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Course : MCS NoSQL (CAT 03)

Question 02 – Redis Data Structures (Car Rental System)

Question 02 - 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"
```

Question 02 - 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"
```

Question 02 - 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"
```

Question 02 - 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)
```

Question 02 - 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"
```

Question 02 - HyperLogLog:

```
> pfadd cars "Kia-Forte"
(integer) true
> pfadd cars "Cheverlot-Beat"
(integer) true
> pfadd cars "Toyota-Qualis"
(integer) true
> pfadd cars "Kia-Marz"
(integer) true
> pfadd cars "Hyundai-Creta"
(integer) true
```

```
> pfcount car
(integer) 0
> pfcount cars
```

```
> pfadd renLoc "Tup"

(integer) true

> pfadd renLoc "Chn"

(integer) true

> pfadd renLoc "Cbe"

(integer) true

> pfadd renLoc "Slm"

(integer) true

> pfmerge carRent cars renLoc

(integer) 1
```

Question 04 – SET

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

OK

> get mem1

"raj"

> get mem2

"rohini"

> get mem3

"kumar"

> get mem5

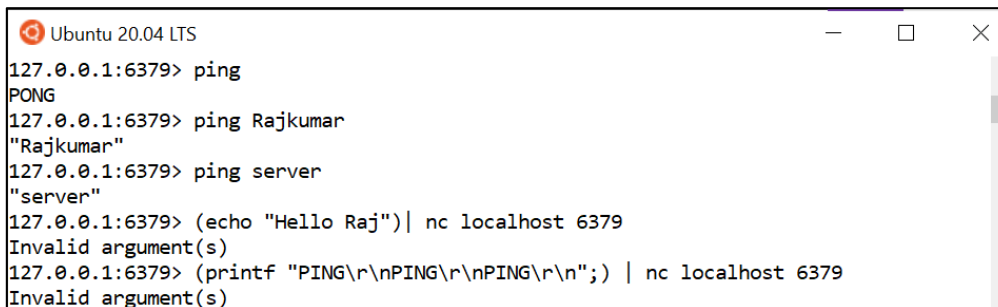
(nil)
```


Question 04 – 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)
```

Question 05:

```
$(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 localhost
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)
```