No SQL Database

Redis Redis is a type of no sql database. It is an open source no sql database. In Redis is use to store the information using key-value pairs like a Map. Key is unique and value can be duplicate. Using key we can get the value. Redis is known as in memory data structure database. It is use to store the data in database, it provide great features cache concept. It provide message broker feature also.

Speed : Redis store the data in primary memory. It load the data 1,00,000 sets per seconds.

Redis support different type of data types.

Like

String,

Set

List

Hashset

Sorted set etc

Redis RDMBS

It store in primary memory it store the secondary memory

Read and write operation is read and write operation slow. It use

Very fast compare to other database like secondary memory.

RDBMS. Because it use primary memory

It is not use to store huge data It is use to store huge data.

Main use of redis is

1. Cache
2. Global session management.
3. Publisher and subscriber (JMS)

To work with redis database. Please open the command prompt inside redis home directory.

First command prompt

redis-server

Another terminal client

redis-cli

redis database run on default port number 6379 port number

redis string data types

**set key value**

**get key**

**del key**

**exists key**

hashes : hash is a collection of key-value pairs. Hares are map between string and values. So they are used to represent the object or entity.

hmset emp:100 name "Ravi" age 30 city "Bangalore"

hmget emp:100 name

hmget emp:100 age

hmget emp:100 city

list : Redis list is use to store the collection of elements. It maintain the orders.

lpush mylist 100; at beginning

rpush mylist 200 at last

lrange mylist 0,-1 retrieve all elements

lpop remove the element from beginning

rpop remove the elements from last

llen mylist get the size of list

it allow duplicate.

**Set** : Redis set help to store more than unique elements.

sadd myset 100 add the element

sadd myset 400 500 600 add more than one elements

scard myset fine the size of element present in set

srem myset 100 remove the elements from set

creating spring boot project which interact with redis database.

