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PS C:\Users\crist\OneDrive\Escritorio\ProyectoRedis> docker exec -it redis redis-cli
127.0.0.1:6379> HSET pet:1:state hunger 50 energy 80 happiness 60
(integer) 3
127.0.0.1:6379> HGETALL pet:1:state
1) "hunger"
2) "50"
3) "energy"
4) "80"
5) "happiness"
6) "60"
127.0.0.1:6379> HINCRBY pet:1:state hunger 15
(integer) 65
127.0.0.1:6379> HINCRBY pet:1:state energy -5
(integer) 75
127.0.0.1:6379> HINCRBY pet:1:state happiness 5
(integer) 65
127.0.0.1:6379> HGETALL pet:1:state
1) "hunger"
2) "65"
3) "energy"
4) "75"
5) "happiness"
6) "65"
127.0.0.1:6379> HINCRBY pet:1:state hunger -10
(integer) 55
127.0.0.1:6379> HINCRBY pet:1:state energy -20
(integer) 55
127.0.0.1:6379> HINCRBY pet:1:state happiness 20
(integer) 85
127.0.0.1:6379> HGETALL pet:1:state
1) "hunger"
2) "55"
3) "energy"
4) "55"
5) "happiness"
6) "85"
127.0.0.1:6379> HINCRBY pet:1:state hunger -5
(integer) 50
127.0.0.1:6379> HINCRBY pet:1:state energy 25
(integer) 80
127.0.0.1:6379> HINCRBY pet:1:state happiness 5
(integer) 90
127.0.0.1:6379> HGETALL pet:1:state
1) "hunger"
2) "50"
3) "energy"
4) "80"
5) "happiness"
```

```
127.0.0.1:6379> INCR pet:1:interactions
(integer) 1
127.0.0.1:6379> GET pet:1:interactions
"1"
127.0.0.1:6379> SETEX pet:1:buff 120 "super-happy"
OK
127.0.0.1:6379> GET pet:1:buff
"super-happy"
127.0.0.1:6379> TTL pet:1:buff
(integer) 120
127.0.0.1:6379> SETEX pet:1:buff:food 60 "full-belly"
OK
127.0.0.1:6379> SETEX pet:1:buff:play 30 "excited"
OK
127.0.0.1:6379>
127.0.0.1:6379> HSET pet:2:state hunger 40 energy 90 happiness 70
(integer) 3
127.0.0.1:6379> HINCRBY pet:2:state hunger 10
(integer) 50
127.0.0.1:6379> HINCRBY pet:2:state energy -5
(integer) 85
127.0.0.1:6379> HINCRBY pet:2:state happiness 5
(integer) 75
127.0.0.1:6379> INCR pet:2:interactions
(integer) 1
127.0.0.1:6379> GET pet:2:interactions
"1"
127.0.0.1:6379> DEL pet:1:state
(integer) 1
127.0.0.1:6379> DEL pet:1:interactions
(integer) 1
127.0.0.1:6379> DEL pet:1:buff
(integer) 1
127.0.0.1:6379> DEL pet:1:buff:food
(integer) 1
127.0.0.1:6379> DEL pet:1:buff:play
(integer) 1
127.0.0.1:6379> DEL pet:2:state
(integer) 1
127.0.0.1:6379> DEL pet:2:interactions
(integer) 1
127.0.0.1:6379>
127.0.0.1:6379> HSET pet:3:state hunger 50 energy 50 happiness 50
(integer) 3
127.0.0.1:6379> HINCRBY pet:3:state hunger 15 # fend
(error) ERR wrong number of arguments for 'hincrby' command
127.0.0.1:6379> HINCRBY pet:3:state energy -5
(integer) 45
127.0.0.1:6379> HINCRBY pet:3:state happiness 5
(integer) 55
127.0.0.1:6379>
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127.0.0.1:6379> HINCRBY pet:3:state energy -5
(integer) 45
127.0.0.1:6379> HINCRBY pet:3:state happiness 5
(integer) 55
127.0.0.1:6379>
127.0.0.1:6379> HINCRBY pet:3:state hunger -10 # play
(error) ERR wrong number of arguments for 'hincrby' command
127.0.0.1:6379> HINCRBY pet:3:state energy -20
(integer) 25
127.0.0.1:6379> HINCRBY pet:3:state happiness 20
(integer) 75
127.0.0.1:6379>
127.0.0.1:6379> HINCRBY pet:3:state hunger -10 # play
