se pierde el concepto de esquemas, por lo tanto el concepto de unión de tablas en esquemas relacionales. Las relaciones pueden darse declarando la estructura de un documento dentro de otro o referenciando ids de otros documentos en un campo del primero.
- **Fila / Tupla:** Las filas y tuplas no están definidas en un documento. No es necesario organizar la información de esa forma. En MongoDB los datos se modelan en documentos. Las BBDD no relacionales proporcionan flexibilidad a la hora de persistir las estructuras de datos.
- **Columna:** Las columnas no están definidas en un documento, estas cambian por los campos que se presentan en los documentos. Los documentos de una misma colección pueden tener los mismos campos o faltarles algunos.

**2. MongoDB tiene soporte para transacciones, pero no es igual que el de los RDBMS. ¿Cuál es el alcance de una transacción en MongoDB?**

Las transacciones en MongoDB son atómicas tienen un alcance por documento. Pueden darse problemas de integridad al trabajar con datos separados en distintos documentos. Sólo se garantiza la atomicidad en cada write singular aunque se hiciera una operación que modificara muchos documentos.

**3. Para acelerar las consultas, MongoDB tiene soporte para índices. ¿Qué tipos de índices soporta?**

MongoDB permite crear índices de:

- Single Field Index: De forma predeterminada, todas las colecciones tienen un índice en el campo `_id`, y las aplicaciones y los usuarios pueden agregar índices adicionales en cualquier campo del documento para admitir consultas y operaciones importantes.
- Compound Index: Permite la creación de un índice basado en múltiples campos del documento, indexa en el orden en el que se creó el índice..
- Multikey Index: Para indexar un campo que contiene un valor de matriz, MongoDB crea una clave de índice para cada elemento de la matriz. Estos índices *multiciclo* admiten consultas eficientes contra campos de matriz. Los índices Multikey se pueden construir sobre matrices que contienen valores escalares (por ejemplo, cadenas, números) y documentos anidados.

- Geospatial Index: Índices especializados para datos de coordenadas y geolocalización.
- 2d Index: Se puede utilizar si su base de datos tiene [pares de coordenadas heredados](#) de MongoDB 2.2 o anterior, y no tiene la intención de almacenar ningún dato de ubicación como objetos [GeoJSON](#).
- 2dsphere Index: Admite consultas que calculan geometrías en una esfera similar a la Tierra, también admite todas las consultas geoespaciales de MongoDB: consultas de inclusión, intersección y proximidad.
- Text Index: MongoDB los proporciona para admitir consultas de búsqueda de texto en contenido de cadena. Los índices pueden incluir cualquier campo cuyo valor sea una cadena o una matriz de elementos de cadena.
- Hashed Index: Permite indexar campos a través de una función de hash. Solo permite la búsqueda por igualdad, no por rangos.

#### 4. ¿Existen claves foráneas en MongoDB?

Las FK no son necesarias en un modelo de base de datos que permite almacenar la información en una estructura flexible, dado esto nunca habrá restricciones al borrado o a la modificación o una operación "en cascada" como resultado.

## Parte 2: Primeros pasos con MongoDB

**5. Cree una nueva base de datos llamada ecommerce, y una colección llamada products. En esa colección inserte un nuevo documento (un producto) con los siguientes atributos:**

```
{name:'Caldera Caldaia Duo', price:140000}
```

recupere la información del producto usando el comando `db.products.find()` (puede agregar la función `.pretty()` al final de la expresión para ver los datos indentados). Notará que no se encuentran exactamente los atributos que insertó. ¿Cuál es la diferencia?

**creamos la bd**

```
use ecommerce
```

**insertamos un producto en la colección**

```
bd.products.save({name:'Caldera Caldaia Duo',price:140000});
```

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

```
{
  "_id" : ObjectId("60abd890ab6e414ed117acea"),
  "name" : "Caldera Caldaia Duo",
  "price" : 140000
}
```

notamos que ahora tenemos 3 atributos, 2 agregados y uno “\_id” que se genera automáticamente, es la clave principal para los elementos de la colección.

#### 6. Agregue los siguientes documentos a la colección de productos:

```
{name:'Caldera Orbis 230', price:77000, tags: ['gas', 'digital']}
{name:'Caldera Ariston Clas', price:127000, tags: ['gas envasado', 'termostato']}
{name:'Caldera Caldaia S30', price:133000}
{name:'Caldera Mural Orbis 225cto', price:100000, tags: ['gas', 'digital', 'termostato']}
```

Y busque los productos:

- de \$100.000 o menos
- que tengan la etiqueta (tag) “digital”
- que no tengan etiquetas (es decir, que el atributo esté ausente)
- que incluyan la palabra ‘Orbis’ en su nombre
- con la palabra ‘Orbis’ en su nombre y menores de \$100.000

vuelva a realizar la última consulta pero proyecte sólo el nombre del producto en los resultados, omitiendo incluso el atributo \_id de la proyección

Agregue los siguientes documentos a la colección de productos:

```
db.products.save({name:'Caldera Orbis 230', price:77000, tags:['gas','digital']});
```

```
db.products.save({name:'Caldera Ariston Clas', price:127000, tags: ['gas envasado', 'termostato']});
```

```
db.products.save({name:'Caldera Caldaia S30', price:133000});
```

```
db.products.save({name:'Caldera Mural Orbis 225cto', price:100000, tags: ['gas', 'digital', 'termostato']});
```

- de \$100.000 o menos

```
> db.products.find({price:{$lte:100000}});
```

```
{ "_id" : ObjectId("60b3ba16f4beed6aedbcc9d3"), "name" : "Caldera Orbis 230", "price" : 77000,
  "tags" : [ "gas", "digital" ] }
```

- que tengan la etiqueta (tag) “digital”

```
> db.products.find({tags:{$eq:'digital'}});
```

```
{ "_id" : ObjectId("60b3ba16f4beed6aedbcc9d3"), "name" : "Caldera Orbis 230", "price" : 77000,
"tags" : [ "gas", "digital" ] }
```

```
{ "_id" : ObjectId("60b3ba86f4beed6aedbcc9d6"), "name" : "Caldera Mural Orbis 225cto", "price" :
100000, "tags" : [ "gas", "digital", "termostato" ] }
```

- que no tengan etiquetas (es decir, que el atributo esté ausente)

```
> db.products.find({"tags":null});
```

```
{ "_id" : ObjectId("60b3ba80f4beed6aedbcc9d5"), "name" : "Caldera Caldaia S30", "price" : 133000 }
```

```
{ "_id" : ObjectId("60b3c902f4beed6aedbcc9d7"), "name" : "Caldera Caldaia Duo", "price" : 140000
}
```

- que incluyan la palabra 'Orbis' en su nombre

```
> db.products.find({"name": /. *Orbis.*/});
```

```
{ "_id" : ObjectId("60b3ba16f4beed6aedbcc9d3"), "name" : "Caldera Orbis 230", "price" : 77000,
"tags" : [ "gas", "digital" ] }
```

```
{ "_id" : ObjectId("60b3ba86f4beed6aedbcc9d6"), "name" : "Caldera Mural Orbis 225cto", "price" :
100000, "tags" : [ "gas", "digital", "termostato" ] }
```

- con la palabra 'Orbis' en su nombre y menores de \$100.000

```
> db.products.find({"name": /. *Orbis.*/ , "price": {"$lt": 100000}});
```

```
{ "_id" : ObjectId("60b3ba16f4beed6aedbcc9d3"), "name" : "Caldera Orbis 230", "price" : 77000,
"tags" : [ "gas", "digital" ] }
```

vuelva a realizar la última consulta pero proyecte sólo el nombre del producto en los resultados, omitiendo incluso el atributo \_id de la proyección

```
db.products.find({"name": /. *Orbis.*/ , "price": {"$lt": 100000}}, {name:1, _id:0});
```

```
{ "name" : "Caldera Orbis 230" }
```

7. Actualice la “Caldera Caldaia S30” cambiándole el precio a \$150.000.

```
> db.products.update({"name" : "Caldera Caldaia S30"},{$set : {"price": 150000}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

8. Cree el array de etiquetas (tags) para la “Caldera Caldaia S30”.

```
> db.products.update({"name" : "Caldera Caldaia S30"},{$set : {"tags": {}}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Verificó que se creó el tags sin elementos

```
> db.products.find({"name":'Caldera Caldaia S30'});
{ "_id" : ObjectId("60b3ba80f4beed6aedbcc9d5"), "name" : "Caldera Caldaia S30", "price" : 150000,
  "tags" : { } }
```

9. Agregue “digital” a las etiquetas de la “Caldera Caldaia S30”.

```
> db.products.update({"name" : "Caldera Caldaia S30"},{$set : {"tags": 'digital'}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Verifico que se agregó digital al tag

```
> db.products.find({"name":'Caldera Caldaia S30'});
{ "_id" : ObjectId("60b3ba80f4beed6aedbcc9d5"), "name" : "Caldera Caldaia S30", "price" : 150000,
  "tags" : "digital" }
```

10. Incremente en un 10% los precios de todas las calderas digitales

```
> db.products.update({tags:{$eq:'digital'}},{ $mul: { price: 1.1 }},{ multi: true });
WriteResult({ "nMatched" : 3, "nUpserted" : 0, "nModified" : 3 })
```

Verifico los resultados de realizar el update

```
> db.products.find({tags:{$eq:'digital'}});
{ "_id" : ObjectId("60b3ba16f4beed6aedbcc9d3"), "name" : "Caldera Orbis 230", "price" : 84700,
  "tags" : [ "gas", "digital" ] }
{ "_id" : ObjectId("60b3ba80f4beed6aedbcc9d5"), "name" : "Caldera Caldaia S30", "price" : 165000,
  "tags" : "digital" }
{ "_id" : ObjectId("60b3ba86f4beed6aedbcc9d6"), "name" : "Caldera Mural Orbis 225cto", "price" :
  110000.000000000001, "tags" : [ "gas", "digital", "termostato" ] }
```

**El último price no se porque quedo 0000000000001. No es necesario igual imprimir el resultado.**

### **Parte 3: Índices**

Elimine todos los productos de la colección. Guarde en un archivo llamado 'generador.js' el siguiente código JavaScript y ejecútelo con: load(). Si utiliza un cliente que lo permita (ej. Robo3T), se puede ejecutar directamente en el espacio de consultas.

