

# NOSQL DA2

T.VENKAT REDDY 19MIA1104

```
In [2]: pip install redis
```

Collecting redisNote: you may need to restart the kernel to use updated packages.  
 Downloading redis-4.3.4-py3-none-any.whl (246 kB)  
Collecting async-timeout>=4.0.2  
 Downloading async\_timeout-4.0.2-py3-none-any.whl (5.8 kB)  
Collecting deprecated>=1.2.3  
 Downloading Deprecated-1.2.13-py2.py3-none-any.whl (9.6 kB)  
Requirement already satisfied: packaging>=20.4 in c:\users\91798\miniconda3\lib\site-packages (from redis) (21.3)  
Requirement already satisfied: wrapt<2,>=1.10 in c:\users\91798\miniconda3\lib\site-packages (from deprecated>=1.2.3->redis) (1.12.1)  
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\users\91798\miniconda3\lib\site-packages (from packaging>=20.4->redis) (2.4.7)  
Installing collected packages: async-timeout, deprecated, redis  
Successfully installed async-timeout-4.0.2 deprecated-1.2.13 redis-4.3.4

we are installing redis package

```
In [3]: import redis
```

```
In [18]: r = redis.Redis(host='localhost',port=6379, db=0)
```

In below code we are Creating a set and adding values to it. A set in redis contains only unique values. It cannot contain key value pairs. So now we created ipteams set below.

```
In [41]: #Create a set
ipl = "ipl teams " #ipl teams is the key name of the set
```

```
In [42]: #Add values to the set
r.sadd(ipl, "Chennai Super Kings")
r.sadd(ipl, "Mumbai Indians")
r.sadd(ipl, "Kings XI Punjab")
r.sadd(ipl, "Kolkata Knight Riders")
r.sadd(ipl, "Deccan Chargers")
r.sadd(ipl, "Rajasthan Royals")
```

Out[42]: 1

```
In [43]: # Get all members of the set
r.smembers(ipl)
```

Out[43]: {b'Chennai Super Kings',  
b'Deccan Chargers',  
b'Kings XI Punjab',  
b'Kolkata Knight Riders',  
b'Mumbai Indians',  
b'Rajasthan Royals'}

Inserted values below we get output 6 means count of teams what we are inserted.

```
In [44]: #Cardinality of the set
print("Cardinality: ")
print(r.scard(ipl))
```

Cardinality:  
6

Deleting the set Here we deleted our ipl set

```
In [45]: #delete the set using key name
r.delete(ipl) #output is the number of records deleted
```

Out[45]: 1

Creating the key value pairs Below we creating new pairs by gives rank to each team. Below 2021 ipl teams standings(or ranks).

```
In [46]: RankData = {
'Chennai Super Kings': 7,
'Mumbai Indians': 2,
'Kings XI Punjab':3,
'Kolkata Knight Riders':4,
'Deccan Chargers':5,
'Rajasthan Royals': 6,
'Royal Challengers Bangalore':8
}
#adding the key value pairs to the database
r.mset(RankData)
```

Out[46]: True

From above code we inserted key value pairs.

Get the value of a key

```
In [47]: r.get('Chennai Super Kings')
```

Out[47]: b'7'

```
In [51]: r.get('Kings XI Punjab')
```

Out[51]: b'3'

Updating the value of a key

```
In [48]: r.set('Chennai Super Kings',1)
```

Out[48]: True

Deleting a key value pair

```
In [49]: r.delete('Deccan Chargers')
```

Out[49]: 1

Get all keys in the database

Now are keys are listed below

```
In [50]: r.keys('*')
```

Out[50]: [b'Mumbai Indians',  
b'Rajasthan Royals',  
b'Kolkata Knight Riders',  
b'Kings XI Punjab',  
b'Royal Challengers Bangalore',  
b'Chennai Super Kings']

Delete all keys in the database

```
In [52]: r.flushall()
```

Out[52]: True

```
In [ ]:
```