

# redis

- [from sql to redis](#)
- [from mysql to redis](#)

## string

type **string**: store a value [integer, string, ...] belong a key [string]

```
SET connections 10
INCR connections => 11
INCR connections => 12
DEL connections
INCR connections => 1
```

expiring key

```
SET resource:lock "Redis Demo"
EXPIRE resource:lock 120
```

## list

A list have an order

R PUSH puts the new value at the end of the list. L PUSH puts the new value at the start of the list.  
LLEN, LPOP, RPOP

```
R PUSH friends "Alice"
R PUSH friends "Bob"
```

```
L RANGE friends 0 -1 => 1) "Sam", 2) "Alice", 3) "Bob"
L RANGE friends 0 1 => 1) "Sam", 2) "Alice"
L RANGE friends 1 2 => 1) "Alice", 2) "Bob"
```

## set

A set does not have an order but each element may only appear once.

```
SADD superpowers "flight"
SADD superpowers "x-ray vision"
SADD superpowers "reflexes"
SREM superpowers "reflexes"

SISMEMBER superpowers "flight" => 1
```

```
SISMEMBER superpowers "reflexes" => 1
```

## sorted set

A sorted set is similar to a regular set, but now each value has an associated score. This score is used to sort the elements in the set.

```
ZADD hackers 1940 "Alan Kay"
ZADD hackers 1969 "Linus Torvalds"
ZADD hackers 1906 "Grace Hopper"
ZADD hackers 1953 "Richard Stallman"
```

```
ZRANGE hackers 2 4
1) "Richard Stallman"
2) "Linus Torvalds"
```

## hash

type **hash** for **tables and rows**

namespace:table:id

```
INCR gianoauth:realm:next_user_id => 1
HSET gianoauth:realm:user:1 id 1 username "scipio" name "Stefano Scipioni"
password "hash" visits 0
```

add an INDEX with **sets**: collections of strings that are unordered and cannot contain duplicates

```
SADD gianoauth:realm:all-users gianoauth:realms:users:1
```

visits

```
HINCRBY gianoauth:realm:user:1 visits 1 => 2
```

use multi exec to surround HSET and SADD

```
MULTI
HSET ...
HSET ...
SADD ...
EXEC
```

**sorted set**: like a set a sorted set only allows members without repeats, but also allows you to specify a score

```
ZADD gianoauth:realms:priceIndex 10.99 scipio
```

## gui

- [fastoredis](#)

## server

```
sudo apt install -y redis-server redis-tools
```

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