```
> db.products.drop();
```

```
true
```

```
> load("C:\\Users\\Usuario\\Desktop\\generador.js")
```

```
true
```

11. Busque en la colección de compras (purchases) si existe algún índice definido.

```
> db.purchases.getIndexes();
[ { "v" : 2, "key" : { "_id" : 1 }, "name" : "_id_" } ]
```

12. Cree un índice para el campo productName. Busque los las compras que tengan en el nombre del producto el string "11" y utilice el método explain("executionStats") al final de la consulta, para comparar la cantidad de documentos examinados y el tiempo en milisegundos de la consulta con y sin índice.

Creamos el índice

```
> db.purchases.createIndex({productName:1});
{
  "createdCollectionAutomatically" : false,
  "numIndexesBefore" : 1,
  "numIndexesAfter" : 2,
  "ok" : 1
}
```

Buscamos los productos con el string "11".

```
> db.purchases.find({productName: /. *11.*/}).explain("executionStats");
{
  "queryPlanner" : {
    "plannerVersion" : 1,
    "namespace" : "test.purchases",
    "indexFilterSet" : false,
    "parsedQuery" : {
      "productName" : {
        "$regex" : ". *11. *"
      }
    },
    "winningPlan" : {
      "stage" : "FETCH",
      "inputStage" : {
        "stage" : "IXSCAN",
        "filter" : {
          "productName" : {
            "$regex" : ". *11. *"
          }
        }
      }
    }
  },
```

```

        "keyPattern" : {
          "productName" : 1
        },
        "indexName" : "productName_1",
        "isMultiKey" : false,
        "multiKeyPaths" : {
          "productName" : [ ]
        },
        "isUnique" : false,
        "isSparse" : false,
        "isPartial" : false,
        "indexVersion" : 2,
        "direction" : "forward",
        "indexBounds" : {
          "productName" : [
            "[\\", {}]",
            "[/. *11.*/, /. *11.*/]"
          ]
        }
      },
      "rejectedPlans" : [ ]
    },
    "executionStats" : {
      "executionSuccess" : true,
      "nReturned" : 2030,
      "executionTimeMillis" : 211,
      "totalKeysExamined" : 44702,
      "totalDocsExamined" : 2030,
      "executionStages" : {
        "stage" : "FETCH",
        "nReturned" : 2030,
        "executionTimeMillisEstimate" : 42,
        "works" : 44703,
        "advanced" : 2030,
        "needTime" : 42672,
        "needYield" : 0,
        "saveState" : 44,
        "restoreState" : 44,
        "isEOF" : 1,
        "docsExamined" : 2030,
        "alreadyHasObj" : 0,
        "inputStage" : {
          "stage" : "IXSCAN",
          "filter" : {
            "productName" : {
              "$regex" : ". *11. *"
            }
          }
        }
      }
    },

```



```

        "nReturned" : 2030,
        "executionTimeMillisEstimate" : 42,
        "works" : 44703,
        "advanced" : 2030,
        "needTime" : 42672,
        "needYield" : 0,
        "saveState" : 44,
        "restoreState" : 44,
        "isEOF" : 1,
        "keyPattern" : {
            "productName" : 1
        },
        "indexName" : "productName_1",
        "isMultiKey" : false,
        "multiKeyPaths" : {
            "productName" : [ ]
        },
        "isUnique" : false,
        "isSparse" : false,
        "isPartial" : false,
        "indexVersion" : 2,
        "direction" : "forward",
        "indexBounds" : {
            "productName" : [
                "[\\", {}]",
                "[/*11.*/*11.*/*]"
            ]
        },
        "keysExamined" : 44702,
        "seeks" : 1,
        "dupsTested" : 0,
        "dupsDropped" : 0
    }
}
},
"serverInfo" : {
    "host" : "Nico-ASUS",
    "port" : 27017,
    "version" : "4.4.6",
    "gitVersion" : "72e66213c2c3eab37d9358d5e78ad7f5c1d0d0d7"
},
"ok" : 1
}

```

13. Busque las compras enviadas dentro de la ciudad de Buenos Aires. Para esto, puede definir una variable en la terminal y asignarle como valor el polígono del archivo provisto caba.geojson (copiando y pegando directamente). Cree un índice geoespacial de tipo 2dsphere para el campo location de la colección purchases y, de la misma forma que en el punto 12, compare la performance de la consulta con y sin dicho índice.

creamos el índice location

```
> db.purchases.createIndex({ location: "2dsphere"});
{
  "createdCollectionAutomatically" : false,
  "numIndexesBefore" : 2,
  "numIndexesAfter" : 3,
  "ok" : 1
}
```

cargamos la variable comprasbsas con los datos del archivo.

```
var comprasbsas = {
  "type": "MultiPolygon",
  "coordinates": [[[
    [-58.46305847167969, -34.53456089748654],
    [-58.49979400634765, -34.54983198845187],
    [-58.532066345214844, -34.614561581608186],
    [-58.528633117675774, -34.6538270014492],
    [-58.48674774169922, -34.68742794931483],
    [-58.479881286621094, -34.68206400648744],
    [-58.46855163574218, -34.65297974261105],
    [-58.465118408203125, -34.64733112904415],
    [-58.4585952758789, -34.63998735602951],
    [-58.45344543457032, -34.63603274732642],
    [-58.447265625, -34.63575026806082],
    [-58.438339233398445, -34.63038297923296],
    [-58.38100433349609, -34.62162507826766],
    [-58.38237762451171, -34.59251960889388],
    [-58.378944396972656, -34.5843230246475],
    [-58.46305847167969, -34.53456089748654]
  ]]]
}
```

Ejecutamos la consulta

```
> db.purchases.find( { location: { $geoWithin: { $geometry: comprasbsas
}}}).explain("executionStats");
```

```
{
  "queryPlanner" : {
    "plannerVersion" : 1,
    "namespace" : "test.purchases",
    "indexFilterSet" : false,
    "parsedQuery" : {
      "location" : {
        "$geoWithin" : {
          "$geometry" : {
            "type" : "MultiPolygon",
            "coordinates" : [
              [
                [
                  [
                    -58.46305847167969,
                    -34.53456089748654
                  ],
                  [
                    -58.49979400634765,
                    -34.54983198845187
                  ],
                  [
                    -58.532066345214844,
                    -34.614561581608186
                  ],
                  [
                    -58.528633117675774,
                    -34.6538270014492
                  ],
                  [
                    -58.48674774169922,
                    -34.68742794931483
                  ],
                  [
                    -58.479881286621094,
                    -34.68206400648744
                  ],
                  [
                    -58.46855163574218,
                    -34.65297974261105
                  ],
                  [
                    -58.465118408203125,
```

```

        -34.64733112904415
      ],
      [
        -58.4585952758789,
        -34.63998735602951
      ],
      [
        -58.45344543457032,
        -34.63603274732642
      ],
      [
        -58.447265625,
        -34.63575026806082
      ],
      [
        -58.438339233398445,
        -34.63038297923296
      ],
      [
        -58.38100433349609,
        -34.62162507826766
      ],
      [
        -58.38237762451171,
        -34.59251960889388
      ],
      [
        -58.378944396972656,
        -34.5843230246475
      ],
      [
        -58.46305847167969,
        -34.53456089748654
      ]
    ]
  ]
}
}
}
},
"winningPlan" : {
  "stage" : "FETCH",
  "filter" : {
    "location" : {
      "$geoWithin" : {
        "$geometry" : {
          "type" : "MultiPolygon",
          "coordinates" : [

```

```

[
  [
    [
      -58.46305847167969,
      -34.53456089748654
    ],
    [
      -58.49979400634765,
      -34.54983198845187
    ],
    [
      -58.532066345214844,
      -34.614561581608186
    ],
    [
      -58.528633117675774,
      -34.6538270014492
    ],
    [
      -58.48674774169922,
      -34.68742794931483
    ],
    [
      -58.479881286621094,
      -34.68206400648744
    ],
    [
      -58.46855163574218,
      -34.65297974261105
    ],
    [
      -58.465118408203125,
      -34.64733112904415
    ],
    [
      -58.4585952758789,
      -34.63998735602951
    ],
    [
      -58.45344543457032,
      -34.63603274732642
    ],
    [
      -58.447265625,
      -34.63575026806082
    ],
    [
      -58.438339233398445,
      -34.63038297923296
    ]
  ]
]

```

