ASSIGNMENT 5

Himanshu goyal

1: Databases and Selecting one Database:

127.0.0.1:6379[4]> config get databases

1) "databases"

2) "16"

127.0.0.1:6379[4]> select 14

```
127.0.0.1:6379[4]> config get databases
1) "databases"
2) "16"
127.0.0.1:6379[4]> select 14
OK
```

2: Using Redis Keys:

127.0.0.1:6379[14]> set Name "Himanshu"

OK

127.0.0.1:6379[14]> get Name

"Himanshu"

```
127.0.0.1:6379[14]> set Name "Himanshu"
OK
127.0.0.1:6379[14]> get Name
"Himanshu"
```

127.0.0.1:6379[14]> Expire Name 10

(integer) 1

127.0.0.1:6379[14]> get Name

"Himanshu"

127.0.0.1:6379[14]> get Name

"Himanshu"

127.0.0.1:6379[14]> get Name

(nil)

127.0.0.1:6379[14]> get Name

(nil)

```
127.0.0.1:6379[14]> Expire Name 10
(integer) 1
127.0.0.1:6379[14]> get Name
"Himanshu"
127.0.0.1:6379[14]> get Name
"Himanshu"
127.0.0.1:6379[14]> get Name
(nil)
127.0.0.1:6379[14]> get Name
(nil)
127.0.0.1:6379[14]>
```

127.0.0.1:6379[14]> set Name "Sonal Agarwal"

OK

127.0.0.1:6379[14]> get Name

"Sonal Agarwal"

127.0.0.1:6379[14]> move Name 4

(integer) 1

127.0.0.1:6379[14]> select 4

OK

127.0.0.1:6379[4]> get Name

"Sonal Agarwal"

```
127.0.0.1:6379[14]> set Name "Sonal Agarwal"
OK
127.0.0.1:6379[14]> get Name
"Sonal Agarwal"
127.0.0.1:6379[14]> move Name 4
(integer) 1
127.0.0.1:6379[14]> select 4
OK
127.0.0.1:6379[4]> get Name
"Sonal Agarwal"
127.0.0.1:6379[4]>
```

127.0.0.1:6379[4]> rename Name FullName

OK

127.0.0.1:6379[4]> get FullName

"Sonal Agarwal"

```
127.0.0.1:6379[4]> rename Name FullName
OK
127.0.0.1:6379[4]> get FullName
"Sonal Agarwal"
127.0.0.1:6379[4]>
```

127.0.0.1:6379[4]> type FullName

string

```
127.0.0.1:6379[4]> type FullName
string
127.0.0.1:6379[4]>
```

127.0.0.1:6379[4]> set FirstName "Sonal"

OK

127.0.0.1:6379[4]> set LastName "Agarwal"

OK

127.0.0.1:6379[4]> set FullName "Sonal Agarwal"

OK

127.0.0.1:6379[4]> set Age 30

OK

127.0.0.1:6379[4]> keys *Name

1) "FirstName"

2) "FullName"

3) "LastName"

```
127.0.0.1:6379[4]> set FirstName "Sonal"
OK
127.0.0.1:6379[4]> set LastName "Agarwal"
OK
127.0.0.1:6379[4]> set FullName "Sonal Agarwal"
OK
127.0.0.1:6379[4]> set Age 30
OK
127.0.0.1:6379[4]> keys *Name
1) "FirstName"
2) "FullName"
3) "LastName"
127.0.0.1:6379[4]>
```

3: Redis String :

> 127.0.0.1:6379[4]> getRange FullName 0 5
>
> "Sonal "

```
127.0.0.1:6379[4]> getRange FullName 0 5
"Sonal "
127.0.0.1:6379[4]>
```

> 127.0.0.1:6379[4]> MSET FullName "Himanshu Goyal" Age 30 Gender "Male" Address "1920 E 86th ST"
>
> OK
>
> 127.0.0.1:6379[4]> MGET FullName Age Gender Address
>
> 1) "Himanshu Goyal"

2) "30"

3) "Male"

4) "1920 E 86th ST"

```
127.0.0.1:6379[4]> MSET FullName "Himanshu Goyal" Age 30 Gender "Male" Address "1920 E 86th ST"
OK
127.0.0.1:6379[4]> MGET FullName Age Gender Address
1) "Himanshu Goyal"
2) "30"
3) "Male"
4) "1920 E 86th ST"
127.0.0.1:6379[4]>
```

