

Getting Started with Redis

1. [Redis Crash Course](#)

2. I am also providing the cheat sheet as a go-to doc whenever we feel to revise Redis queries. ****Recommendation is to watch the video first to understand this cheat sheet better****

Redis Cheat Sheet

1. Installation and getting started

- `sudo apt-get install redis`
- `sudo service redis-server stop`
- `Redis-server` (Keep this terminal open and start up new terminal now)
- `redis-cli`

2. Setting and getting a value with the help of key

```
127.0.0.1:6379> SET Darshan BT19CSE070  
OK
```

```
127.0.0.1:6379> GET Darshan  
"BT19CSE070"
```

```
127.0.0.1:6379> SET value 100  
OK
```

```
127.0.0.1:6379> GET value  
"100"
```

3. Deleting key value pair

```
127.0.0.1:6379> DEL value  
(integer) 1
```

```
127.0.0.1:6379> GET Value  
(nil)
```

```
127.0.0.1:6379> EXISTS Darshan  
(integer) 1
```

```
127.0.0.1:6379> EXISTS value  
(integer) 0
```

```
127.0.0.1:6379> KEYS *  
1) "Darshan"  
2) "ffdf"
```

```
127.0.0.1:6379> FLUSHALL  
OK
```

```
127.0.0.1:6379> KEYS *  
(empty list or set)
```

4. Setting expiration period for a key-value pair (Time for which it is going to reside in a memory)

```
127.0.0.1:6379> expire token 10  
(integer) 1
```

```
127.0.0.1:6379> ttl token  
(integer) -2
```

```
127.0.0.1:6379> get token  
(nil)
```

```
127.0.0.1:6379> setex token 10 "1@2323"  
OK
```

```
127.0.0.1:6379> get token  
"1@2323"
```

```
127.0.0.1:6379> get token  
(nil)
```

5. Working with lists

```
127.0.0.1:6379> lpush students Darshan  
(integer) 1
```

```
127.0.0.1:6379> lpush students Ajay  
(integer) 2
```

```
127.0.0.1:6379> lpush students Vijay  
(integer) 3
```

127.0.0.1:6379> lpush students Sam
(integer) 4

127.0.0.1:6379> rpush students student5
(integer) 5

127.0.0.1:6379> rpush students student6
(integer) 6

127.0.0.1:6379> lrange students 0 -1

- 1) "Sam"
- 2) "Vijay"
- 3) "Ajay"
- 4) "Darshan"
- 5) "student5"
- 6) "student6"

127.0.0.1:6379> lpop students
"Sam"

127.0.0.1:6379> lrange students 0 -1

- 1) "Vijay"
- 2) "Ajay"
- 3) "Darshan"
- 4) "student5"
- 5) "student6"

127.0.0.1:6379> rpop students
"student6"

127.0.0.1:6379> lrange students 0 -1

- 1) "Vijay"
- 2) "Ajay"
- 3) "Darshan"
- 4) "student5"

```
127.0.0.1:6379> lindex students 1  
"Ajay"
```

```
127.0.0.1:6379> lrange students 0 2  
1) "Vijay"  
2) "Ajay"  
3) "Darshan"
```

6. Working with sets

```
127.0.0.1:6379> SADD companies SAP  
(integer) 1
```

```
127.0.0.1:6379> SADD companies Oracle  
(integer) 1
```

```
127.0.0.1:6379> SADD companies Airbnb  
(integer) 1
```

```
127.0.0.1:6379> SISMEMBER companies SAP  
(integer) 1
```

```
127.0.0.1:6379> SISMEMBER companies Meta  
(integer) 0
```

```
127.0.0.1:6379> SMEMBERS companies  
1) "Airbnb"  
2) "Oracle"  
3) "SAP"
```

```
127.0.0.1:6379> SREM companies SAP  
(integer) 1
```

127.0.0.1:6379> SMEMBERS companies

1) "Airbnb"

2) "Oracle"

7. Working with Hashes

127.0.0.1:6379> hset student name Darshan
(integer) 1

127.0.0.1:6379> hset student id BT19CSE070
(integer) 1

127.0.0.1:6379> hset student academic_year 3
(integer) 1

127.0.0.1:6379> hget student name
"Darshan"

127.0.0.1:6379> hgetall student

1) "name"

2) "Darshan"

3) "id"

4) "BT19CSE070"

5) "academic_year"

6) "3"

127.0.0.1:6379> hdel student academic year
(integer) 0

127.0.0.1:6379> hdel student academic_year
(integer) 1

127.0.0.1:6379> hgetall student

1) "name"

2) "Darshan"

3) "id"

4) "BT19CSE070"

**127.0.0.1:6379> hexists student academic_year
(integer) 0**

**127.0.0.1:6379> hexists student id
(integer) 1**