```

    ],
    [
        -58.38100433349609,
        -34.62162507826766
    ],
    [
        -58.38237762451171,
        -34.59251960889388
    ],
    [
        -58.378944396972656,
        -34.5843230246475
    ],
    [
        -58.46305847167969,
        -34.53456089748654
    ]
    ]
    ]
    ]
    }
    }
    },
    "inputStage" : {
        "stage" : "IXSCAN",
        "keyPattern" : {
            "location" : "2dsphere"
        },
        "indexName" : "location_2dsphere",
        "isMultiKey" : false,
        "multiKeyPaths" : {
            "location" : [ ]
        },
        "isUnique" : false,
        "isSparse" : false,
        "isPartial" : false,
        "indexVersion" : 2,
        "direction" : "forward",
        "indexBounds" : {
            "location" : [
                "[-7710162562058289152, -7710162562058289152]",
                "[-7660622966157213696, -7660622966157213696]",
                "[-7657245266436685824, -7657245266436685824]",
                "[-7657051752390197248, -7657051752390197248]",
                "[-7657047354343686144, -7657047354343686144]",
                "[-7657047354343686143, -7657046804587872257]",
                "[-7657046254832058368, -7657046254832058368]",
                "[-7657046220472319999, -7657046186112581633]"
            ]
        }
    }
}

```

"[-7657046186112581632, -7657046186112581632]",  
"[-7657045979954151424, -7657045979954151424]",  
"[-7657045911234674688, -7657045911234674688]",  
"[-7657045876874936319, -7657045842515197953]",  
"[-7657045842515197951, -7657045705076244481]",  
"[-7657045705076244479, -7657045155320430593]",  
"[-7657045155320430591, -7657044605564616705]",  
"[-7657044605564616703, -7657044055808802817]",  
"[-7657044055808802816, -7657044055808802816]",  
"[-7657044055808802815, -7657044021449064449]",  
"[-7657043987089326080, -7657043987089326080]",  
"[-7657043780930895872, -7657043780930895872]",  
"[-7657043506052988927, -7657042956297175041]",  
"[-7657034160204152832, -7657034160204152832]",  
"[-7657025295391653888, -7657025295391653888]",  
"[-7657025243852046336, -7657025243852046336]",  
"[-7657025230967144448, -7657025230967144448]",  
"[-7657025227745918976, -7657025227745918976]",  
"[-7657025226940612608, -7657025226940612608]",  
"[-7657025226739286016, -7657025226739286016]",  
"[-7657025226688954368, -7657025226688954368]",  
"[-7657025226680565759, -7657025226672177153]",  
"[-7657025226672177151, -7657025089233223681]",  
"[-7657025089233223680, -7657025089233223680]",  
"[-7657025089233223679, -7657024951794270209]",  
"[-7657024539477409792, -7657024539477409792]",  
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]

}

}

},

"rejectedPlans" : [ ]

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  "executionStages" : {
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    "filter" : {
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  },
}

```



```

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```

"alreadyHasObj" : 0,
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  "isMultiKey" : false,
  "multiKeyPaths" : {
    "location" : [ ]
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  "isUnique" : false,
  "isSparse" : false,
  "isPartial" : false,
  "indexVersion" : 2,
  "direction" : "forward",
  "indexBounds" : {
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```

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    "gitVersion" : "72e66213c2c3eab37d9358d5e78ad7f5c1d0d0d7"
},
"ok" : 1
}

```

Me queda la duda sobre este punto y el anterior donde te pido con y sin índices...

Sin índices sería antes de crear el índice, sería copiar nuevamente las líneas de ejecución sin la que crea el índice.

#### Parte 4: Aggregation Framework

14. Obtenga 5 productos aleatorios de la colección.

```
> db.purchases.aggregate([{$sample: {size: 5}}]);
```

```
{ "_id" : ObjectId("60b3e372f4beed6aedbf27fc"), "productName" : "Product 5764", "shippingCost" :  
700, "location" : { "type" : "Point", "coordinates" : [ -58.53253181385281, -34.61815183544373 ] } }  
{ "_id" : ObjectId("60b3e379f4beed6aedbf6e62"), "productName" : "Product 25821",  
"shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.50195162637672,  
-34.62370458195965 ] } }  
{ "_id" : ObjectId("60b3e374f4beed6aedbf437b"), "productName" : "Product 13352",  
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.4449892547828,  
-34.59682237136107 ] } }  
{ "_id" : ObjectId("60b3e379f4beed6aedbf71ab"), "productName" : "Product 26709",  
"shippingCost" : 1400, "location" : { "type" : "Point", "coordinates" : [ -58.418007786042544,  
-34.69603621171583 ] } }  
{ "_id" : ObjectId("60b3e37af4beed6aedbf8095"), "productName" : "Product 30887",  
"shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.60714050777731,  
-34.60248853530709 ] } }
```

15. Usando el framework de agregación, obtenga las compras que se hayan enviado a 1km (o menos) del centro de la ciudad de Buenos Aires ([-58.4586,-34.5968]) y guárdelas en una nueva colección.

```
db.purchases.aggregate([{$geoNear: {near: { type: "Point", coordinates: [-58.4586,-34.5968]  
},spherical: true,distanceField: "distance",maxDistance : 1000}}, { $out: "col_resultado" }]);
```

Mostramos el contenido de la nueva colección col\_resultado.

```
> db.col_resultado.find();
```

```
{ "_id" : ObjectId("60b3e37bf4beed6aedbf82b6"), "productName" : "Product 31452",  
"shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.45936728168301,  
-34.596502678907825 ] }, "distance" : 77.70996928304233 }  
{ "_id" : ObjectId("60b3e380f4beed6aedbfbbba8"), "productName" : "Product 48095",  
"shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.45757274919443,  
-34.597872101465995 ] }, "distance" : 151.9994245846854 }  
{ "_id" : ObjectId("60b3e376f4beed6aedbf549d"), "productName" : "Product 18420",  
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.4598478572937,  
-34.59571615395789 ] }, "distance" : 166.22957421698536 }
```

```

{ "_id" : ObjectId("60b3e37df4beed6aedbf9682"), "productName" : "Product 37184",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.4567834334226,
-34.596772848773576 ] }, "distance" : 166.48694446876308 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5ddc"), "productName" : "Product 21257",
"shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.456844492496785,
-34.59751040518714 ] }, "distance" : 179.2512494559932 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf6ea6"), "productName" : "Product 25886",
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.458546691873195,
-34.598492949674615 ] }, "distance" : 188.52049852988696 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9dd9"), "productName" : "Product 39364",
"shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.45881470117746,
-34.59871237541952 ] }, "distance" : 213.79056878270637 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf6257"), "productName" : "Product 45382", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.460874936751, -34.59725287259835 ] },
"distance" : 214.47049406234132 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf657e"), "productName" : "Product 46276",
"shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.460518844884035,
-34.59793649121557 ] }, "distance" : 216.61454651464697 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf1d4e"), "productName" : "Product 2632", "shippingCost"
: 1400, "location" : { "type" : "Point", "coordinates" : [ -58.45731183601307, -34.5950803825193 ] },
"distance" : 224.8944767322798 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf13f1"), "productName" : "Product 50", "shippingCost" :
1400, "location" : { "type" : "Point", "coordinates" : [ -58.4584686201725, -34.59884364300157 ] },
"distance" : 227.81429105453418 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6869"), "productName" : "Product 24129",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46048654238071,
-34.59539298116497 ] }, "distance" : 233.27527517644242 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf380c"), "productName" : "Product 10281", "shippingCost"
: 1500, "location" : { "type" : "Point", "coordinates" : [ -58.45597419700375, -34.59661443677135 ]
}, "distance" : 241.49847724044335 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf6175"), "productName" : "Product 22265",
"shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.46136233446403,
-34.597348424157204 ] }, "distance" : 260.3814059270074 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf72a5"), "productName" : "Product 26931",
"shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.46145190673874,
-34.59650510254345 ] }, "distance" : 263.3862039239507 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfbc09"), "productName" : "Product 48217", "shippingCost"
: 500, "location" : { "type" : "Point", "coordinates" : [ -58.45628566652719, -34.59829016685534 ] },
"distance" : 269.241666857069 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf57da"), "productName" : "Product 19382",
"shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.457950594613735,
-34.59440456961663 ] }, "distance" : 273.2159945427539 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbc087"), "productName" : "Product 49425", "shippingCost"
: 500, "location" : { "type" : "Point", "coordinates" : [ -58.455617996583705, -34.59706413852729 ]
}, "distance" : 274.8302706566834 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4650"), "productName" : "Product 14127",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.45814521845603,
-34.594285840631876 ] }, "distance" : 282.95902056629853 }

