Storage_client_example

December 10, 2021

```
[1]: !pip install nebula2-python==2.6.0
```

```
Collecting nebula2-python==2.6.0
  Downloading nebula2_python-2.6.0-py3-none-any.whl (301 kB)
     |                          | 301 kB 196 kB/s eta 0:00:01
Collecting httplib2
  Downloading httplib2-0.20.2-py3-none-any.whl (96 kB)
     |                          | 96 kB 2.2 MB/s eta 0:00:01
Collecting future
  Downloading future-0.18.2.tar.gz (829 kB)
     |                          | 829 kB 2.0 MB/s eta 0:00:01
Requirement already satisfied: pytz in /opt/conda/lib/python3.9/site-
packages (from nebula2-python==2.6.0) (2021.1)
Requirement already satisfied: six in /opt/conda/lib/python3.9/site-packages
(from nebula2-python==2.6.0) (1.16.0)
Requirement already satisfied:
pyparsing!=3.0.0,!=3.0.1,!=3.0.2,!=3.0.3,<4,>=2.4.2 in
/opt/conda/lib/python3.9/site-packages (from httplib2->nebula2-python==2.6.0)
(2.4.7)
Building wheels for collected packages: future
  Building wheel for future (setup.py) … done
  Created wheel for future: filename=future-0.18.2-py3-none-any.whl
size=491059
sha256=18fbf9dafbc14140ece6d875dc7dfd1b9425eac90cc0a04e3e3d09d4bf0e8a43
  Stored in directory: /home/jovyan/.cache/pip/wheels/2f/a0/d3/4030d9f80e6b3be78
7f19fc911b8e7aa462986a40ab1e4bb94
Successfully built future
Installing collected packages: httplib2, future, nebula2-python
Successfully installed future-0.18.2 httplib2-0.20.2 nebula2-python-2.6.0
```

```
[2]: from nebula2.mclient import MetaCache, HostAddr
     from nebula2.sclient.GraphStorageClient import GraphStorageClient
```

```
[3]: meta_cache = MetaCache([('metad1',9559),('metad0',9559),('metad2',9559)])
```

```
[5]: graph_storage_client = GraphStorageClient(meta_cache)
```

```
[6]: resp = graph_storage_client.scan_vertex(
         space_name='basketballplayer',
         tag_name='player')
```

```
[7]: while resp.has_next():
         result = resp.next()
         for vertex_data in result:
             print(vertex_data)
```

("player112" :player{name: "Jonathon Simmons", age: 29})
("player1120" :player{name: " ", age: 30})
("player117" :player{name: "Stephen Curry", age: 31})
("player119" :player{name: "Kevin Durant", age: 30})
("player134" :player{name: "Blake Griffin", age: 30})
("player141" :player{name: "Ray Allen", age: 43})
("player144" :player{name: "Shaquille O'Neal", age: 47})
("player149" :player{name: "Ben Simmons", age: 22})
("player100" :player{name: "Tim Duncan", age: 42})
("player101" :player{name: "Tony Parker", age: 36})
("player110" :player{name: "Cory Joseph", age: 27})
("player126" :player{name: "Kyrie Irving", age: 26})
("player131" :player{name: "Paul George", age: 28})
("player133" :player{name: "Yao Ming", age: 38})
("player140" :player{name: "Grant Hill", age: 46})
("player105" :player{name: "Danny Green", age: 31})
("player109" :player{name: "Tiago Splitter", age: 34})
("player111" :player{name: "David West", age: 38})
("player1119" :player{name: " ", age: 30})
("player118" :player{name: "Russell Westbrook", age: 30})
("player143" :player{name: "Kristaps Porzingis", age: 23})
("player108" :player{name: "Boris Diaw", age: 36})
("player122" :player{name: "DeAndre Jordan", age: 30})
("player123" :player{name: "Ricky Rubio", age: 28})
("player139" :player{name: "Marc Gasol", age: 34})
("player142" :player{name: "Klay Thompson", age: 29})
("player145" :player{name: "JaVale McGee", age: 31})
("player124" :player{name: "Rajon Rondo", age: 33})
("player127" :player{name: "Vince Carter", age: 42})
("player132" :player{name: "Giannis Antetokounmpo", age: 24})
("player135" :player{name: "Damian Lillard", age: 28})
("player146" :player{name: "Dwight Howard", age: 33})
("player147" :player{name: "Amar'e Stoudemire", age: 36})
("player148" :player{name: "Jason Kidd", age: 45})
("player103" :player{name: "Rudy Gay", age: 32})
("player113" :player{name: "Dejounte Murray", age: 29})
("player121" :player{name: "Chris Paul", age: 33})
("player128" :player{name: "Carmelo Anthony", age: 34})

