```
>_MONGOSH
> use optical_store_nosql
    switched to db optical_store_nosql
> db.clients.find({})
< {
   _id: 'CL0001',
   name: 'Andrea Swift',
    birthday: '1989-03-15',
   phone: '071388612',
    address: 'Leshke-Tetovo-1036',
    sales_worker_id: 'SW0011'
  }
   _id: 'CL0002',
   name: 'Reanna Jenkin',
    birthday: '2001-11-22',
    phone: '072345986',
    address: 'Arbana-Tirana-1024',
    sales_worker_id: 'SW0012'
```

```
>_MONGOSH

> db.employees.find({})

< {
    _id: 'MG0026',
    name: 'Ruelle Johnson',
    contact: '072524425'

}

{
    _id: 'MG0027',
    name: 'Max Martin',
    contact: '074229925'

}

{
    _id: 'MG0028',
    name: 'Claire Perez',
    contact: '070666222'

}</pre>
```

```
>_MONGOSH

> db.salesworkers.find({})

< {
    _id: 'SW0011',
    shift: 'Afternoon shift'

}

{
    _id: 'SW0012',
    shift: 'Morning shift'

}

{
    _id: 'SW0013',
    shift: 'Night shift'
}</pre>
```

```
>_MONGOSH

> db.medicalworkers.find({})

< {
    _id: 'MW0021',
    office: 'A101',
    specialization: 'Optometrist'
}

{
    _id: 'MW0022',
    office: 'A102',
    specialization: 'Optician'
}</pre>
```

```
> db.managers.find({})

< {
    _id: 'MG0026'
    }
    {
    _id: 'MG0027'
    }
    {
    _id: 'MG0028'
}</pre>
```

```
>_MONGOSH

> db.products.find({})

< {
    _id: 'PR0051',
    name: 'Sunglasses',
    price: 125,
    type: 'Eyewear',
    available: true

}

{
    _id: 'PR0052',
    name: 'Polarized Sunglasses',
    price: 200,
    type: 'Eyewear',
    available: true
}</pre>
```

```
>_MONGOSH
> db.eye_examinations.find({})
{
   _id: 'EX0035',
    right_eye_prescription: 1.25,
    left_eye_prescription: 1.5,
    date: '2023-05-01',
    time: '09:00:00.0000000',
    type: 'Routine Check-up',
    client_id: 'CL0001',
    medical_worker_id: 'MW0021'
 }
    _id: 'EX0036',
    right_eye_prescription: -0.75,
    left_eye_prescription: -0.5,
    date: '2023-08-08',
    time: '10:30:15.0000000',
    type: 'Follow-up',
    client_id: 'CL0005',
    medical_worker_id: 'MW0022'
```

```
>_MONGOSH
> db.invoices.find({})
< {
   _id: 'IN0045',
   date: '2023-10-29',
   quantity: 10,
   total: 200,
   taxes: 5.75,
   client_id: 'CL0002',
   sales_worker_id: 'SW0012'
  }
  {
   _id: 'IN0046',
   date: '2024-02-17',
   quantity: 5,
   total: 250,
   taxes: 12.3,
   client_id: 'CL0005',
    sales_worker_id: 'SW0015'
```

```
>_MONGOSH
> db.suppliers.find({})
< {
   _id: 'SL0011',
    name: 'Dorothea',
    phone: '073455615',
    contract_start: '2023-01-01',
    contract_end: '2024-01-01',
   manager_id: 'MG0026'
 }
  {
   _id: 'SL0012',
    name: 'Joe',
    phone: '078351414',
    contract_start: '2021-03-15',
    contract_end: '2024-02-07',
    manager_id: 'MG0027'
```

```
>_MONGOSH

> db.purchases.find({})

< {
    _id: 100001,
    date: '2023-10-29',
    time: '14:00:00.00000000',
    invoice_id: 'IN0045',
    sales_worker_id: 'SW0015'

}

{
    _id: 100007,
    date: '2023-09-01',
    time: '09:00:00.0000000',
    invoice_id: 'IN0045',
    sales_worker_id: 'SW0011'
}</pre>
```