```

```

{ "_id" : ObjectId("60b3e377f4beed6aedbf5baa"), "productName" : "Product 20588",
"shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45553274790033,
-34.5960900831665 ] }, "distance" : 291.9648364941043 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf8080"), "productName" : "Product 30867",
"shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.4553473535934,
-34.59691345569374 ] }, "distance" : 298.3206556455789 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1c72"), "productName" : "Product 2383", "shippingCost" :
800, "location" : { "type" : "Point", "coordinates" : [ -58.461694181988506, -34.597680963308285 ]
}, "distance" : 300.0120072626062 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaf33"), "productName" : "Product 44417", "shippingCost"
: 1400, "location" : { "type" : "Point", "coordinates" : [ -58.455890647451206, -34.59521150906388 ]
}, "distance" : 304.8068731143005 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9b15"), "productName" : "Product 38566",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.45948592260158,
-34.59412084183443 ] }, "distance" : 309.09237320820705 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaf8e"), "productName" : "Product 44536", "shippingCost"
: 2200, "location" : { "type" : "Point", "coordinates" : [ -58.45928738842486, -34.59960070357344 ]
}, "distance" : 318.070109405001 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf5519"), "productName" : "Product 18539",
"shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.45654252926412,
-34.59441863833735 ] }, "distance" : 325.29866346161583 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7d4e"), "productName" : "Product 29935",
"shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.459852029158874,
-34.5995665989804 ] }, "distance" : 328.6496115942656 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf42ec"), "productName" : "Product 13183", "shippingCost"
: 1200, "location" : { "type" : "Point", "coordinates" : [ -58.46137369116345, -34.59489771117959 ]
}, "distance" : 330.82283545670447 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa38a"), "productName" : "Product 41037",
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.461297380062994,
-34.598781567466986 ] }, "distance" : 331.2863717548935 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf76e4"), "productName" : "Product 28154",
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.45842481096819,
-34.5938120989266 ] }, "distance" : 332.99688842995783 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5f92"), "productName" : "Product 21747", "shippingCost"
: 1600, "location" : { "type" : "Point", "coordinates" : [ -58.46060124494585, -34.594238711387305 ]
}, "distance" : 339.0034657816861 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2dbe"), "productName" : "Product 7419", "shippingCost"
: 600, "location" : { "type" : "Point", "coordinates" : [ -58.46193569642407, -34.598283312417415 ]
}, "distance" : 347.40954634998195 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3bd4"), "productName" : "Product 11309",
"shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.45980883891185,
-34.59365812872594 ] }, "distance" : 366.872394630182 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf261c"), "productName" : "Product 5196", "shippingCost" :
1000, "location" : { "type" : "Point", "coordinates" : [ -58.46078236020642, -34.59393960259262 ] },
"distance" : 376.0075477044664 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaa5c"), "productName" : "Product 43042", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.45462969453565, -34.59784437621125 ] },
"distance" : 381.93731633922715 }

