## **Redis - Sets**

Redis Sets are an unordered collection of unique strings. Unique means sets does not allow repetition of data in a key.

In Redis set add, remove, and test for the existence of members in O(1) (constant time regardless of the number of elements contained inside the Set). The maximum length of a list is  $2^{32}$  - 1 elements (4294967295, more than 4 billion of elements per set).

## Example

```
redis 127.0.0.1:6379> SADD tutorials redis
(integer) 1
redis 127.0.0.1:6379> SADD tutorials mongodb
(integer) 1
redis 127.0.0.1:6379> SADD tutorials mysql
(integer) 1
redis 127.0.0.1:6379> SADD tutorials mysql
(integer) 0
redis 127.0.0.1:6379> SMEMBERS tutorials
1) "mysql"
2) "mongodb"
3) "redis"
```

In the above example, three values are inserted in Redis set named 'tutorials' by the command **SADD**.

## **Redis Sets Commands**

Following table lists some basic commands related to sets.

| Sr.No | Command & Description  |
|-------|--|
| 1     | SADD key member1 [member2] Adds one or more members to a set |
| 2     | SCARD key Gets the number of members in a set                |

| SDIFF key1 [key2] Subtracts multiple sets  |
|--|
| SDIFFSTORE destination key1 [key2] Subtracts multiple sets and stores the resulting set in a key   |
| SINTER key1 [key2] Intersects multiple sets  |
| SINTERSTORE destination key1 [key2] Intersects multiple sets and stores the resulting set in a key |
| SISMEMBER key member  Determines if a given value is a member of a set                             |
| SMEMBERS key Gets all the members in a set   |
| SMOVE source destination member  Moves a member from one set to another                            |
| SPOP key Removes and returns a random member from a set  |
| SRANDMEMBER key [count] Gets one or multiple random members from a set                             |
| SREM key member1 [member2] Removes one or more members from a set                                  |
| SUNION key1 [key2] Adds multiple sets  |
| SUNIONSTORE destination key1 [key2] Adds multiple sets and stores the resulting set in a key       |
| SSCAN key cursor [MATCH pattern] [COUNT count] Incrementally iterates set elements                 |
|  |