



```

C:\Users\crust>docker exec -it redis-final redis-cli
127.0.0.1:6379> INCR visitas
(integer) 1
127.0.0.1:6379> INCR visitas
(integer) 2
127.0.0.1:6379> GET visitas
"2"
127.0.0.1:6379> LPUSH cola_espera "cliente1"
(integer) 1
127.0.0.1:6379> LPUSH cola_espera "cliente2"
(integer) 2
127.0.0.1:6379> LRANGE cola_espera 0 -1
1) "cliente2"
2) "cliente1"
127.0.0.1:6379> HSET sesion:123 usuario "sebas" rol "admin" estado "activo"
(integer) 3
127.0.0.1:6379> HGETALL sesion:123
1) "usuario"
2) "sebas"
3) "rol"
4) "admin"
5) "estado"
6) "activo"
127.0.0.1:6379> SADD conectados user1
(integer) 1
127.0.0.1:6379> SADD conectados user2
(integer) 1
127.0.0.1:6379> SADD conectados user1
(integer) 0

```

```

127.0.0.1:6379> INCR visitas
(integer) 2
127.0.0.1:6379> GET visitas
"2"
127.0.0.1:6379> LPUSH cola_espera "cliente1"
(integer) 1
127.0.0.1:6379> LPUSH cola_espera "cliente2"
(integer) 2
127.0.0.1:6379> LRANGE cola_espera 0 -1
1) "cliente2"
2) "cliente1"
127.0.0.1:6379> HSET sesion:123 usuario "sebas" rol "admin" estado "activo"
(integer) 3
127.0.0.1:6379> HGETALL sesion:123
1) "usuario"
2) "sebas"
3) "rol"
4) "admin"
5) "estado"
6) "activo"
127.0.0.1:6379> SADD conectados user1
(integer) 1
127.0.0.1:6379> SADD conectados user2
(integer) 1
127.0.0.1:6379> SADD conectados user1
(integer) 0
127.0.0.1:6379> SMEMBERS conectados
1) "user1"
2) "user2"
127.0.0.1:6379> |

```

The screenshot shows the MongoDB Compass application interface. On the left, there's a sidebar titled 'Connections' with a list of connections: 'localhost:27017' (selected), 'admin', 'config', 'local', 'proyecto_final', and 'productos'. The main area displays the 'productos' collection under the 'proyecto_final' database. It shows three documents:

- Document 1:** _id: ObjectId('693a0eac6a3523779ad30bd8'), collection: "notas_medicinas", documents: Array (1)
- Document 2:** _id: ObjectId('693a0eac6a3523779ad30bd9'), collection: "inventario_medicamentos", documents: Array (2)
- Document 3:** _id: ObjectId('693a0eac6a3523779ad30bd1'), collection: "pacientes_perfil", documents: Array (2)

At the bottom of the main area, there are buttons for 'ADD DATA', 'EXPORT DATA', 'UPDATE', and 'DELETE'. A toolbar at the top right includes 'Open MongoDB shell', 'Find', 'Options', and navigation controls.

```

1   [
2     {
3       "_id": "693a0eac6a3823779ed380bd",
4       "collection": "notas_medicas",
5       "documents": [
6         {
7           "id_cita_solo": 1,
8           "notas": "Paciente estable, sin signos de alarma.",
9           "tipo": "consulta",
10          "fecha": "2025-01-10"
11        }
12      ],
13    },
14    {
15      "_id": "693a0eac6a3823779ed380bd9",
16      "collection": "inventario_medicamentos",
17      "documents": [
18        {
19          "nombre": "Ibuprofeno",
20          "categoria": "Analgesico",
21          "cantidad": 150,
22          "proveedores": [
23            {
24              "nombre": "Farmacia1",
25              "telefono": "3211111222"
26            }
27          ],
28        },
29        {
30          "nombre": "Suero fisiológico",
31          "categoria": "Hidratacion",
32          "cantidad": 50,
33          "proveedores": [
34            {
35              "nombre": "Clinibax",
36              "telefono": "3284444555"
37            }
38          ],
39        }
40      ],
41    }
42  ],
43  {
44    "_id": "693a0eac6a3823779ed380bd",
45    "collection": "pacientes_perfil",
46    "documents": [
47      {
48        "id_paciente_solo": 1,
49        "direccion": "Cra 10 # 20-65",
50        "alergias": [
51          "Penicilina"
52        ],
53        "historiales": [
54          {
55            "fecha": "2025-01-10",
56            "descripcion": "Consulta por dolor torácico"
57          }
58        ],
59        "id_paciente_solo": 2,
60        "direccion": "Calle 8 # 38-22",
61        "alergias": [],
62        "historiales": []
63      }
64    ],
65    {
66      "_id": "693a0eac6a3823779ed380bd9",
67      "createdAt": "2025-12-17T00:59:28.999Z"
68    }
69  ]

