COMP1835

Lab 3_extra/optional.   Working with Redis database

Converting JSON into Redis hash and loading mass data

Lab 3.9 Convert JASON into Redis Hash (map)
The below JSON document

```
{

    "colour":"blue",

    "make":"bmw",

    "model":{

       "trim" : "aero",

       "name" : x3

    },

    "features":[ "powerlocks", "moonroof" ]

}
```

can be converted into a Redis hash with the following HSET commands for each pair:

```
> HSET car1 colour blue

> HSET car1 make bmw

> HSET car1 model.trim aero

> HSET car1 model.name x3HSET

> HSET car1 features[0] powerlocks

> HSET car1 features[1] moonroof

> HGETALL car1
```

```
127.0.0.1:6379> HSET car1 colour blue
(integer) 1
127.0.0.1:6379> HSET car1 make bmw
(integer) 1
127.0.0.1:6379> HSET car1 model.trim aero
(integer) 1
127.0.0.1:6379> HSET car1 features[0] powerlocks
(integer) 1
127.0.0.1:6379> HSET car1 features[10 moonroof
(integer) 1
127.0.0.1:6379> HGETALL car1
 1) "colour"
 2) "blue"
 3) "make"
 4) "bmw"
 5) "model.trim"
 6) "aero"
 7) "features[0]"
 8) "powerlocks"
 9) "features[10"
10) "moonroof"
127.0.0.1:6379> █
```
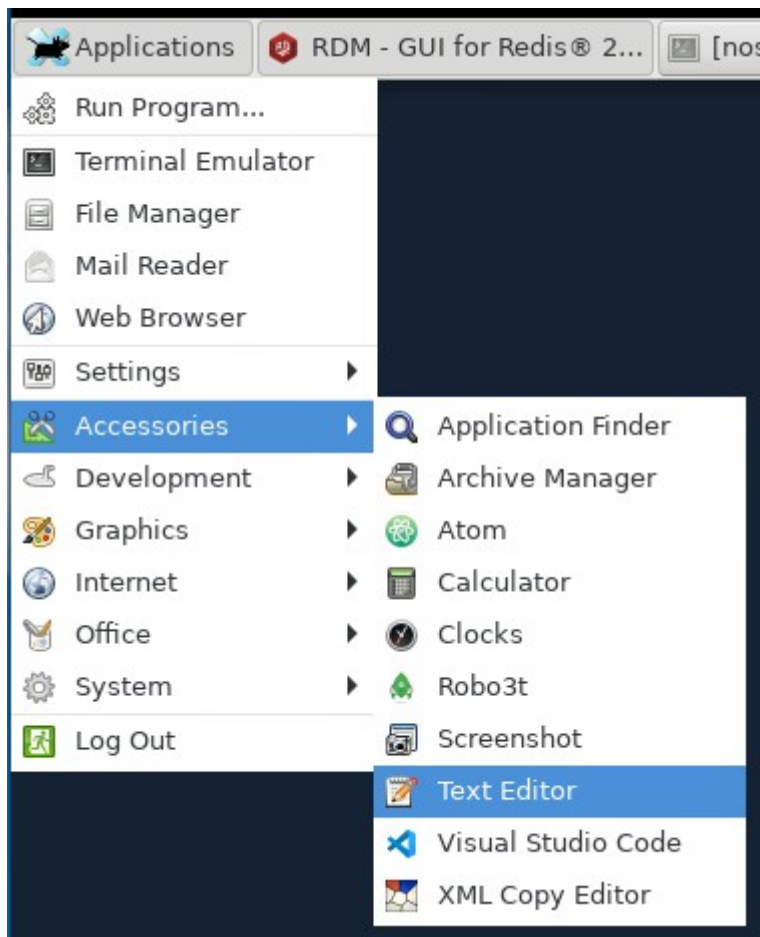
Lab 3.10 Loading large data set.

In 2.6 or later versions of Redis the redis-cli utility supports a new mode called pipe mode that was designed in order to perform mass insertion.
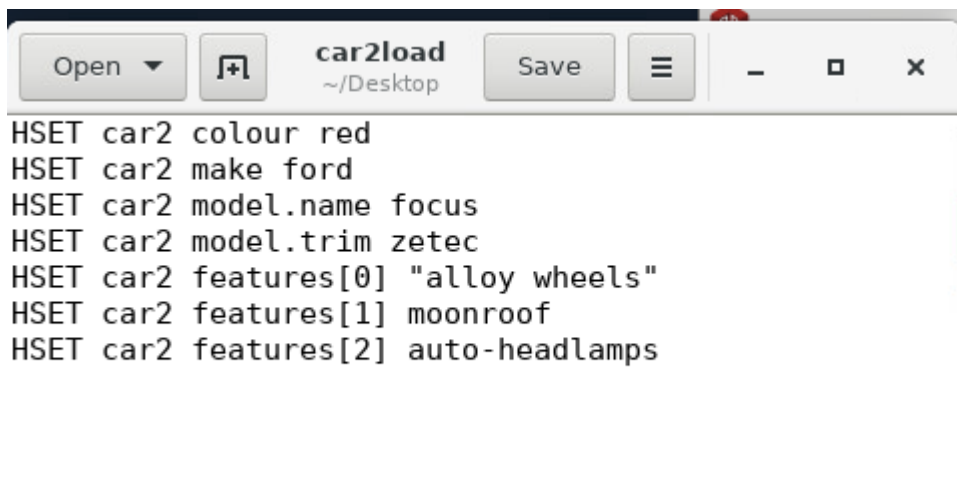
First you need to create a text file with multiple SET commands, or HSET, or others for each key, hash, list, etc.
Then you will use the terminal command: **cat file_name | redis-cli --pipe**
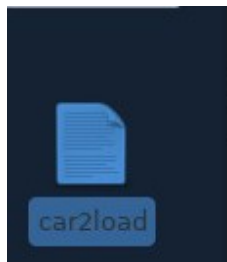

Open Text Editor

Create file with any number of SET or HSET commands, for example:

Save it on the Desktop as a text file, called **car2load**
Then open terminal on the Desktop and run the following command:
```
cat car2load | redis-cli --pipe
```

```
[nosql@nosql Desktop]$ cat car2load | redis-cli --pipe
All data transferred. Waiting for the last reply...
Last reply received from server.
errors: 0, replies: 7
[nosql@nosql Desktop]$
```

To check that the values have been inserted, you can use HGETALL car2 or navigate to Redis Desktop Manager interface and refresh your connection:

Local::db0::car2 ✕

HASH: car2   Rename k...   TTL:-1   🗑 Delete

row	key	value
1	colour	red
2	make	ford
3	model.name	focus
4	model.trim	zetec
5	features[0]	alloy wheels
6	features[1]	moonroof
7	features[2]	auto-headlamps

➕ Add Row
🗑 Delete row
🔄 Reload Value
Search on page...
▶ Full Search

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