(error) ERR wrong number of arguments for 'hincrby' command
127.0.0.1:6379> HINCRBY pet:3:state energy 25
(integer) 5
127.0.0.1:6379> HINCRBY pet:3:state happiness 20
(integer) 95
127.0.0.1:6379>
127.0.0.1:6379> HINCRBY pet:3:state hunger -5 # sleep
(error) ERR wrong number of arguments for 'hincrby' command
127.0.0.1:6379> HINCRBY pet:3:state energy 25
(integer) 30
127.0.0.1:6379> HINCRBY pet:3:state happiness 5
(integer) 100
127.0.0.1:6379>
127.0.0.1:6379> INCR pet:3:interactions
(integer) 1
127.0.0.1:6379> INCR pet:3:interactions
(integer) 2
127.0.0.1:6379> INCR pet:3:interactions
(integer) 3
127.0.0.1:6379> INCR pet:3:interactions
(integer) 4
127.0.0.1:6379>
127.0.0.1:6379> HGETALL pet:3:state
1) "hunger"
2) "50"
3) "energy"
4) "30"
5) "happiness"
6) "100"
127.0.0.1:6379> GET pet:3:interactions
"4"
127.0.0.1:6379> SETEX pet:1:buff:training 45 "active"
OK
127.0.0.1:6379> GET pet:1:buff:training
"active"
127.0.0.1:6379>
127.0.0.1:6379> RPUSH queue:2025-12-01 "turn-001"
(integer) 1
127.0.0.1:6379> RPUSH queue:2025-12-01 "turn-002"
(integer) 2
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(integer) 1
127.0.0.1:6379> RPUSH queue:2025-12-01 "turn-002"
(integer) 2
127.0.0.1:6379> RPUSH queue:2025-12-01 "turn-003"
(integer) 3
127.0.0.1:6379> RPUSH queue:2025-12-01 "turn-004"
(integer) 4
127.0.0.1:6379> LRANGE queue:2025-12-01 0 -1
1) "turn-001"
2) "turn-002"
3) "turn-003"
4) "turn-004"
127.0.0.1:6379> LPOP queue:2025-12-01
"turn-001"
127.0.0.1:6379> LPOP queue:2025-12-01
"turn-002"
127.0.0.1:6379> LRANGE queue:2025-12-01 0 -1
1) "turn-003"
2) "turn-004"
127.0.0.1:6379>
127.0.0.1:6379> SETEX reservation:turn-005 60 "user-123"
OK
127.0.0.1:6379> GET reservation:turn-005
"user-123"
127.0.0.1:6379> TTL reservation:turn-005
(integer) 60
127.0.0.1:6379>
127.0.0.1:6379> SET reservation:turn-006 "user-456" EX 90
OK
127.0.0.1:6379> INCR appointments:served:2025-12-01
(integer) 1
127.0.0.1:6379> INCR appointments:served:2025-12-01
(integer) 2
127.0.0.1:6379> INCR appointments:served:2025-12-01
(integer) 3
127.0.0.1:6379> GET appointments:served:2025-12-01
"3"
127.0.0.1:6379>
127.0.0.1:6379> INCR appointments:served:haircut:2025-12-01
(integer) 1
127.0.0.1:6379> INCR appointments:served:haircut:2025-12-01
(integer) 2
127.0.0.1:6379> INCR appointments:served:shave:2025-12-01
(integer) 1
127.0.0.1:6379>
127.0.0.1:6379> GET appointments:served:haircut:2025-12-01
"2"
127.0.0.1:6379> GET appointments:served:shave:2025-12-01
"1"
127.0.0.1:6379> HSET current:turn id "turn-010" user "user-123" service "haircut" status "in_progress"
(integer) 4
127.0.0.1:6379> HGETALL current:turn
1) "id"
2) "turn-010"
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4) "user-123"
5) "service"
6) "haircut"
7) "status"
8) "completed"
127.0.0.1:6379> KEYS queue:*
1) "queue:2025-12-01"
127.0.0.1:6379> KEYS reservation:*
1) "reservation:turn-006"
2) "reservation:turn-005"
127.0.0.1:6379> KEYS appointments:served:*
1) "appointments:served:2025-12-01"
2) "appointments:served:haircut:2025-12-01"
