

Evidencias (fotos)

POSTGRES

The screenshot shows the pgAdmin 4 interface. In the top navigation bar, the connection is set to "clinicaSQL/postgres@PostgreSQL 15". The main area has two tabs: "Query" and "Query History", with "Query" selected. Below the tabs is a SQL editor containing the following code:

```
1 SELECT p.nombre AS paciente, d.nombre AS doctor
2 FROM citas c
3 INNER JOIN pacientes p ON c.paciente_id = p.id
4 INNER JOIN doctores d ON c.dotor_id = d.id;
5
```

Below the editor is the "Data Output" tab, which displays the results of the query:

| | paciente character varying (150) | doctor character varying (150) |
|---|-------------------------------------|-----------------------------------|
| 1 | Carlos Ruiz | Dr. Juan Pérez |
| 2 | Carlos Ruiz | Dr. Andrés Molina |
| 3 | Maria López | Dra. Lucía Torres |

The screenshot shows the pgAdmin 4 interface. The connection is still "clinicaSQL/postgres@PostgreSQL 15". The "Query" tab is selected, displaying the following query:

```
1 SELECT *
2 FROM citas
3 WHERE doctor_id = (
4     SELECT doctor_id
5     FROM citas
6     GROUP BY doctor_id
7     ORDER BY COUNT(*) DESC
8     LIMIT 1
9 );
10
```

The "Data Output" tab shows the results of this query:

| | id [PK] integer | paciente_id integer | doctor_id integer | fecha timestamp without time zone | motivo character varying (200) |
|---|--------------------|------------------------|----------------------|--------------------------------------|-----------------------------------|
| 1 | 2 | 1 | 3 | 2025-02-11 14:00:00 | Erupción en la piel |

The screenshot shows the pgAdmin 4 interface. The "Data Output" tab is active, displaying the structure of a table:

| | id [PK] integer | paciente_id integer | doctor_id integer | fecha timestamp without time zone | motivo character varying (200) |
|---|--------------------|------------------------|----------------------|--------------------------------------|-----------------------------------|
| 1 | 2 | 1 | 3 | 2025-02-11 14:00:00 | Erupción en la piel |

clinicaSQL/postgres@PostgreSQL 15

No limit

Query History

```
1 SELECT e.nombre, d.id
2 FROM doctores d
3 RIGHT JOIN especialidades e ON d.especialidad_id = e.id
4 WHERE d.id IS NULL;
```

Data Output Messages Notifications

SQL

| nombre | id |
|-------------------------|---------|
| character varying (100) | integer |

Query History

```
1 WITH citas_por_paciente AS (
2     SELECT paciente_id, COUNT(*) AS total
3     FROM citas
4     GROUP BY paciente_id
5 )
6 SELECT p.nombre, c.total
7 FROM citas_por_paciente c
8 JOIN pacientes p ON p.id = c.paciente_id;
9
```

Data Output Messages Notifications

Showing rows: 1 to 2

SQL

| | nombre | total |
|---|-------------|-------|
| 1 | Carlos Ruiz | 2 |
| 2 | Maria Lopez | 1 |

Query Query History

```
1 SELECT d.nombre, COUNT(c.id) AS total
2 FROM doctores d
3 JOIN citas c ON d.id = c.doctor_id
4 GROUP BY d.nombre
5 HAVING COUNT(c.id) > 1;
6
```

Data Output Messages Notifications

SQL

| nombre | total |
|-------------------------|--------|
| character varying (150) | bigint |

Dashboard Properties SQL Statistics Dependencies Dependents Processes clinicaSQL/postgres@PostgreSQL 15*

clinicaSQL/postgres@PostgreSQL 15

No limit

Query Query History Scratch Pad

```
1 SELECT d.nombre, c.id AS cita
2 FROM doctores d
3 LEFT JOIN citas c ON d.id = c.doctor_id
4 WHERE c.id IS NULL;
5
```

Data Output Messages Notifications

SQL

| nombre | cita |
|-------------------------|---------|
| character varying (150) | integer |

Query Query History 

```
1  SELECT p.nombre, c.fecha
2  FROM pacientes p
3  FULL JOIN citas c ON p.id = c.paciente_id;
4
```

Data Output Messages Notifications

 Showing rows: 1 to 3  

| | nombre character varying (150)  | fecha timestamp without time zone  |
|---|---|--|
| 1 | Carlos Ruiz | 2025-02-10 10:00:00 |
| 2 | Carlos Ruiz | 2025-02-11 14:00:00 |
| 3 | Maria López | 2025-02-12 09:00:00 |

MONGO

MongoDB Compass - localhost:27017/clinicaMongo.pacientes

Connections Edit View Collection Help

Compass

My Queries Data Modeling

CONNECTIONS (1)

localhost:27017 admin clinicaMongo config local startup_log

localhost:27017 > clinicaMongo > pacientes

Documents 1 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA EXPORT DATA UPDATE DELETE Explain Reset Find Options