```

```

{ "_id" : ObjectId("60b3e37ff4beed6aedbfabff"), "productName" : "Product 43456", "shippingCost" :
500, "location" : { "type" : "Point", "coordinates" : [ -58.4546994750037, -34.59546494816303 ] },
"distance" : 387.09016143719447 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfc1f3"), "productName" : "Product 49855", "shippingCost"
: 800, "location" : { "type" : "Point", "coordinates" : [ -58.4618673956341, -34.5990471912533 ] },
"distance" : 390.15160470518657 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf4115"), "productName" : "Product 12735",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.4627819873737,
-34.59756155786193 ] }, "distance" : 392.4762144528371 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1b34"), "productName" : "Product 2008", "shippingCost"
: 1800, "location" : { "type" : "Point", "coordinates" : [ -58.45501278951194, -34.59884049934245 ]
}, "distance" : 399.55413288026665 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf67b"), "productName" : "Product 46582",
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.45764537169794,
-34.60032849895993 ] }, "distance" : 402.4109431087568 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6d5b"), "productName" : "Product 25531",
"shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.458344806240056,
-34.60042364938129 ] }, "distance" : 404.0576785021114 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6472"), "productName" : "Product 23062",
"shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.45565827283432,
-34.59406214751468 ] }, "distance" : 406.8831800640974 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbeed"), "productName" : "Product 48970",
"shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.455353965219054,
-34.594278105705335 ] }, "distance" : 409.0103992442215 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7a00"), "productName" : "Product 28986",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.45541257436961,
-34.59416457169282 ] }, "distance" : 413.9797914185956 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1a94"), "productName" : "Product 1896", "shippingCost"
: 600, "location" : { "type" : "Point", "coordinates" : [ -58.462554560708384, -34.59862597012578 ]
}, "distance" : 415.48489035323263 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf45f7"), "productName" : "Product 14024", "shippingCost"
: 600, "location" : { "type" : "Point", "coordinates" : [ -58.46272759002483, -34.598415933360734 ]
}, "distance" : 418.82202869668293 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6b8b"), "productName" : "Product 25047",
"shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45759013705992,
-34.6005031274752 ] }, "distance" : 422.4863325830005 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbe36"), "productName" : "Product 48770",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.454229165921234,
-34.59554084088286 ] }, "distance" : 424.339291724474 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf454b"), "productName" : "Product 13825",
"shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.4603780086062,
-34.593208455016736 ] }, "distance" : 431.73077363152004 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa983"), "productName" : "Product 42743",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.45525066443399,
-34.59400438425076 ] }, "distance" : 437.0896835647951 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8af7"), "productName" : "Product 33879", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.46268708373895, -34.59471898294088 ] },
"distance" : 440.3756173379455 }

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{ "_id" : ObjectId("60b3e37af4beed6aedbf7a11"), "productName" : "Product 29004",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.46157370154933,
-34.593659685685545 ] }, "distance" : 443.236366499599 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaba0"), "productName" : "Product 43346", "shippingCost"
: 300, "location" : { "type" : "Point", "coordinates" : [ -58.459372697577116, -34.59280911464885 ]
}, "distance" : 449.868054570477 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7f3f"), "productName" : "Product 30548", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.4579893820304, -34.60081343057342 ] },
"distance" : 450.26045415292623 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf68db"), "productName" : "Product 24283",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45682622992129,
-34.600633560913344 ] }, "distance" : 456.6517579138509 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7ef3"), "productName" : "Product 30459", "shippingCost"
: 500, "location" : { "type" : "Point", "coordinates" : [ -58.4535688890438, -34.596303558714 ] },
"distance" : 464.32322165747024 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf9069"), "productName" : "Product 35440", "shippingCost"
: 1000, "location" : { "type" : "Point", "coordinates" : [ -58.46181056321423, -34.60003082845758 ]
}, "distance" : 464.64848576983206 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf526"), "productName" : "Product 46180",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.459693643233706,
-34.60089074638932 ] }, "distance" : 466.27343865897586 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4e4c"), "productName" : "Product 16507", "shippingCost"
: 1800, "location" : { "type" : "Point", "coordinates" : [ -58.46172574828089, -34.600201449503835 ]
}, "distance" : 474.77193855022745 }
{ "_id" : ObjectId("60b3e381f4beed6aedbf08a"), "productName" : "Product 49427", "shippingCost"
: 2100, "location" : { "type" : "Point", "coordinates" : [ -58.459643746615654, -34.5925072108912 ]
}, "distance" : 487.34603206679594 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7c98"), "productName" : "Product 29736", "shippingCost"
: 800, "location" : { "type" : "Point", "coordinates" : [ -58.45407897468102, -34.59445043092497 ] },
"distance" : 489.9408233844527 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4d8b"), "productName" : "Product 16294",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.45708217917217,
-34.601040324894164 ] }, "distance" : 492.0913727189777 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf325a"), "productName" : "Product 8670", "shippingCost"
: 1500, "location" : { "type" : "Point", "coordinates" : [ -58.45749653708612, -34.60132696047189 ]
}, "distance" : 513.9797269096962 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf895b"), "productName" : "Product 33393",
"shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.46350978124762,
-34.59904453448951 ] }, "distance" : 514.6233468570338 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6347"), "productName" : "Product 22734",
"shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.452990705490194,
-34.5960642720597 ] }, "distance" : 520.4890558747048 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf142c"), "productName" : "Product 113", "shippingCost" :
1700, "location" : { "type" : "Point", "coordinates" : [ -58.45468254719775, -34.60018589497967 ] },
"distance" : 520.4997506790953 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf767b"), "productName" : "Product 28031",
"shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.455215018204385,
-34.59297581445764 ] }, "distance" : 526.7255270118666 }

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{ "_id" : ObjectId("60b3e37cf4beed6aedbf90e2"), "productName" : "Product 35605", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45532371608588, -34.60070439071108 ] }, "distance" : 528.2354143336398 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf18a9"), "productName" : "Product 1378", "shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.45983810565691, -34.59214033555719 ] }, "distance" : 530.9714802526559 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8935"), "productName" : "Product 33344", "shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.45281681455699, -34.59726408852087 ] }, "distance" : 532.4478493433256 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1a4b"), "productName" : "Product 1809", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.459941558175494, -34.59214066088452 ] }, "distance" : 533.0423526602638 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4bb7"), "productName" : "Product 15755", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45823274870368, -34.601589212562125 ] }, "distance" : 534.1906254740992 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf47e6"), "productName" : "Product 14605", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.46444194485399, -34.59657293622296 ] }, "distance" : 535.918619456457 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf351a"), "productName" : "Product 9489", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.45823254521655, -34.60161870553594 ] }, "distance" : 537.4684354734524 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8203"), "productName" : "Product 31279", "shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.46443941168917, -34.59728093732153 ] }, "distance" : 537.7594338261437 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2c7f"), "productName" : "Product 7048", "shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.46147259856792, -34.59253468859505 ] }, "distance" : 542.8965449898435 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa7fa"), "productName" : "Product 42256", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45898990446379, -34.5918854847987 ] }, "distance" : 548.2436628084639 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf7fd"), "productName" : "Product 47047", "shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.46435954874801, -34.59545829273866 ] }, "distance" : 548.502072160991 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1857"), "productName" : "Product 1269", "shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.45329810439735, -34.594473747886205 ] }, "distance" : 550.5450595401187 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3f08"), "productName" : "Product 12177", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.463748873991136, -34.59412312184354 ] }, "distance" : 558.0416537862403 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf71cc"), "productName" : "Product 26748", "shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.464446222417195, -34.59824097229954 ] }, "distance" : 559.2087658225183 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf1a1a"), "productName" : "Product 42928", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.456601322595446, -34.5919948730465 ] }, "distance" : 565.3884113723947 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf4297"), "productName" : "Product 13096", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.46131104258359, -34.592216502190354 ] }, "distance" : 567.4964481034274 }

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{ "_id" : ObjectId("60b3e37bf4beed6aedbf86d1"), "productName" : "Product 32725",
"shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45240068142503,
-34.59662640684741 ] }, "distance" : 568.398279573836 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6d43"), "productName" : "Product 25512",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45830025704883,
-34.59168537902412 ] }, "distance" : 570.0158773893285 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa286"), "productName" : "Product 40730",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.455550188648076,
-34.59231782360107 ] }, "distance" : 571.8895838417976 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8bf9"), "productName" : "Product 34208", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.45594359261793, -34.601457962627386 ]
}, "distance" : 572.8095288300213 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2d2b"), "productName" : "Product 7248", "shippingCost"
: 900, "location" : { "type" : "Point", "coordinates" : [ -58.46436584166543, -34.59880101381128 ] },
"distance" : 573.378154473215 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1b88"), "productName" : "Product 2117", "shippingCost"
: 1900, "location" : { "type" : "Point", "coordinates" : [ -58.4617528442782, -34.592311089839896 ]
}, "distance" : 577.2112191532422 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6d52"), "productName" : "Product 25523",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.46382993710838,
-34.5938604421456 ] }, "distance" : 580.3085791364574 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2def"), "productName" : "Product 7472", "shippingCost" :
300, "location" : { "type" : "Point", "coordinates" : [ -58.45225696499399, -34.597068443964375 ] },
"distance" : 582.0051618862577 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5ca8"), "productName" : "Product 20853", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46498315184308, -34.596521907560685 ]
}, "distance" : 585.7341138618837 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6bab"), "productName" : "Product 25080",
"shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46386262651712,
-34.59379464328097 ] }, "distance" : 586.9290590163827 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf40ca"), "productName" : "Product 12648", "shippingCost"
: 700, "location" : { "type" : "Point", "coordinates" : [ -58.453265481805445, -34.59979052407322 ]
}, "distance" : 591.4082482058715 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf779e"), "productName" : "Product 28311",
"shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45640602392134,
-34.59179124912994 ] }, "distance" : 592.7083854834058 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf68cd"), "productName" : "Product 24264", "shippingCost"
: 800, "location" : { "type" : "Point", "coordinates" : [ -58.45477445066864, -34.601178320278315 ]
}, "distance" : 600.3565595014968 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbe3d"), "productName" : "Product 48775",
"shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.455715946855605,
-34.60164373022892 ] }, "distance" : 600.4778003251905 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2981"), "productName" : "Product 6184", "shippingCost"
: 1000, "location" : { "type" : "Point", "coordinates" : [ -58.45531585953131, -34.59208133738518 ]
}, "distance" : 605.3796926347252 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9608"), "productName" : "Product 37069",
"shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.453715089201495,
-34.600493521837706 ] }, "distance" : 607.7912205688044 }

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{ "_id" : ObjectId("60b3e375f4beed6aedbf4c3f"), "productName" : "Product 15916", "shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.4641677297188, -34.59979817658557 ] }, "distance" : 609.6556170027341 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf22d"), "productName" : "Product 45334", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.455431444328354, -34.601623995147705 ] }, "distance" : 610.4651010371714 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf8f1c"), "productName" : "Product 35073", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.45198185490267, -34.59744286840383 ] }, "distance" : 610.653361465779 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf96ed"), "productName" : "Product 37295", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46422957936457, -34.593833275980444 ] }, "distance" : 612.5269141199763 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf90a8"), "productName" : "Product 35546", "shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.45592965433281, -34.601854631831394 ] }, "distance" : 613.5763359856988 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf36e6"), "productName" : "Product 9961", "shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.45220873007906, -34.59510700081972 ] }, "distance" : 615.2405555769859 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8a84"), "productName" : "Product 33768", "shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.46513356839406, -34.59813684450276 ] }, "distance" : 616.9112364578082 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf187"), "productName" : "Product 45140", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.464054620689616, -34.600090521292245 ] }, "distance" : 619.6716981526553 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6c8f"), "productName" : "Product 25326", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46064114178956, -34.602119150138 ] }, "distance" : 620.9582176976959 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3f6e"), "productName" : "Product 12270", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.454391975185686, -34.601208734567706 ] }, "distance" : 624.1304063722349 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf610f"), "productName" : "Product 22125", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.4518077447213, -34.59750778201024 ] }, "distance" : 627.366837153143 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf7192"), "productName" : "Product 26680", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45794757226113, -34.60241072554395 ] }, "distance" : 627.4340586015089 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbe27"), "productName" : "Product 48760", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.45588560882892, -34.591619039588906 ] }, "distance" : 628.0909357542059 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6788"), "productName" : "Product 23891", "shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.4556629746475, -34.601904511579775 ] }, "distance" : 628.737526993697 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf2109"), "productName" : "Product 3710", "shippingCost" : 1400, "location" : { "type" : "Point", "coordinates" : [ -58.460853955231755, -34.60221925474384 ] }, "distance" : 637.6398167383003 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf5da"), "productName" : "Product 46381", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.463084234558124, -34.59236031524549 ] }, "distance" : 642.7356527597533 }

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{ "_id" : ObjectId("60b3e370f4beed6aedbf167a"), "productName" : "Product 759", "shippingCost" :
2100, "location" : { "type" : "Point", "coordinates" : [ -58.46285855690664, -34.59216045337458 ] },
"distance" : 647.3233088127284 }
{ "_id" : ObjectId("60b3e381f4beed6aedbf1ab"), "productName" : "Product 49758", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.456903229712694, -34.602466469940566 ]
}, "distance" : 649.663448050138 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa053"), "productName" : "Product 40099",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.4656357519366,
-34.597601068032404 ] }, "distance" : 650.8497054755702 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9cf0"), "productName" : "Product 39110", "shippingCost"
: 1100, "location" : { "type" : "Point", "coordinates" : [ -58.46169959810518, -34.60214154134008 ]
}, "distance" : 658.963819592794 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfba96"), "productName" : "Product 47754",
"shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.4649499986042,
-34.59399113991181 ] }, "distance" : 660.5754654823838 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf49c7"), "productName" : "Product 15123", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46583033762562, -34.59572844726507 ]
}, "distance" : 673.2020835360917 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9ae8"), "productName" : "Product 38503",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45232287048085,
-34.599964643841396 ] }, "distance" : 674.4967958381106 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3cd5"), "productName" : "Product 11576", "shippingCost"
: 2200, "location" : { "type" : "Point", "coordinates" : [ -58.453742212340686, -34.5922068817698 ]
