

REDIS – LAB 2

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

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

Ans=

```
pratik@pratik-VirtualBox:~/Desktop$ redis-cli -n 5
127.0.0.1:6379[5]> hset student stdid 1 name Mahesh course IT
(integer) 3
127.0.0.1:6379[5]> |
```

b) Add email and contactno fields to student key.

Ans=

```
(integer) 3
127.0.0.1:6379[5]> hset student email mahesh@example.com contactno 7039127576
(integer) 2
127.0.0.1:6379[5]> |
```

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

Ans=

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

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

Ans=

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

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

Ans=

```
127.0.0.1:6379[5]> hvals student
1) "1"
2) "Mahesh"
3) "IT"
4) "mahesh@example.com"
5) "7039127576"
127.0.0.1:6379[5]> hset student contactno 8446987652
(integer) 0
127.0.0.1:6379[5]> hvals student
1) "1"
2) "Mahesh"
3) "IT"
4) "mahesh@example.com"
5) "8446987652"
127.0.0.1:6379[5]>
```

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

Ans=

```
127.0.0.1:6379[5]> hvals student
1) "1"
2) "Mahesh"
3) "IT"
4) "mahesh@example.com"
5) "8446987652"
127.0.0.1:6379[5]> █
```

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

Ans=

```
127.0.0.1:6379[5]> lpush courses DBDA DCSF DAC DESD
(integer) 4
127.0.0.1:6379[5]> █
```

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

Ans=

```
127.0.0.1:6379[5]> lset courses 1 DMC
OK
127.0.0.1:6379[5]> █
```

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

Ans=

```
127.0.0.1:6379[5]> linsert courses before DCSF DRAT
(integer) 5
127.0.0.1:6379[5]> █
```

j) Display the number of elements of courses key.

Ans=

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

k) Display all the elements from courses key.

Ans=

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

l) Remove 2 elements from right of courses key.

Ans=

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

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

Ans=

```
127.0.0.1:6379[5]> sadd centers Trivandrum Kochi Mumbai Pune
(integer) 4
127.0.0.1:6379[5]> |
```

n) Display all the members from centres key.

Ans=

```
127.0.0.1:6379[5]> smembers centers
1) "Trivandrum"
2) "Pune"
3) "Kochi"
4) "Mumbai"
127.0.0.1:6379[5]>
```

o) Remove the member Kochi from centres key.

Ans=

```
1) "Trivandrum"
2) "Pune"
3) "Kochi"
4) "Mumbai"
127.0.0.1:6379[5]> srem centers Kochi
(integer) 1
127.0.0.1:6379[5]> smembers centers
1) "Trivandrum"
2) "Pune"
3) "Mumbai"
127.0.0.1:6379[5]> █
```

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

Ans=

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

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

Ans=

```
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"
127.0.0.1:6379[5]> █
```

r) Remove ETG from departments key.

Ans=

```
127.0.0.1:6379[5]> zrem departments ETG  
(integer) 1
```

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

Ans=

```
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"  
127.0.0.1:6379[5]> 
```

t) Display the total number of keys present in the database.

Ans=

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