25 1-1 of 1

```
_id: ObjectId('693a0eb3f7d77a0e6ede72d4')
nombre : "Ana"
apellido : "Gómez"
cedula : "1032456789"
fechaNacimiento : 1998-05-12T00:00:00.000+00:00
contacto : Object
alergias : Array (1)
antecedentes : Array (1)
```

MongoDB Compass - localhost:27017/clinicaMongo.historias_clinicas

Connections Edit View Collection Help

Compass

My Queries Data Modeling

CONNECTIONS (1)

localhost:27017 admin clinicaMongo config local startup_log

localhost:27017 > clinicaMongo > historias_clinicas

Documents 1 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA EXPORT DATA UPDATE DELETE

25

```
_id: ObjectId('693a0ec3f7d77a0e6ede72d5')
pacienteId : ObjectId('65ae4c3454a92f3e6dd29c8b')
fecha : 2025-12-11T00:22:27.299+00:00
motivo : "Dolor abdominal"
diagnostico : "Gastritis"
tratamiento : "Dieta blanda"
medicamentos : Array (1)
```

MongoDB Compass - localhost:27017/clinicaMongo.citas

Connections Edit View Collection Help

Compass

My Queries Data Modeling

CONNECTIONS ()

localhost:27017

- admin
- clinicaMongo
 - citas
 - historias_clinicas
 - pacientes
- config
- local
 - startup_log

localhost:27017 > clinicaMongo > citas

Documents 1 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

ADD DATA EXPORT DATA UPDATE DELETE

25 1-1 of 1

`_id: ObjectId('693a0ee5f7d77a0e6ede72d6')
pacienteId: ObjectId('65ae4c3454a92f3e6dd29c8b')
fecha: 2025-02-15T14:30:00.000+00:00
tipo: "Consulta general"
estado: "pendiente"`

Open MongoDB shell

```
motivo: 'Erupción en la piel',
tratamientos: [
    'Alergias - Crema tópica'
]
}
]
{
    _id: ObjectId('693a0ad61da75f5dcc28eaff'),
    nombre: 'María López',
    fecha_nacimiento: '2002-09-22',
    citas: [
        {
            _id: ObjectId('693a0aff1da75f5dcc28eb08'),
            paciente_nombre: 'María López',
            doctor_nombre: 'Dra. Lucía Torres',
            fecha: 2025-02-12T09:00:00.000Z,
            motivo: 'Control rutinario',
            tratamientos: [
                'Antibióticos'
            ]
        }
    ]
}
```

Compass

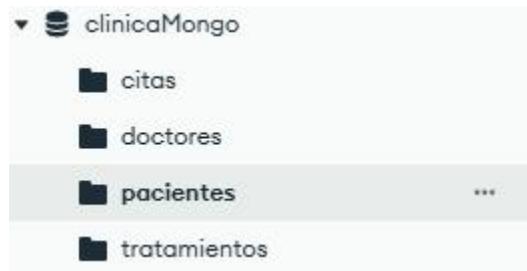
My Queries Data Modeling

CONNECTIONS (1) X + ...

Search connections

localhost27017 admin clinicaMongo citas doctores pacientes tratamientos config local startup_log

```
> use clinicaMongo
< switched to db clinicaMongo
> db.pacientes.insertMany([
  {
    nombre: "Carlos Ruiz",
    fecha_nacimiento: "1989-05-13"
  },
  {
    nombre: "María López",
    fecha_nacimiento: "2002-09-22"
  }
])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('693a0ad61da75f5dcc28eafe'),
    '1': ObjectId('693a0ad61da75f5dcc28eaff')
  }
}
> db.doctores.insertMany([
  {
    nombre: "Dr. Juan Pérez",
    especialidad: "Cardiología"
  },
  {
    nombre: "Mtra. Ana Gómez",
    especialidad: "Psicología"
  }
])
```



REDIS

```
> HSET doctor:102 nombre "Juan Pérez" especialidad "Cardiología" disponible "true"
3
> HGETALL doctor:102
nombre
Juan Pérez
especialidad
Cardiología
disponible
true
> HSET doctor:102 disponible "false"
0
> SADD pacientes_unicos "Ana" "Carlos" "Luis"
3
> SMEMBERS pacientes_unicos
Luis
Ana
Carlos
> SADD pacientes_unicos "Ana" # No lo duplica
4
> SET codigo_verificacion "839201" EX 120
OK
> TTL codigo_verificacion
113
```

```
> connecting.....
> sample-redis connected!
> SET pacientes_atendidos_hoy 0 INCR pacientes_atendidos_hoy INCR pacientes_atendidos_hoy GET pacientes_atendidos_hoy
ERR syntax error
> SET pacientes_atendidos_hoy 0
OK
> INCR pacientes_atendidos_hoy
1
> INCR pacientes_atendidos_hoy
2
> GET pacientes_atendidos_hoy
2
> LPUSH sala_espera "Ana Gómez"
1
> LPUSH sala_espera "Carlos Ruiz"
2
> LPUSH sala_espera "Laura Ortega"
3
> LRANGE sala_espera 0 -1
Laura Ortega
Carlos Ruiz
Ana Gómez
> RPOP sala_espera
Ana Gómez
```

Press Enter To Exec Commands, Up and Down To Switch History