

云数据库 Redis

最佳实践

产品文档



腾讯云

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最佳实践

Go 语言实现排行榜

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```
package main

import (
    "fmt"
    "math/rand"
    "time"
    "strconv"
    "strings"
    "github.com/garyburd/redigo/redis"
)

func checkErr(err error) {
    if err != nil {
        panic(err.Error())
    }
}

func randomName(length int) string {
    rand.Seed(time.Now().UnixNano())
    rn := make([]string, length)
    for start := 0; start < length; start++ {
        ch := rand.Intn(3)
        switch ch {
        case 0:
            rn = append(rn, strconv.Itoa(rand.Intn(10)))
        case 1:
            rn = append(rn, string(rand.Intn(26) + 65))
        default:
            rn = append(rn, string(rand.Intn(26) + 97))
        }
    }
    return strings.Join(rn, "")
}

func main() {
    const TOTAL_SIZE = 10000
    redisServer := "localhost:6379"
    client, err := redis.Dial("tcp", redisServer)
```

```
checkErr(err)
defer client.Close()
key := "Game Rank"
client.Do("DEL", key)
playerList := make([]string, 0)
for i := 0; i < TOTAL_SIZE; i++ {
    playerList = append(playerList, randomName(8))
}
fmt.Println("*Input all " + strconv.Itoa(TOTAL_SIZE) + " players*")
r := rand.New(rand.NewSource(time.Now().UnixNano()))
for i := 0; i < len(playerList); i++ {
    score := r.Intn(5000)
    member := playerList[i]
    if i < 10 {
        fmt.Println("player: " + member + ", score: " + strconv.Itoa(score))
    }
    client.Do("ZADD", key, score, member)
}
fmt.Println("*more player.....*")
fmt.Println()
fmt.Println("**" + key + "**")
fmt.Println("*Top 100 players*")
scoreList, err := redis.Strings(client.Do("ZREVRANGE", key, 0, 99, "WITHSCORES"))
checkErr(err)
loop := 0
for i := 0; i < len(scoreList) - 1; i += 2 {
    player := scoreList[i]
    score := scoreList[i + 1]
    if loop < 10 {
        fmt.Println("player: " + player + ", score: " + score)
    }
    loop++
}
fmt.Println("*more player.....*")
fmt.Println("**" + key + "**")
selectPlayer := playerList[0]
rank, err := redis.Int(client.Do("ZREVRANK", key, selectPlayer))
checkErr(err)
fmt.Println("The rank of player " + selectPlayer + " is " + strconv.Itoa(rank))
}
```

结果如下：

```
[root@VM_44_132_centos RankTop]# go run RankTop.go
*Input all 10000 players*
player: 8wLf5S1R, score: 1922
player: h6N396f5, score: 3753
player: B3tbrLQ1, score: 747
player: igS7Xh55, score: 2127
player: FCKgLYX1, score: 3606
player: 0j1a857v, score: 3985
player: G9U2Kvwm, score: 969
player: 2lSqr4s6, score: 1699
player: 4hyx7Ca9, score: 2079
player: Qp7175dg, score: 2484
*more player.....*

*Game Rank*
*Top 100 players*
player: dhW5R4z1, score: 4999
player: HE86UaLf, score: 4999
player: Fiky9RsK, score: 4999
player: z714KSM5, score: 4998
player: pVrv6zxh, score: 4998
player: mkNU26jw, score: 4998
player: H9fnMl42, score: 4998
player: Tw12J5yk, score: 4996
player: C2cOtt98, score: 4996
player: 8w2v8jU5, score: 4996
*more player.....*
*Game Rank*
The rank of player 8wLf5S1R is 6180
```

Go 语言获取好友关系

最近更新时间：2019-01-04 10:37:39

```
package main

import (
    "fmt"
    "github.com/garyburd/redigo/redis"
)

func checkErr(err error) {
    if err != nil {
        panic(err)
    }
}

func main() {
    redisServer := "localhost:6379"
    client, err := redis.Dial("tcp", redisServer)
    checkErr(err)
    defer client.Close()

    //my friends
    client.Do("SADD", "myfriends", "John")
    client.Do("SADD", "myfriends", "Emily")
    client.Do("SADD", "myfriends", "Ben")
    client.Do("SADD", "myfriends", "Steven")
    fmt.Println("my friends are: ")
    myList, err := redis.Strings(client.Do("SMEMBERS", "myfriends"))
    checkErr(err)
    for _, item := range myList {
        fmt.Print(item + " ")
    }
    fmt.Println()

    //your friends
    client.Do("SADD", "yourfriends", "Mark")
    client.Do("SADD", "yourfriends", "Tim")
    client.Do("SADD", "yourfriends", "Willim")
    client.Do("SADD", "yourfriends", "Ben")
    client.Do("SADD", "yourfriends", "Steven")
    fmt.Println("your friends are: ")
    youList, err := redis.Strings(client.Do("SMEMBERS", "yourfriends"))
    checkErr(err)
    for _, item := range youList {
```

```
fmt.Print(item + " ")
}
fmt.Println()
fmt.Println("our common friends are: ")
commonList, err := redis.Strings(client.Do("SINTER", "myfriends", "yourfriends"))
checkErr(err)
for _, item := range commonList {
    fmt.Print(item + " ")
}
fmt.Println()
}
```

结果如下：

```
[root@VM_44_132_centos SocialNetwork]# go run SocialNetwork.go
my friends are:
Ben Steven Emily John
your friends are:
Ben Steven Tim Willim Mark
our common friends are:
Ben Steven
```