}, "distance" : 677.9292684763675 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4a80"), "productName" : "Product 15366",
"shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.456094704346974,
-34.591047919261435 ] }, "distance" : 680.227588214445 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf9a98"), "productName" : "Product 43102", "shippingCost"
: 800, "location" : { "type" : "Point", "coordinates" : [ -58.46594125361199, -34.595702194038005 ]
}, "distance" : 683.7237965615719 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf8e42"), "productName" : "Product 34866", "shippingCost"
: 2200, "location" : { "type" : "Point", "coordinates" : [ -58.465816117453365, -34.595190351222136
] }, "distance" : 685.0964942553649 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf413f"), "productName" : "Product 12777", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46361554532102, -34.592221070736215 ]
}, "distance" : 686.3343939217611 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf1e0b"), "productName" : "Product 2884", "shippingCost"
: 600, "location" : { "type" : "Point", "coordinates" : [ -58.45858100897706, -34.60297935161058 ] },
"distance" : 687.8804853538032 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf1ea0"), "productName" : "Product 3070", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.46480022281661, -34.60029402819807 ] },
"distance" : 688.5245796490287 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf6dc7"), "productName" : "Product 25661", "shippingCost"
: 600, "location" : { "type" : "Point", "coordinates" : [ -58.46123123536575, -34.60264439027691 ] },
"distance" : 693.8290501470598 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5b68"), "productName" : "Product 20504",
"shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46620952035352,
-34.59645185151097 ] }, "distance" : 698.3693458070852 }

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{ "_id" : ObjectId("60b3e379f4beed6aedbf7724"), "productName" : "Product 28206",
"shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.453163121754756,
-34.60122043926156 ] }, "distance" : 700.2389021978976 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf32a4"), "productName" : "Product 8733", "shippingCost"
: 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45819454544297, -34.60308729075168 ]
}, "distance" : 700.8793119480223 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf15fa"), "productName" : "Product 610", "shippingCost" :
1900, "location" : { "type" : "Point", "coordinates" : [ -58.45449011639401, -34.59145111923264 ] },
"distance" : 704.5418619167043 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2d11"), "productName" : "Product 7226", "shippingCost"
: 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46527480140579, -34.59994911537619 ]
}, "distance" : 704.9668005645494 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf48d7"), "productName" : "Product 14858",
"shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.458459122511954,
-34.6031537533448 ] }, "distance" : 707.410271393707 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3d5a"), "productName" : "Product 11758",
"shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.46420705492487,
-34.59238402016862 ] }, "distance" : 711.0939399582439 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf364a"), "productName" : "Product 9783", "shippingCost"
: 700, "location" : { "type" : "Point", "coordinates" : [ -58.45087776025215, -34.59758651355514 ] },
"distance" : 713.0132534348464 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf83aa"), "productName" : "Product 31721",
"shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.45268730916313,
-34.60100334048792 ] }, "distance" : 715.8754582907987 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbf9ffe"), "productName" : "Product 39977", "shippingCost"
: 1100, "location" : { "type" : "Point", "coordinates" : [ -58.46630524657814, -34.595645968558166 ]
}, "distance" : 717.6600513850385 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf9090"), "productName" : "Product 35498", "shippingCost"
: 1100, "location" : { "type" : "Point", "coordinates" : [ -58.4540030701286, -34.591541417208866 ]
}, "distance" : 721.1932347494477 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf82a9"), "productName" : "Product 31446",
"shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.46059391979902,
-34.59047555055292 ] }, "distance" : 727.3545888153718 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa2b4"), "productName" : "Product 40796",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.451951644149844,
-34.6004158178403 ] }, "distance" : 730.1653885938166 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7a54"), "productName" : "Product 29075",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46329964701654,
-34.6021225969737 ] }, "distance" : 732.4673502141356 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7d37"), "productName" : "Product 29916",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.46590654676596,
-34.59408965658916 ] }, "distance" : 734.380008759873 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7d14"), "productName" : "Product 29879",
"shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.45155267340858,
-34.59999650314902 ] }, "distance" : 737.3098181617103 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfabb8"), "productName" : "Product 43365", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.456393781154645, -34.59039540674927 ]
}, "distance" : 741.0629205921269 }

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{ "_id" : ObjectId("60b3e37cf4beed6aedbf94da"), "productName" : "Product 36716", "shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.458709313631886, -34.59014268984692 ] }, "distance" : 741.1517759275832 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2739"), "productName" : "Product 5536", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.45891057000358, -34.603491263476336 ] }, "distance" : 745.4071389498173 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf8057"), "productName" : "Product 30832", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45716095934075, -34.60341046021717 ] }, "distance" : 747.5894188286799 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9a54"), "productName" : "Product 38307", "shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.46166949111294, -34.590549757263226 ] }, "distance" : 750.4761485871655 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf1d9b"), "productName" : "Product 2747", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.450421792739725, -34.597179024099674 ] }, "distance" : 750.5879311408811 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf8048"), "productName" : "Product 30818", "shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.4622677552749, -34.60283676051029 ] }, "distance" : 751.3589716478386 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5e36"), "productName" : "Product 21366", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46024556669899, -34.59017470555977 ] }, "distance" : 752.7784464326893 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf440c"), "productName" : "Product 13488", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.46576535973772, -34.60012198434382 ] }, "distance" : 753.5560437929829 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf85db"), "productName" : "Product 32423", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.451655141292086, -34.59316675914524 ] }, "distance" : 754.044562810831 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf62a9"), "productName" : "Product 22576", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.454919875817644, -34.59073094848988 ] }, "distance" : 755.0920906196407 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4744"), "productName" : "Product 14431", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46039841812308, -34.59017032487016 ] }, "distance" : 756.1848466352411 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9c5d"), "productName" : "Product 38931", "shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.45077378161251, -34.594593100568424 ] }, "distance" : 758.0694760390286 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaf90"), "productName" : "Product 44545", "shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.46150759214067, -34.590412050153816 ] }, "distance" : 759.3780026656135 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf227b"), "productName" : "Product 4128", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.45253707179544, -34.60146591743917 ] }, "distance" : 760.5412383177312 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf506"), "productName" : "Product 46147", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.46636379416328, -34.59924075085382 ] }, "distance" : 761.5361471535398 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf151a"), "productName" : "Product 355", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45293791840163, -34.60181885349599 ] }, "distance" : 762.441066424086 }

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{ "_id" : ObjectId("60b3e376f4beed6aedbf58df"), "productName" : "Product 19735", "shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.451421407806286, -34.59333400221304 ] }, "distance" : 762.6202136805618 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa76f"), "productName" : "Product 42094", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.46656813986603, -34.59879812507305 ] }, "distance" : 763.2731730317141 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2f4c"), "productName" : "Product 7851", "shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.46515836947403, -34.601096963247976 ] }, "distance" : 768.0815076557064 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4d67"), "productName" : "Product 16261", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45456552874742, -34.59074137946179 ] }, "distance" : 769.1241814964765 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf498a"), "productName" : "Product 15071", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45602147747693, -34.60340359711185 ] }, "distance" : 772.1419400430407 }
{ "_id" : ObjectId("60b3e380f4beed6aedbf3f6"), "productName" : "Product 45799", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46585576244519, -34.59323523203886 ] }, "distance" : 774.3055176778539 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf764d"), "productName" : "Product 27962", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.45597098699396, -34.60341628867161 ] }, "distance" : 774.9128310616097 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1b81"), "productName" : "Product 2106", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.46133371212773, -34.59020575050499 ] }, "distance" : 775.6327676254489 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf8eb4"), "productName" : "Product 35001", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.45186121839559, -34.59257113771065 ] }, "distance" : 776.4895607767776 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf837f"), "productName" : "Product 31684", "shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.46683209673737, -34.59511284789466 ] }, "distance" : 777.3770602943231 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5dd3"), "productName" : "Product 21254", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.4526955616451, -34.591782768441064 ] }, "distance" : 777.6160744984217 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf78ca"), "productName" : "Product 28683", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.462984387057, -34.602800120866874 ] }, "distance" : 779.4387971327008 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf83a4"), "productName" : "Product 31712", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.46111571223805, -34.60352190816901 ] }, "distance" : 782.9770537090044 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5f85"), "productName" : "Product 21738", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.4506370592658, -34.59937235688371 ] }, "distance" : 783.8427686236156 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf5528"), "productName" : "Product 18551", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.46219107909591, -34.59039857255164 ] }, "distance" : 784.9142794115263 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf41a0"), "productName" : "Product 12860", "shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.45469973467332, -34.59051089834732 ] }, "distance" : 786.0510880057132 }

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{ "_id" : ObjectId("60b3e379f4beed6aedbf6e6f"), "productName" : "Product 25833", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45500493380384, -34.5903696097542 ] }, "distance" : 787.9952114275544 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfbd77"), "productName" : "Product 48645", "shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.4537984479894, -34.59092621554657 ] }, "distance" : 788.1231228228794 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf63ca"), "productName" : "Product 22873", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.45163302715418, -34.59262373671972 ] }, "distance" : 789.759429255815 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf677d"), "productName" : "Product 23882", "shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.461692326542, -34.60343856224423 ] }, "distance" : 791.4572916832834 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfabf4"), "productName" : "Product 43441", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.45037878209326, -34.599014651323124 ] }, "distance" : 792.6477101102577 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf983a"), "productName" : "Product 37690", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45276588845871, -34.60212167753672 ] }, "distance" : 797.9499306490899 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf38f8"), "productName" : "Product 10506", "shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.454229782548204, -34.590566018517634 ] }, "distance" : 801.2247027630532 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf44cf"), "productName" : "Product 13673", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45611395392735, -34.60373461556311 ] }, "distance" : 804.8624595409129 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5c0e"), "productName" : "Product 20669", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.46699986380414, -34.59467585339252 ] }, "distance" : 805.2249134870461 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf84c4"), "productName" : "Product 32142", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.45374920827431, -34.59063070784635 ] }, "distance" : 818.0650215768194 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf144f"), "productName" : "Product 140", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46556136220826, -34.5921710465383 ] }, "distance" : 820.0368568733152 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf66b9"), "productName" : "Product 23707", "shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.46755757750678, -34.59619619462292 ] }, "distance" : 823.5701405440917 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf44a7"), "productName" : "Product 13634", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.45211704723664, -34.59166336179729 ] }, "distance" : 824.553972504817 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbe9c"), "productName" : "Product 48857", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.46759278979634, -34.596534160417484 ] }, "distance" : 824.5788941212018 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf37d5"), "productName" : "Product 10241", "shippingCost" : 1200, "location" : { "type" : "Point", "coordinates" : [ -58.45458563503214, -34.59016916735909 ] }, "distance" : 824.7255125750706 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5c70"), "productName" : "Product 20785", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.44961275077145, -34.597341438568165 ] }, "distance" : 825.7386271812021 }

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{ "_id" : ObjectId("60b3e374f4beed6aedbf3d82"), "productName" : "Product 11802",
"shippingCost" : 1400, "location" : { "type" : "Point", "coordinates" : [ -58.44963122878899,
-34.5958578639135 ] }, "distance" : 828.5148809520574 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf18c3"), "productName" : "Product 1414", "shippingCost" :
2100, "location" : { "type" : "Point", "coordinates" : [ -58.44978493782344, -34.59507971914413 ] },
"distance" : 830.1581835442951 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9fd3"), "productName" : "Product 39926", "shippingCost"
: 900, "location" : { "type" : "Point", "coordinates" : [ -58.45456646468276, -34.59011954490511 ] },
"distance" : 830.4535783025814 }
{ "_id" : ObjectId("60b3e377f4beed6aedbf5ba1"), "productName" : "Product 20570",
"shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.46670055207036,
-34.600167277618624 ] }, "distance" : 831.5489839553542 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf43ef"), "productName" : "Product 13462", "shippingCost"
: 900, "location" : { "type" : "Point", "coordinates" : [ -58.461052248692155, -34.58959903908592 ]
}, "distance" : 832.5056253043547 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf435f"), "productName" : "Product 13293", "shippingCost"
: 2100, "location" : { "type" : "Point", "coordinates" : [ -58.45534375374715, -34.589811567626874 ]
}, "distance" : 833.2090193460232 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf42c7"), "productName" : "Product 13147", "shippingCost"
: 2100, "location" : { "type" : "Point", "coordinates" : [ -58.4663999725392, -34.60065415423287 ] },
"distance" : 833.6126547498138 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf39e6"), "productName" : "Product 10743",
"shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.465730922150954,
-34.601490866881896 ] }, "distance" : 836.43775636013 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9df8"), "productName" : "Product 39385", "shippingCost"
: 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46744077695721, -34.59491655592692 ]
}, "distance" : 836.8169668103534 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaab0"), "productName" : "Product 43114", "shippingCost"
: 1100, "location" : { "type" : "Point", "coordinates" : [ -58.451655114363454, -34.601702865275726
] }, "distance" : 838.3576951059199 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf338"), "productName" : "Product 45567", "shippingCost"
: 500, "location" : { "type" : "Point", "coordinates" : [ -58.45304907935254, -34.59081318688467 ] },
"distance" : 838.3891475325318 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfbb18"), "productName" : "Product 47911",
"shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.450183871407724,
-34.5937440922827 ] }, "distance" : 842.912114064915 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8387"), "productName" : "Product 31685",
"shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.46340850437564,
-34.5903294074484 ] }, "distance" : 844.3898984963213 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf82df"), "productName" : "Product 31485", "shippingCost"
: 2100, "location" : { "type" : "Point", "coordinates" : [ -58.45201214328918, -34.59147483379393 ]
}, "distance" : 846.0764613297728 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf2561"), "productName" : "Product 5012", "shippingCost"
: 700, "location" : { "type" : "Point", "coordinates" : [ -58.45003833544581, -34.59392136594176 ] },
"distance" : 847.4733379733141 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf24e3"), "productName" : "Product 4872", "shippingCost"
: 800, "location" : { "type" : "Point", "coordinates" : [ -58.46785908878304, -34.59606165951614 ] },
"distance" : 852.4239388662777 }