127.0.0.1:6379[4]> strlen Address

(integer) 14

```
127.0.0.1:6379[4]> strlen Address
(integer) 14
127.0.0.1:6379[4]>
```

4: Redis String operations:

127.0.0.1:6379[4]> incr Age

(integer) 31

127.0.0.1:6379[4]> get Age

"31"

```
127.0.0.1:6379[4]> incr Age
(integer) 31
127.0.0.1:6379[4]> get Age
"31"
127.0.0.1:6379[4]>
```

5: Redis SetBit and GetBit:

127.0.0.1:6379[4]> setbit unique_visitor 0 1

(integer) 0

127.0.0.1:6379[4]> setbit unique_visitor 1 0

(integer) 0

127.0.0.1:6379[4]> setbit unique_visitor 2 0

(integer) 0

127.0.0.1:6379[4]> setbit unique_visitor 3 0

(integer) 0

127.0.0.1:6379[4]> setbit unique_visitor 4 0

(integer) 0

127.0.0.1:6379[4]> setbit unique_visitor 5 1

(integer) 0

127.0.0.1:6379[4]> bitcount unique_visitor

(integer) 2

```
127.0.0.1:6379[4]> setbit unique_visitor 0 1
(integer) 0
127.0.0.1:6379[4]> setbit unique_visitor 1 0
(integer) 0
127.0.0.1:6379[4]> setbit unique_visitor 2 0
(integer) 0
127.0.0.1:6379[4]> setbit unique_visitor 3 0
(integer) 0
127.0.0.1:6379[4]> setbit unique_visitor 4 0
(integer) 0
127.0.0.1:6379[4]> setbit unique_visitor 5 1
(integer) 0
127.0.0.1:6379[4]> bitcount unique_visitor
(integer) 2
127.0.0.1:6379[4]>
```

6: Redis Hashes:

127.0.0.1:6379[4]> hmset employeeDetails FullName "Himanshu Goyal" Age 30 Gender "Male" Dept "IT"

OK

127.0.0.1:6379[4]> hgetall employeeDetails

1) "FullName"

2) "Himanshu Goyal"

3) "Age"

4) "30"

5) "Gender"

6) "Male"

7) "Dept"

8) "IT"

```
127.0.0.1:6379[4]> hmset employeeDetails FullName "Himanshu
 Goyal" Age 30 Gender "Male" Dept "IT"
OK
127.0.0.1:6379[4]> hgetall employeeDetails
1) "FullName"
2) "Himanshu Goyal"
3) "Age"
4) "30"
5) "Gender"
6) "Male"
7) "Dept"
8) "IT"
127.0.0.1:6379[4]>
```

7: Redis Lists:

127.0.0.1:6379[4]> LPUSH States "CA" "MN" "WI" "FL" "PR"

(integer) 5

127.0.0.1:6379[4]> LRANGE States 0 3

1) "PR"

2) "FL"

3) "WI"

4) "MN"

127.0.0.1:6379[4]>

127.0.0.1:6379[4]>

127.0.0.1:6379[4]> lpop States

"PR"

127.0.0.1:6379[4]> rpop States

"CA"

```
127.0.0.1:6379[4]>
127.0.0.1:6379[4]> LPUSH States "CA" "MN" "WI" "FL" "PR"
(integer) 5
127.0.0.1:6379[4]> LRANGE States 0 3
1) "PR"
2) "FL"
3) "WI"
4) "MN"
127.0.0.1:6379[4]>
127.0.0.1:6379[4]>
127.0.0.1:6379[4]> lpop States
"PR"
127.0.0.1:6379[4]> rpop States
"CA"
127.0.0.1:6379[4]>
```

8: Redis Sets:

127.0.0.1:6379[4]> sadd States "MN" "CA" "WI" "MI" "MN"

(error) WRONGTYPE Operation against a key holding the wrong kind of value

127.0.0.1:6379[4]> sadd StatesSet "MN" "CA" "WI" "MI" "MN"

(integer) 4

127.0.0.1:6379[4]> smembers StatesSet

1) "MN"

2) "MI"

3) "CA"

4) "WI"

```
127.0.0.1:6379[4]> sadd StatesSet "MN" "CA" "WI" "MI" "MN"

(integer) 4
127.0.0.1:6379[4]> smembers StatesSet
1) "MN"
2) "MI"
3) "CA"
4) "WI"
127.0.0.1:6379[4]>
```

