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Course : MCS NoSQL (LAB 12)

Redis Commands:

String:

```
> set mem1 Raj

OK

> set mem2 hareesma

OK

> set mem3 Rohin

OK

> set cars kia,alto,beat,innova,qualis

OK

> get mem1

"Raj"

> get mem2

"hareesma"
```

```
> get cars

"kia,alto,beat,innova,qualis"
```

List:

```
> lpush employee chui

(integer) 1

> lpush employee chan

(integer) 2

> lpush employee hari

(integer) 3

> rpush employee lingam

(integer) 4

> lrange employee 0 10

1) "hari"
2) "chan"
3) "chui"
4) "lingam"
```

```
> lrange employee 0 1

1) "hari"
2) "chan"
```

```
> lrange employee 0 10

1) "chan"
2) "chui"
```

Set:

```
> sadd rentalLoc OrionMall

(integer) 1

> sadd rentalLoc funMall

(integer) 1

> sadd rentalLoc2 VaughanMall

(integer) 1

> sadd rentalLoc2 DowntownMall

(integer) 1
```

```
> sunionstore allRentalLocs rentalLoc rentalLoc2

4

> smembers allRentalLocs

1) "VaughanMall"
2) "OrionMall"
3) "DowntownMall"
4) "funMall"
```

```
> sismember allRentalLocs Forum

(integer) 0

> sismember allRentalLocs OrionMall

(integer) 1

> srem rentalLoc OrionMall

1

> smembers rentalLoc

1) "funMall"
```

Hash:

```
> hset id:1000 name Raj ocp student

2

> hset id:1001 name Hareesma ocp Doctor

2

> hset id:1002 name Rohin ocp Engineer

2

> hset id:1003 name Lingam ocp TA

2
```

```
> hgetall id:1003

1) "name"
2) "Lingam"
3) "ocp"
4) "TA"

> hget id:1002 name

"Rohin"

> hdget id:1001 ocp
```

```
> hget id:1001 ocp

"Doctor"

> hdel id:1001 name

(integer) 1

> hgetall id:1001

1) "ocp"
2) "Doctor"
```

```
> hdel id:1001 ocp

(integer) 1

> hgetall id:1001

(empty list or set)
```

Sorted Set:

```
> zadd locid 1001 OrionMall

(integer) 1

> zadd locid 1002 ForumMall

(integer) 1

> zadd locid 1003 VaughanMall

(integer) 1

> zadd locid 1004 DowntownMall

(integer) 1

> zrange locid 0 10

1) "OrionMall"
2) "ForumMall"
3) "VaughanMall"
4) "DowntownMall"
```

SET

```
> mset mem1 "raj" mem2 "rohini" mem3 "kumar" mem4 "gobi"

OK

> get mem1

"raj"

> get mem2

"rohini"

> get mem3

"kumar"

> get mem5

(nil)
```

GET

```
> set mem1 "Raj"

OK

> set mem2 "Kumar"

OK

> set mem3 "Rohini"

OK

> set mem4 "Gobi"

OK

> mget mem1 mem2 mem3 mem4 mem5

1) "Raj"
2) "Kumar"
3) "Rohini"
4) "Gobi"
5) (nil)
```

```
$(echo -en "PING\r\n SET  member
rajkumar\r\n GET member\r\n INCR visitor\r\n INCR visitor\r\n INCR visitor\r\n"; sleep 10) |   nc localhos
t 6379
```

```
Ubuntu 20.04 LTS                                        —    □    ✕
127.0.0.1:6379> ping
PONG
127.0.0.1:6379> ping Rajkumar
"Rajkumar"
127.0.0.1:6379> ping server
"server"
127.0.0.1:6379> (echo "Hello Raj")| nc localhost 6379
Invalid argument(s)
127.0.0.1:6379> (printf "PING\r\nPING\r\nPING\r\n";) | nc localhost 6379
Invalid argument(s)
```

HyperLogLog:

```
Ubuntu 20.04 LTS
127.0.0.1:6379> pfadd cars "Kia-Forte"
(integer) 1
127.0.0.1:6379> pfadd cars "Chev-Beat"
(integer) 1
127.0.0.1:6379> pfadd cars "Toyota-Innova"
(integer) 1
127.0.0.1:6379> pfadd cars "Maruti-Alto"
(integer) 1
127.0.0.1:6379> pfadd cars "Hyundai-Creta"
(integer) 1
127.0.0.1:6379> pfcount Car
(integer) 0
127.0.0.1:6379> pfcount cars
(integer) 5
127.0.0.1:6379> pfadd renLoc "OrionMall" "ForumMall" "VaughanMall"
(integer) 1
127.0.0.1:6379> pfmerge carRent cars renLoc
OK
127.0.0.1:6379>
```

```
Ubuntu 20.04 LTS
127.0.0.1:6379> pfadd mem raj hareesma rohin lingam
(integer) 1
127.0.0.1:6379> pfcount members
(integer) 0
127.0.0.1:6379> pfcount mem
(integer) 4
127.0.0.1:6379>
```

Transaction:

```
Ubuntu 20.04 LTS
127.0.0.1:6379> multi
OK
127.0.0.1:6379> set mem1 raj
QUEUED
127.0.0.1:6379> get mem1
QUEUED
127.0.0.1:6379> incr memTot
QUEUED
127.0.0.1:6379> exec
1) OK
2) "raj"
3) (integer) 1
127.0.0.1:6379>
```

Discard:

```
Ubuntu 20.04 LTS
127.0.0.1:6379> multi
OK
127.0.0.1:6379> pfadd mem chan chui akan hari sonali
QUEUED
127.0.0.1:6379> pfcount members
QUEUED
127.0.0.1:6379> pfcount mem
QUEUED
127.0.0.1:6379> set compName BinodCarShare
QUEUED
127.0.0.1:6379> discard
OK
127.0.0.1:6379>
```

Client Server:

```
Ubuntu 20.04 LTS
127.0.0.1:6379> config get maxclients
1) "maxclients"
2) "10000"
127.0.0.1:6379> client setname binodcarshare
OK
127.0.0.1:6379> client getname
"binodcarshare"
127.0.0.1:6379> client pause 1000
OK
127.0.0.1:6379> client kill
(error) ERR syntax error
127.0.0.1:6379> client list
id=3 addr=127.0.0.1:49822 fd=8 name=binodcarshare age=2891
127.0.0.1:6379> client kill 127.0.0.1:49822
OK
127.0.0.1:6379> client getname
(nil)
127.0.0.1:6379>
```