3) "appointments:served:shave:2025-12-01"
127.0.0.1:6379> KEYS current:*
1) "current:turn"
127.0.0.1:6379> DEL queue:2025-12-01
(integer) 1
127.0.0.1:6379> DEL appointments:served:2025-12-01
(integer) 1
127.0.0.1:6379> DEL appointments:served:haircut:2025-12-01
(integer) 1
127.0.0.1:6379> DEL appointments:served:shave:2025-12-01
(integer) 1
127.0.0.1:6379> DEL current:turn
(integer) 1
127.0.0.1:6379> # Crear cola con 5 turnos
(error) ERR unknown command '#', with args beginning with: 'Crear' 'cola' 'con' '5' 'turnos'
127.0.0.1:6379> RPUSH queue:2025-12-02 "turn-101"
(integer) 1
127.0.0.1:6379> RPUSH queue:2025-12-02 "turn-102"
(integer) 2
127.0.0.1:6379> RPUSH queue:2025-12-02 "turn-103"
(integer) 3
127.0.0.1:6379> RPUSH queue:2025-12-02 "turn-104"
(integer) 4
127.0.0.1:6379> RPUSH queue:2025-12-02 "turn-105"
(integer) 5
127.0.0.1:6379>
127.0.0.1:6379> # Atender 3 turnos
(error) ERR unknown command '#', with args beginning with: 'Atender' '3' 'turnos'
127.0.0.1:6379> LPOP queue:2025-12-02
"turn-101"
127.0.0.1:6379> INCR appointments:served:2025-12-02
(integer) 1
127.0.0.1:6379> LPOP queue:2025-12-02
"turn-102"
127.0.0.1:6379> INCR appointments:served:2025-12-02
(integer) 2
127.0.0.1:6379> LPOP queue:2025-12-02
"turn-103"
127.0.0.1:6379> INCR appointments:served:2025-12-02
(integer) 3
127.0.0.1:6379>
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127.0.0.1:6379> # Consultar total atendido
(error) ERR unknown command '#', with args beginning with: 'Consultar' 'total' 'atendido'
127.0.0.1:6379> GET appointments:served:2025-12-02
"3"
127.0.0.1:6379> SETEX reservation:turn-A 30 "user-A"
OK
127.0.0.1:6379> SETEX reservation:turn-B 60 "user-B"
OK
127.0.0.1:6379> SETEX reservation:turn-C 120 "user-C"
OK
127.0.0.1:6379>
127.0.0.1:6379> # Consultar TTL
(error) ERR unknown command '#', with args beginning with: 'Consultar' 'TTL'
127.0.0.1:6379> TTL reservation:turn-A
(integer) 30
127.0.0.1:6379> TTL reservation:turn-B
(integer) 60
127.0.0.1:6379> TTL reservation:turn-C
(integer) 120
127.0.0.1:6379> HSET current:turn appointment_id "<_id_de_MongoDB>"
(integer) 1
127.0.0.1:6379> HGETALL current:turn
1) "appointment_id"
2) "<_id_de_MongoDB>"
127.0.0.1:6379> HSET current:turn appointment_id "<_id_de_MongoDB>"
(integer) 0
127.0.0.1:6379> HGETALL current:turn
1) "appointment_id"
2) "<_id_de_MongoDB>"
127.0.0.1:6379> # 5 atenciones corte de cabello
(error) ERR unknown command '#', with args beginning with: '5' 'atenciones' 'corte' 'de' 'cabello'
127.0.0.1:6379> INCR appointments:served:service:haircut:2025-12-02
(integer) 1
127.0.0.1:6379> INCR appointments:served:service:haircut:2025-12-02
(integer) 2
127.0.0.1:6379> INCR appointments:served:service:haircut:2025-12-02
(integer) 3
127.0.0.1:6379> INCR appointments:served:service:haircut:2025-12-02
(integer) 4
127.0.0.1:6379> INCR appointments:served:service:haircut:2025-12-02
(integer) 5
127.0.0.1:6379>
127.0.0.1:6379> # 3 atenciones afeitado
(error) ERR unknown command '#', with args beginning with: '3' 'atenciones' 'afeitado'
127.0.0.1:6379> INCR appointments:served:service:shave:2025-12-02
