

Redis lab 2

Q1. Do the following in the Redis database numbered 5.

```
rajshree@rajshree-VirtualBox:~/Desktop$ redis-cli  
127.0.0.1:6379> select 5  
OK
```

a) Create a hash key named student with fields stdid, name, course.

```
127.0.0.1:6379[5]> hset student stdid 111 name raghaw course dbda  
(integer) 3
```

```
127.0.0.1:6379[5]> hgetall student  
1) "stdid"  
2) "111"  
3) "name"  
4) "raghaw"  
5) "course"  
6) "dbda"
```

b) Add email and contactno fields to student key.

```
127.0.0.1:6379[5]> hset student email "rag@cdac.in" contact_no 123456  
(integer) 2  
127.0.0.1:6379[5]> hgetall student  
1) "stdid"  
2) "111"  
3) "name"  
4) "raghaw"  
5) "course"  
6) "dbda"  
7) "email"  
8) "rag@cdac.in"  
9) "contact_no"  
10) "123456"
```

c) Display the number of fields stored in student key.

```
127.0.0.1:6379[5]> hlen student  
(integer) 5
```

d) Display the value of name field from student key.

```
127.0.0.1:6379[5]> hget student name  
"raghaw"
```

- e) Modify the value of contactno field from student key.

```
127.0.0.1:6379[5]> hset student contact 23564
(integer) 1
127.0.0.1:6379[5]> hget student contact
"23564"
```

- f) Display only the values of all fields from student key.

```
127.0.0.1:6379[5]> hvals student
1) "111"
2) "raghaw"
3) "dbda"
4) "rag@cdac.in"
5) "123456"
6) "23564"
```

- g) Create a list key named courses with values DBDA, DCSF, DAC, DESD.

```
127.0.0.1:6379[5]> lpush courses DBDA DCSF DAC DESD
(integer) 4
127.0.0.1:6379[5]> lrange courses 0 4
1) "DESD"
2) "DAC"
3) "DCSF"
4) "DBDA"
```

- h) Add a new value DMC to the right in courses key.

```
127.0.0.1:6379[5]> lpush courses DMC
(integer) 5
127.0.0.1:6379[5]> lrange courses 0 5
1) "DMC"
2) "DESD"
3) "DAC"
4) "DCSF"
5) "DBDA"
```

- i) Insert a new value DRAT before DCSF in courses key.

```
127.0.0.1:6379[5]> linsert courses before DCSF DRAT
(integer) 6
127.0.0.1:6379[5]> lrange courses 0 6
1) "DMC"
2) "DESD"
3) "DAC"
4) "DRAT"
5) "DCSF"
6) "DBDA"
```

- j) Display the number of elements of courses key.

```
127.0.0.1:6379[5]> llen courses
(integer) 6
```

- k) Display all the elements from courses key.

```
127.0.0.1:6379[5]> lrange courses 0 -1
1) "DMC"
2) "DESD"
3) "DAC"
4) "DRAT"
5) "DCSF"
6) "DBDA"
```

- l) Remove 2 elements from right of courses key.

```
127.0.0.1:6379[5]> rpop courses 2
1) "DBDA"
2) "DCSF"
```

- m) Create a set key named centres with values Trivandrum, Kochi, Mumbai, Pune.

```
127.0.0.1:6379[5]> sadd centres trivendrum kochi mumbai pune
(integer) 4
127.0.0.1:6379[5]> smembers centres
1) "trivendrum"
2) "kochi"
3) "mumbai"
4) "pune"
```

- n) Display all the members from centres key.

```
127.0.0.1:6379[5]> smembers centres
1) "trivendrum"
2) "kochi"
3) "mumbai"
4) "pune"
```

- o) Remove the member Kochi from centres key.

```
127.0.0.1:6379[5]> srem centres kochi
(integer) 1
127.0.0.1:6379[5]> smembers centres
1) "trivendrum"
2) "mumbai"
3) "pune"
```

- p) Create a sorted set key named departments with values STDC, CFS, CSS, ETG.

```
127.0.0.1:6379[5]> zadd departments 1 STDC 2 CSF 3 CSS 4 ETG
(integer) 4
```

- q) Display all the members along with their score from departments key.

```
127.0.0.1:6379[5]> zrange departments 0 -1 withscores
1) "STDC"
2) "1"
3) "CSF"
4) "2"
5) "CSS"
6) "3"
7) "ETG"
8) "4"
```

- r) Remove ETG from departments key.

```
127.0.0.1:6379[5]> zrem departments ETG
(integer) 1
127.0.0.1:6379[5]> zrange departments 0 -1 withscores
1) "STDC"
2) "1"
3) "CSF"
4) "2"
5) "CSS"
6) "3"
```

- s) Display the total number of keys present in the database.

```
127.0.0.1:6379[5]> dbsize
(integer) 7
```

- t) Display the members which contain the letter S from departments key.

```
127.0.0.1:6379[5]> zscan departments 0 match *S*
1) "0"
2) 1) "STDC"
   2) "1"
   3) "CSF"
   4) "2"
   5) "CSS"
   6) "3"
```