--Additional queries

Find all clients assigned to a specific salesworker (e.g., SW0012)

```
> db.clients.find({ sales_worker_id: "SW0012" })
< {
   _id: 'CL0002',
   name: 'Reanna Jenkin',
   birthday: '2001-11-22',
   phone: '072345986',
   address: 'Arbana-Tirana-1024',
   sales_worker_id: 'SW0012'
   _id: 'CL0006',
   name: 'Breanna Mainor',
   birthday: '2009-12-31',
   phone: '072712814',
   address: 'Lezhe-Tirane-2143',
   sales_worker_id: 'SW0012'
 }
   _id: 'CL0009',
   name: 'Reagan Clarkson',
   birthday: '1975-09-11',
   phone: '078872321',
   address: 'Cegran-Gostivar-1230',
   sales_worker_id: 'SW0012'
```

```
>_MONGOSH
> db.invoices.find({ total: { $gt: 250 } })
< {
   _id: 'IN0047',
   date: '2023-11-01',
   quantity: 8,
    total: 350,
    taxes: 8.99,
    client_id: 'CL0009',
    sales_worker_id: 'SW0019'
  }
  {
   _id: 'IN0049',
   date: '2024-02-17',
    quantity: 4,
    total: 300,
    taxes: 11.45,
    client_id: 'CL0003',
    sales_worker_id: 'SW0013'
  }
  {
   _id: 'IN0052',
   date: '2024-03-15',
    quantity: 7,
    total: 275,
    taxes: 7.25,
   client_id: 'CL0004',
   sales_worker_id: 'SW0014'
```

```
>_MONGOSH
> db.products.find({ available: true, price: { $lt: 150 }, type: "Eyewear" })
   _id: 'PR0051',
   name: 'Sunglasses',
   price: 125,
   type: 'Eyewear',
  }
  {
   _id: 'PR0053',
   name: 'Contact Lenses',
   price: 30,
   type: 'Eyewear',
    available: true
  }
  {
   _id: 'PR0055',
   name: 'Photochromic Lenses',
   price: 50,
    type: 'Eyewear',
```

```
>_MONGOSH
> db.purchases.aggregate([
    {
      $lookup: {
       from: "invoices",
        localField: "invoice_id",
        foreignField: "_id",
        as: "invoice_info"
     }
    },
    { $unwind: "$invoice_info" },
    {
      $project: {
       _id: 0,
        purchase_number: "$_id",
        client_id: "$invoice_info.client_id",
       total: "$invoice_info.total"
     }
    }
 1)
< {
    purchase_number: 100001,
    client_id: 'CL0002',
    total: 200
  }
    purchase_number: 100007,
    client_id: 'CL0002',
    total: 200
```

```
>_MONGOSH
> db.eye_examinations.find({ medical_worker_id: "MW0021" })
< {
   _id: 'EX0035',
   right_eye_prescription: 1.25,
    left_eye_prescription: 1.5,
    date: '2023-05-01',
    time: '09:00:00.0000000',
    type: 'Routine Check-up',
   client_id: 'CL0001',
   medical_worker_id: 'MW0021'
  }
  {
    _id: 'EX0040',
   right_eye_prescription: 2.25,
   left_eye_prescription: 2.5,
    date: '2023-05-09',
    time: '12:45:00.0000000',
    type: 'Initial Consultation',
    client_id: 'CL0002',
    medical_worker_id: 'MW0021'
```

```
>_MONGOSH
> db.supplies.aggregate([
    {
      $lookup: {
        from: "products",
        localField: "product_id",
        foreignField: "_id",
        as: "product_info"
     }
    },
    { $unwind: "$product_info" },
      $project: {
       _id: 0,
        supplier_id: 1,
        product_name: "$product_info.name"
    }
 1)
< {
    supplier_id: 'SL0011',
    product_name: 'Sunglasses'
  }
  {
    supplier_id: 'SL0012',
    product_name: 'Polarized Sunglasses'
  }
    supplier_id: 'SL0012',
    product_name: 'Prescription Glasses'
```

```
> db.suppliers.find({ contract_end: { $lt: "2024-01-01" } })
< {
   _id: 'SL0015',
   name: 'Demi',
   phone: '075219888',
   contract_start: '2019-06-22',
   contract_end: '2023-12-12',
   manager_id: 'MG0028'
 }
 {
   _id: 'SL0016',
   name: 'Dylan',
   phone: '070212419',
   contract_start: '2020-10-15',
   contract_end: '2021-10-27',
   manager_id: 'MG0027'
 }
```

Get all purchases made by a client (via makes) with client_id = "CL0002"

```
> db.makes.find({ client_id: "CL0002" })

< {
    _id: ObjectId('6836f066694bf0feed914d31'),
    client_id: 'CL0002',
    invoice_id: 'IN0045',
    purchase_number: 100001
}</pre>
```