Семинар 7

Часть 1. Работа с простыми элементами

```
127.0.0.1:6379> set discipline database
OK
127.0.0.1:6379> set course 2
OK
127.0.0.1:6379> get discipline
"database"
127.0.0.1:6379> exists course
(integer) 1
127.0.0.1:6379> keys *
1) "course"
2) "discipline"
127.0.0.1:6379> rename course age
OK
127.0.0.1:6379> getset age course
"2"
127.0.0.1:6379> keys *
1) "age"
2) "discipline"
```

```
127.0.0.1:6379> getset age "course"
"course"
127.0.0.1:6379> keys *
1) "age"
2) "discipline"
127.0.0.1:6379>
```

Работа с временем жизни

```
127.0.0.1:6379> expire age 10
(integer) 1
127.0.0.1:6379> ttl age
(integer) 5
```

Удаление ключа

```
127.0.0.1:6379> set age 8
OK
127.0.0.1:6379> keys *
1) "age"
127.0.0.1:6379> del age
(integer) 1
127.0.0.1:6379> keys *
(empty list or set)
127.0.0.1:6379>
```

Часть 2. Работа со списками

```
127.0.0.1:6379> RPUSH mySpisok 1
(integer) 1
127.0.0.1:6379> RPUSH mySpisok 2
(integer) 2
127.0.0.1:6379> LPUSH mySpisok -1
(integer) 3
127.0.0.1:6379> LPUSH mySpisok -2
(integer) 4
```

```
127.0.0.1:6379> lrange mySpisok 0 -1
1) "-2"
2) "-1"
3) "1"
4) "2"
```

```
127.0.0.1:6379> LPOP mySpisok
"-2"
127.0.0.1:6379> RPOP mySpisok
"2"
127.0.0.1:6379> lrange mySpisok 0 -1
1) "-1"
2) "1"
127.0.0.1:6379> llen mySpisok
(integer) 2
```

Часть 3. Работа с хеш-таблицами

```
127.0.0.1:6379> HMSET myHashTable keyValue "bookID" firstValue "bookName" secondValue "bookAuthor"
OK
127.0.0.1:6379> HGET myHashTable keyValue
"bookID"
127.0.0.1:6379> HKEYS myHashTable
1) "keyValue"
2) "firstValue"
3) "secondValue"
127.0.0.1:6379> HVALS myHashTable
1) "bookID"
2) "bookName"
3) "bookAuthor"
127.0.0.1:6379> HGETALL myHashTable
1) "keyValue"
2) "bookID"
3) "firstValue"
4) "bookName"
5) "secondValue"
6) "bookAuthor"
127.0.0.1:6379> HDEL myHashTable secondValue
(integer) 1
127.0.0.1:6379> HKEYS myHashTable
1) "keyValue"
2) "firstValue"
```

Часть 4. Работа с множествами

```
127.0.0.1:6379> SADD mySet "c++" "java" "python" "c"
(integer) 4
127.0.0.1:6379> SADD mySet "c++"
(integer) 0
127.0.0.1:6379> SADD mySet "c++" "c++"
(integer) 0
127.0.0.1:6379> SMEMBERS mySet
1) "c++"
2) "java"
3) "python"
4) "c"
127.0.0.1:6379> SCARD mySet
(integer) 4
127.0.0.1:6379> SADD mySecondSet "c++" "java" "scala" "go" "javaScript"
(integer) 5
127.0.0.1:6379> SUNION mySet mySecondSet
1) "javaScript"
2) "c++"
3) "java"
4) "python"
5) "scala"
6) "go"
7) "c"
127.0.0.1:6379> SDIFF mySet mySecondSet
1) "c"
2) "python"
```

```
127.0.0.1:6379> SDIFF mySet mySecondSet
1) "c"
2) "python"
127.0.0.1:6379> SDIFF mySecondSet mySet
1) "javaScript"
2) "go"
3) "scala"
127.0.0.1:6379> SINTER mySet mySecondSet
1) "c++"
2) "java"
```

Очистка

```
127.0.0.1:6379> SADD mySet "c++" "c++"
(integer) 0
127.0.0.1:6379> SMEMBERS mySet
1) "c++"
2) "java"
3) "python"
4) "c"
127.0.0.1:6379> SCARD mySet
(integer) 4
127.0.0.1:6379> SADD mySecondSet "c++" "java" "scala" "go" "javaScript"
(integer) 5
127.0.0.1:6379> SUNION mySet mySecondSet
1) "javaScript"
2) "c++"
3) "java"
4) "python"
5) "scala"
6) "go"
7) "c"
127.0.0.1:6379> SDIFF mySet mySecondSet
1) "c"
2) "python"
127.0.0.1:6379> SDIFF mySecondSet mySet
1) "javaScript"
2) "go"
3) "scala"
127.0.0.1:6379> SINTER mySet mySecondSet
1) "c++"
2) "java"
127.0.0.1:6379> clear
```

```
C:\Users\Даниил\Downloads\

127.0.0.1:6379>
```