(integer) 1
127.0.0.1:6379> INCR appointments:served:service:shave:2025-12-02
(integer) 2
127.0.0.1:6379> INCR appointments:served:service:shave:2025-12-02
(integer) 3
127.0.0.1:6379>
127.0.0.1:6379> # Consultar resultados
(error) ERR unknown command '#', with args beginning with: 'Consultar' 'resultados'
127.0.0.1:6379> GET appointments:served:service:haircut:2025-12-02
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pet_logs							
	_id ObjectId	pet_id ObjectId	action String	created_at Date	delta Object	comment String	
1	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"Feed"	2025-12-04T03:09:11.317+...	{ } 3 fields	"Gave Pivel some fish"	✎ 🔍 🗑
2	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"play"	2025-12-04T03:09:11.320+...	{ } 3 fields	"Played with a laser poi...	✎ 🔍 🗑
3	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"sleep"	2025-12-04T03:09:11.321+...	{ } 3 fields	"Long nap in the cave"	✎ 🔍 🗑
4	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"Feed"	2025-12-04T03:09:11.322+...	{ } 3 fields	"Dry food"	✎ 🔍 🗑
5	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"sleep"	2025-12-04T03:09:11.322+...	{ } 3 fields	"Short nap"	✎ 🔍 🗑
6	ObjectId('6930f657eab648...')	ObjectId('6930f657eab648...')	"play"	2025-12-04T03:09:11.322+...	{ } 3 fields	"Flying practice"	✎ 🔍 🗑

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pets							
	_id ObjectId	name String	owner_id ObjectId	species String	created_at Date	base_stats Object	active Boolean
1	ObjectId('6930f657eab648...')	"Pivel"	ObjectId('6930f657eab648...')	"cat"	2025-12-04T03:09:11.306+...	{ } 3 fields	true
2	ObjectId('6930f657eab648...')	"Luna"	ObjectId('6930f657eab648...')	"dragon"	2025-12-04T03:09:11.306+...	{ } 3 fields	true

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users					
	_id ObjectId	full_name String	email String	created_at Date	
1	ObjectId('6930f657eab648...')	"Laura Torres"	"laura.torres@example.co...	2025-12-04T03:09:11.295+...	✎ 🔍 🗑
2	ObjectId('6930f657eab648...')	"Miguel Rojas"	"miguel.rojas@example.co...	2025-12-04T03:09:11.295+...	✎ 🔍 🗑
3	ObjectId('6930f657eab648...')	"Sofia Martinez"	"sofia.martinez@example...	2025-12-04T03:09:11.295+...	✎ 🔍 🗑

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services					
	_id ObjectId	name String	description String	duration_minutes Int32	active Boolean
1	ObjectId('6930f6a889271...')	"Corte de cabello"	"Corte estándar para cab...	40	true
2	ObjectId('6930f6a889271...')	"Tinte"	"Tinte de cabello"	60	false

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users						
	_id ObjectId	full_name String	email String	phone String	created_at Date	active Boolean
1	ObjectId('6930f6a889271...')	"Juan Pérez"	"juan.perez@example.com"	"*57 3099998888"	2025-12-04T03:09:30.320+...	true
2	ObjectId('6930f6a889271...')	"Ana Gómez"	"ana.gomez@example.com"	"*57 3011112233"	2025-12-04T03:09:30.322+...	true
3	ObjectId('6930f6a889271...')	"María Rodríguez"	"maria.rodriguez@exampl...	"*57 3033334455"	2025-12-04T03:09:30.322+...	true