```

```

1   [
2     {
3       "_id": "693a0eac6a3823779ed380bd",
4       "collection": "notas_medicas",
5       "documents": [
6         {
7           "id_cita_solo": 1,
8           "notas": "Paciente estable, sin signos de alarma.",
9           "tipo": "consulta",
10          "fecha": "2025-01-10"
11        }
12      ],
13    },
14    {
15      "_id": "693a0eac6a3823779ed380bd9",
16      "collection": "inventario_medicamentos",
17      "documents": [
18        {
19          "nombre": "Ibuprofeno",
20          "categoria": "Analgesico",
21          "cantidad": 150,
22          "proveedores": [
23            {
24              "nombre": "Farmacia1",
25              "telefono": "3211111222"
26            }
27          ],
28        },
29        {
30          "nombre": "Suero fisiológico",
31          "categoria": "Hidratacion",
32          "cantidad": 50,
33          "proveedores": [
34            {
35              "nombre": "Clinibax",
36              "telefono": "3284444555"
37            }
38          ],
39        }
40      ],
41    }
42  ],
43  {
44    "_id": "693a0eac6a3823779ed380bd",
45    "collection": "pacientes_perfil",
46    "documents": [
47      {
48        "id_paciente_solo": 1,
49        "direccion": "Cra 10 # 20-65",
50        "alergias": [
51          "Penicilina"
52        ],
53        "historiales": [
54          {
55            "fecha": "2025-01-10",
56            "descripcion": "Consulta por dolor torácico"
57          }
58        ],
59        "id_paciente_solo": 2,
60        "direccion": "Calle 8 # 38-22",
61        "alergias": [],
62        "historiales": []
63      }
64    ],
65    {
66      "_id": "693a0eac6a3823779ed380bd9",
67      "createdAt": "2025-12-17T00:59:28.999Z"
68    }
69  ]

```

<input type="checkbox"/>	●	mongodb	d9fd4beec1af	mongo:6	27018:27017 ⚡	0.33% 4 hours	<input type="button" value=""/>	<input type="button" value=""/>	<input type="button" value=""/>
<input type="checkbox"/>	●	redis-final	061fa104a00a	redis	6379:6379 ⚡	0.1% 3 hours	<input type="button" value=""/>	<input type="button" value=""/>	<input type="button" value=""/>

```

PS C:\Users\crist\OneDrive\Escritorio\Bases> cd .\apiMongo\
PS C:\Users\crist\OneDrive\Escritorio\Bases\apiMongo> node server
Servidor en puerto 5000
MongoDB conectado

```

```
localhost:5000/api/productos/693a0eac6a3523779ad30bd8
[{"id": "693a0eac6a3523779ad30bd8", "collection": "notas_medicas", "notas": [{"id": "693a0eac6a3523779ad30bd8", "paciente": "Paciente estable, sin signos de alarma.", "fecha": "2025-01-18"}]}
```