```

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{ "_id" : ObjectId("60b3e37cf4beed6aedbf955a"), "productName" : "Product 36846", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.46654324631563, -34.600790806322955 ] }, "distance" : 852.720676558154 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf91ba"), "productName" : "Product 35853", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.45060221480326, -34.60071727056961 ] }, "distance" : 852.7758835472935 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf79bf"), "productName" : "Product 28930", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45896073576986, -34.58911928187358 ] }, "distance" : 855.6474786632576 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9e58"), "productName" : "Product 39477", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.45352818435468, -34.603289098846155 ] }, "distance" : 858.9408969328392 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf6dc3"), "productName" : "Product 25655", "shippingCost" : 1700, "location" : { "type" : "Point", "coordinates" : [ -58.453004810347586, -34.59059171392682 ] }, "distance" : 860.5286925994361 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf52c7"), "productName" : "Product 17883", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.46125765249533, -34.604218351406736 ] }, "distance" : 860.9598264183895 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf89bf"), "productName" : "Product 33508", "shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.449460111705484, -34.59477876780032 ] }, "distance" : 867.2322584306314 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf1fb2"), "productName" : "Product 3335", "shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.46192270620749, -34.60409815896306 ] }, "distance" : 867.5980315973378 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf798d"), "productName" : "Product 28864", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.450324598072754, -34.592935609891185 ] }, "distance" : 871.8451170192737 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7997"), "productName" : "Product 28871", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.46709614081315, -34.6003803627479 ] }, "distance" : 874.6109564465179 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf9a1f"), "productName" : "Product 42937", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.45551750506332, -34.58935535728938 ] }, "distance" : 875.5475832916053 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf24e0"), "productName" : "Product 4868", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45488222001772, -34.58954648970815 ] }, "distance" : 876.3842123178069 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9c70"), "productName" : "Product 38951", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46130064133398, -34.58923806459769 ] }, "distance" : 877.4115022777617 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfbb4b"), "productName" : "Product 47962", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.45757688131146, -34.60464972448575 ] }, "distance" : 878.8367674935015 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1c90"), "productName" : "Product 2418", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.45028873983328, -34.59276792498916 ] }, "distance" : 884.0349476005766 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf39fc"), "productName" : "Product 10782", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.45018919735932, -34.60069881725695 ] }, "distance" : 884.5011658565547 }

```