9: Redis Sorted Sets:

127.0.0.1:6379[4]> ZADD Cars 2001 HondaCivic

(integer) 1

127.0.0.1:6379[4]> ZADD Cars 2010 HondaCivicV1

(integer) 1

127.0.0.1:6379[4]> ZADD Cars 2014 HondaCivicV6

(integer) 1

127.0.0.1:6379[4]> ZADD Cars 2012 HondaCivicV2

(integer) 1

```
127.0.0.1:6379[4]> ZADD Cars 2001 HondaCivic
(integer) 1
127.0.0.1:6379[4]> ZADD Cars 2010 HondaCivicV1
(integer) 1
127.0.0.1:6379[4]> ZADD Cars 2014 HondaCivicV6
(integer) 1
127.0.0.1:6379[4]> ZADD Cars 2012 HondaCivicV2
(integer) 1
```

127.0.0.1:6379[4]> ZREVRANGE Cars 0 3 WITHSCORES

1) "HondaCivicV6"

2) "2014"

3) "HondaCivicV2"

4) "2012"

5) "HondaCivicV1"

6) "2010"

7) "HondaCivic"

8) "2001"

```
127.0.0.1:6379[4]> ZREVRANGE Cars 0 3 WITHSCORES
1) "HondaCivicV6"
2) "2014"
3) "HondaCivicV2"
4) "2012"
5) "HondaCivicV1"
6) "2010"
7) "HondaCivic"
8) "2001"
127.0.0.1:6379[4]>
```

10: Redis Publisher:

127.0.0.1:6379[4]> publish buildStatus "Deployed to Prod."

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "defect found in prod."

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "Dev Team is working on it"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "Build have been released to QA"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "QA started Testing"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "QA found Defect"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "Dev fixed the defect and release to QA"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "QA Testing completed"

(integer) 1

127.0.0.1:6379[4]> publish buildStatus "Deployed to Prod."

(integer) 1

127.0.0.1:6379[4]>

```
127.0.0.1:6379[4]> publish buildStatus "Deployed to Prod."
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "defect found in prod."
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "Dev Team is working on it"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "Build have been released to QA"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "QA started Testing"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "QA found Defect"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "Dev fixed the defect and release to QA"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "QA Testing completed"
(integer) 1
127.0.0.1:6379[4]> publish buildStatus "Deployed to Prod."
(integer) 1
127.0.0.1:6379[4]>
```

C:\Program Files\Redis>redis-cli.exe

127.0.0.1:6379> subscribe buildStatus

Reading messages... (press Ctrl-C to quit)

1) "subscribe"

2) "buildStatus"

3) (integer) 1

1) "message"

2) "buildStatus"

3) "Deployed to Prod."

1) "message"

2) "buildStatus"

3) "defect found in prod."

1) "message"

2) "buildStatus"

3) "Dev Team is working on it"

1) "message"

2) "buildStatus"

3) "Build have been released to QA"

1) "message"

2) "buildStatus"

3) "QA started Testing"

1) "message"

2) "buildStatus"

3) "QA found Defect"

1) "message"

2) "buildStatus"

3) "Dev fixed the defect and release to QA"

1) "message"

2) "buildStatus"

3) "QA Testing completed"

1) "message"

2) "buildStatus"

3) "Deployed to Prod."

```
C:\Program Files\Redis>redis-cli.exe
127.0.0.1:6379> subscribe buildStatus
Reading messages... (press Ctrl-C to quit)
1) "subscribe"
2) "buildStatus"
3) (integer) 1
1) "message"
2) "buildStatus"
3) "Deployed to Prod."
1) "message"
2) "buildStatus"
3) "defect found in prod."
1) "message"
2) "buildStatus"
3) "Dev Team is working on it"
1) "message"
2) "buildStatus"
3) "Build have been released to QA"
1) "message"
2) "buildStatus"
3) "QA started Testing"
1) "message"
2) "buildStatus"
3) "QA found Defect"
1) "message"
2) "buildStatus"
3) "Dev fixed the defect and release to QA"
1) "message"
2) "buildStatus"
3) "QA Testing completed"
1) "message"
2) "buildStatus"
3) "Deployed to Prod."
```