```

{ "_id" : ObjectId("60b3e377f4beed6aedbf5c96"), "productName" : "Product 20833", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.454542858843816, -34.60401770330892 ] }, "distance" : 885.3028156466371 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1834"), "productName" : "Product 1219", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.46826138575916, -34.5969510944226 ] }, "distance" : 885.4715377973941 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf8cf1"), "productName" : "Product 34496", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.451155287370696, -34.60189449291024 ] }, "distance" : 887.1141196154161 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbfaf1f"), "productName" : "Product 44395", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45686886643776, -34.58894240530501 ] }, "distance" : 888.9675891459596 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9dfe"), "productName" : "Product 39397", "shippingCost" : 1400, "location" : { "type" : "Point", "coordinates" : [ -58.46048573800917, -34.588962862497674 ] }, "distance" : 889.3708524840811 }
{ "_id" : ObjectId("60b3e37cf4beed6aedbf8c42"), "productName" : "Product 34284", "shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.4680138633823, -34.598833225675 ] }, "distance" : 891.8196646710528 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf54b0"), "productName" : "Product 18432", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.46654311067271, -34.59214391147767 ] }, "distance" : 893.563360643702 }
{ "_id" : ObjectId("60b3e380f4beed6aedbfbb40"), "productName" : "Product 47953", "shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46495374873455, -34.59070353243819 ] }, "distance" : 894.1886697027626 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf222a"), "productName" : "Product 4033", "shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46838975603415, -34.597038822004635 ] }, "distance" : 897.468241576501 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf6ee0"), "productName" : "Product 25958", "shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.46085702181239, -34.604650388543696 ] }, "distance" : 898.034018738301 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa5ae"), "productName" : "Product 41592", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.45685638827176, -34.60474329356857 ] }, "distance" : 898.5558995684448 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7959"), "productName" : "Product 28824", "shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.459904158759194, -34.60482224504918 ] }, "distance" : 900.9869526928085 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa490"), "productName" : "Product 41318", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.451197770050264, -34.6021847696287 ] }, "distance" : 905.1898652130183 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf455a"), "productName" : "Product 13834", "shippingCost" : 300, "location" : { "type" : "Point", "coordinates" : [ -58.459163270621104, -34.58867985448605 ] }, "distance" : 905.3977867101664 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf1945"), "productName" : "Product 1520", "shippingCost" : 400, "location" : { "type" : "Point", "coordinates" : [ -58.44889797758938, -34.59520280317236 ] }, "distance" : 906.6492611904513 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf37a6"), "productName" : "Product 10190", "shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.44926849235346, -34.59951992865194 ] }, "distance" : 907.0947362454855 }

```

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{ "_id" : ObjectId("60b3e377f4beed6aedbf60e9"), "productName" : "Product 22096",
"shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.455209167470834,
-34.60446602429172 ] }, "distance" : 908.1744987822319 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2881"), "productName" : "Product 5936", "shippingCost"
: 400, "location" : { "type" : "Point", "coordinates" : [ -58.46490244669283, -34.5904688456904 ] },
"distance" : 911.1882977947624 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf4275"), "productName" : "Product 13074",
"shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.46848052363989,
-34.5957990757755 ] }, "distance" : 912.2287684018967 }
{ "_id" : ObjectId("60b3e381f4beed6aedbf6bfa"), "productName" : "Product 49168", "shippingCost"
: 1900, "location" : { "type" : "Point", "coordinates" : [ -58.4511582900352, -34.602322189817514 ]
}, "distance" : 918.0750904824341 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf24a6"), "productName" : "Product 4790", "shippingCost"
: 500, "location" : { "type" : "Point", "coordinates" : [ -58.46499068054477, -34.59040139347199 ] },
"distance" : 922.1222977609754 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3ca3"), "productName" : "Product 11531", "shippingCost"
: 1500, "location" : { "type" : "Point", "coordinates" : [ -58.46205950788231, -34.58901679129664 ]
}, "distance" : 922.5962860656838 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf13db"), "productName" : "Product 27", "shippingCost" :
1100, "location" : { "type" : "Point", "coordinates" : [ -58.45616983459274, -34.588746661306814 ]
}, "distance" : 923.7344183794871 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4572"), "productName" : "Product 13853",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.4533614221883,
-34.58964655503218 ] }, "distance" : 929.8202928216422 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf76d5"), "productName" : "Product 28141",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.458999318244636,
-34.588433975832785 ] }, "distance" : 932.0147873035662 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8299"), "productName" : "Product 31433",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.45329691386879,
-34.58964049735376 ] }, "distance" : 933.4616996278252 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf2213"), "productName" : "Product 4019", "shippingCost"
: 1400, "location" : { "type" : "Point", "coordinates" : [ -58.46872993755186, -34.595884815288414 ]
}, "distance" : 933.826894137699 }
{ "_id" : ObjectId("60b3e37bf4beed6aedbf8615"), "productName" : "Product 32518",
"shippingCost" : 1800, "location" : { "type" : "Point", "coordinates" : [ -58.45427493954675,
-34.589185011572866 ] }, "distance" : 935.7711535069908 }
{ "_id" : ObjectId("60b3e370f4beed6aedbf14a1"), "productName" : "Product 223", "shippingCost" :
1800, "location" : { "type" : "Point", "coordinates" : [ -58.455284832783846, -34.58883396489079 ]
}, "distance" : 937.3651061632761 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9a1a"), "productName" : "Product 38240",
"shippingCost" : 1300, "location" : { "type" : "Point", "coordinates" : [ -58.45589264398248,
-34.60496518311059 ] }, "distance" : 942.1838263846447 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbe7c"), "productName" : "Product 48830", "shippingCost"
: 1300, "location" : { "type" : "Point", "coordinates" : [ -58.450291213979284, -34.59176784757848 ]
}, "distance" : 945.2571244486749 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf20f5"), "productName" : "Product 3699", "shippingCost" :
1000, "location" : { "type" : "Point", "coordinates" : [ -58.45870911031097, -34.60530803724422 ] },
"distance" : 947.1576462984469 }

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{ "_id" : ObjectId("60b3e377f4beed6aedbf5bd7"), "productName" : "Product 20618",
"shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.458397559333356,
-34.60533684266618 ] }, "distance" : 950.4924863211686 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf5250"), "productName" : "Product 17784",
"shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.44822323241848,
-34.59678673473545 ] }, "distance" : 950.8671889976571 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf444f"), "productName" : "Product 13556", "shippingCost" :
600, "location" : { "type" : "Point", "coordinates" : [ -58.454692253121195, -34.58888451229085 ]
}, "distance" : 951.1301237566296 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4da1"), "productName" : "Product 16319",
"shippingCost" : 2000, "location" : { "type" : "Point", "coordinates" : [ -58.46653667675495,
-34.591271774569464 ] }, "distance" : 952.7167741318452 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6a5c"), "productName" : "Product 24698", "shippingCost" :
900, "location" : { "type" : "Point", "coordinates" : [ -58.4485550257443, -34.5990963225227 ] },
"distance" : 955.2859150182198 }
{ "_id" : ObjectId("60b3e37ef4beed6aedbfa655"), "productName" : "Product 41765",
"shippingCost" : 500, "location" : { "type" : "Point", "coordinates" : [ -58.45539253617914,
-34.60499731536577 ] }, "distance" : 958.6768295614036 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf45c2"), "productName" : "Product 13986", "shippingCost" :
800, "location" : { "type" : "Point", "coordinates" : [ -58.46661086560164, -34.59121601714857 ] },
"distance" : 961.9161382860602 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf5758"), "productName" : "Product 19242",
"shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.46044250201869,
-34.605323040030875 ] }, "distance" : 963.6786991534344 }
{ "_id" : ObjectId("60b3e378f4beed6aedbf6759"), "productName" : "Product 23855",
"shippingCost" : 1100, "location" : { "type" : "Point", "coordinates" : [ -58.45331063519302,
-34.58927876391751 ] }, "distance" : 967.4391609412999 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf306c"), "productName" : "Product 8141", "shippingCost" :
800, "location" : { "type" : "Point", "coordinates" : [ -58.46371012802527, -34.60441497346499 ] },
"distance" : 968.4150453944216 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf5147"), "productName" : "Product 17434",
"shippingCost" : 600, "location" : { "type" : "Point", "coordinates" : [ -58.46686782042684,
-34.60222064170472 ] }, "distance" : 968.5336226478698 }
{ "_id" : ObjectId("60b3e373f4beed6aedbf3750"), "productName" : "Product 10100",
"shippingCost" : 1000, "location" : { "type" : "Point", "coordinates" : [ -58.46750815027078,
-34.59205926755006 ] }, "distance" : 972.0443402593988 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf7067"), "productName" : "Product 26349",
"shippingCost" : 2200, "location" : { "type" : "Point", "coordinates" : [ -58.44924594772987,
-34.600986429269156 ] }, "distance" : 975.6291437936004 }
{ "_id" : ObjectId("60b3e381f4beed6aedbfbf5a"), "productName" : "Product 49097", "shippingCost" :
800, "location" : { "type" : "Point", "coordinates" : [ -58.45256816101873, -34.58955113546582 ] },
"distance" : 978.0966283689123 }
{ "_id" : ObjectId("60b3e371f4beed6aedbf21f6"), "productName" : "Product 3994", "shippingCost" :
1400, "location" : { "type" : "Point", "coordinates" : [ -58.468613344768066, -34.5937293348763 ] },
"distance" : 979.1821974254334 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf099"), "productName" : "Product 44829", "shippingCost" :
2000, "location" : { "type" : "Point", "coordinates" : [ -58.448178439408316, -34.59885715038758 ]
}, "distance" : 982.0320540303927 }

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{ "_id" : ObjectId("60b3e37bf4beed6aedbf863c"), "productName" : "Product 32559", "shippingCost" : 700, "location" : { "type" : "Point", "coordinates" : [ -58.46535541185607, -34.589933597723395 ] }, "distance" : 983.6011904399354 }
{ "_id" : ObjectId("60b3e37ff4beed6aedbf92"), "productName" : "Product 44545", "shippingCost" : 800, "location" : { "type" : "Point", "coordinates" : [ -58.463132506845014, -34.60483271586793 ] }, "distance" : 985.9334245373083 }
{ "_id" : ObjectId("60b3e374f4beed6aedbf3ac4"), "productName" : "Product 11041", "shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.45166227954942, -34.590026912979916 ] }, "distance" : 986.2363448105857 }
{ "_id" : ObjectId("60b3e375f4beed6aedbf4a44"), "productName" : "Product 15291", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.450869316736515, -34.60297106814123 ] }, "distance" : 986.7593801225296 }
{ "_id" : ObjectId("60b3e376f4beed6aedbf56e1"), "productName" : "Product 19107", "shippingCost" : 1600, "location" : { "type" : "Point", "coordinates" : [ -58.45237863159143, -34.604059955570825 ] }, "distance" : 988.9956039725315 }
{ "_id" : ObjectId("60b3e372f4beed6aedbf2cb3"), "productName" : "Product 7129", "shippingCost" : 1900, "location" : { "type" : "Point", "coordinates" : [ -58.46937708266781, -34.59773780456962 ] }, "distance" : 993.0455109536834 }
{ "_id" : ObjectId("60b3e379f4beed6aedbf7690"), "productName" : "Product 28053", "shippingCost" : 2100, "location" : { "type" : "Point", "coordinates" : [ -58.4620751192435, -34.588335869323046 ] }, "distance" : 994.5790022464209 }
{ "_id" : ObjectId("60b3e37af4beed6aedbf7f0f"), "productName" : "Product 30495", "shippingCost" : 900, "location" : { "type" : "Point", "coordinates" : [ -58.467917467334836, -34.592164619237664 ] }, "distance" : 997.6336839878672 }
{ "_id" : ObjectId("60b3e37df4beed6aedbf9b27"), "productName" : "Product 38579", "shippingCost" : 1500, "location" : { "type" : "Point", "coordinates" : [ -58.469284670605866, -34.59859819787454 ] }, "distance" : 999.3232762501414 }
```

16. Obtenga una colección de los productos que fueron enviados en las compras del punto anterior. Note que sólo es posible ligarlas por el nombre del producto.

```
db.col_resultado.aggregate([
  $lookup: {
    from: "products",
    localField: "productName",
    foreignField: "name",
    as: "productoEnviado"
  },
  $unwind: "$productoEnviado"
], {
  $project: {
    "productoEnviado": 1
  },
  $sort: {
    "productoEnviado.name": 1
  }
})
```

```

    }
  }, {
    $out: "productosEnviadosCentroBsAs"
  })).pretty();

```

► Si la consulta se empieza a tornar difícil de leer, se pueden ir guardando los agregadores en variables, que no son más que objetos en formato JSON.

**17. Usando la colección del punto anterior, obtenga una nueva en la que agrega a cada producto un atributo purchases que consista en un array con todas las compras de cada producto.**

```

db.productosEnviadosCentroBsAs.aggregate([
  $lookup: {
    from: "purchases",
    localField: "productoEnviado.name",
    foreignField: "productName",
    as: "purchases",
  }
], {
  $out: "productosCompradosCentroBsAs"
})).pretty()

```

**18. Obtenga el promedio de costo de envío pagado para cada producto del punto anterior**

```

db.productosCompradosCentroBsAs.aggregate([
  $unwind: "$purchases"
], {
  $group: {
    _id: "$productoEnviado.name",
    promCostoEnvio: {
      $avg: "$purchases.shippingCost"
    }
  }
}
))

```