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("player130" :player{name: "Joel Embiid", age: 25})
("player136" :player{name: "Steve Nash", age: 45})
("player104" :player{name: "Marco Belinelli", age: 32})
("player107" :player{name: "Aron Baynes", age: 32})
("player116" :player{name: "LeBron James", age: 34})
("player120" :player{name: "James Harden", age: 29})
("player125" :player{name: "Manu Ginobili", age: 41})
("player137" :player{name: "Dirk Nowitzki", age: 40})
("player114" :player{name: "Tracy McGrady", age: 39})
("player150" :player{name: "Luka Doncic", age: 20})
("player102" :player{name: "LaMarcus Aldridge", age: 33})
("player106" :player{name: "Kyle Anderson", age: 25})
("player115" :player{name: "Kobe Bryant", age: 40})
("player129" :player{name: "Dwyane Wade", age: 37})
("player138" :player{name: "Paul Gasol", age: 38})
```

[9]:
```python
resp = graph_storage_client.scan_edge(
    space_name='basketballplayer',
    edge_name='follow')
```

[10]:
```python
while resp.has_next():
    result = resp.next()
    for edge_data in result:
        print(edge_data)
```

```
("player134")-[:follow@0{degree: -1}]->("player121")
("player141")-[:follow@0{degree: 9}]->("player124")
("player144")-[:follow@0{degree: 80}]->("player100")
("player144")-[:follow@0{degree: 100}]->("player145")
("player149")-[:follow@0{degree: 80}]->("player130")
("player100")-[:follow@0{degree: 100}]->("player101")
("player100")-[:follow@0{degree: 95}]->("player125")
("player101")-[:follow@0{degree: 1111}]->("player100")
("player101")-[:follow@0{degree: 90}]->("player102")
("player101")-[:follow@0{degree: 95}]->("player125")
("player126")-[:follow@0{degree: 13}]->("player116")
("player131")-[:follow@0{degree: 95}]->("player118")
("player133")-[:follow@0{degree: 90}]->("player114")
("player133")-[:follow@0{degree: 90}]->("player144")
("player140")-[:follow@0{degree: 90}]->("player114")
("player105")-[:follow@0{degree: 70}]->("player100")
("player105")-[:follow@0{degree: 83}]->("player104")
("player105")-[:follow@0{degree: 80}]->("player116")
("player109")-[:follow@0{degree: 80}]->("player100")
("player109")-[:follow@0{degree: 90}]->("player125")
("player118")-[:follow@0{degree: 90}]->("player120")
("player118")-[:follow@0{degree: 90}]->("player131")
("player143")-[:follow@0{degree: 90}]->("player150")
```

```
("10")-[:follow@0{degree: __NULL__}]->("11")
("player108")-[:follow@0{degree: 80}]->("player100")
("player108")-[:follow@0{degree: 80}]->("player101")
("player139")-[:follow@0{degree: 99}]->("player138")
("player142")-[:follow@0{degree: 90}]->("player117")
("player104")-[:follow@0{degree: 55}]->("player100")
("player104")-[:follow@0{degree: 50}]->("player101")
("player104")-[:follow@0{degree: 60}]->("player105")
("player107")-[:follow@0{degree: 80}]->("player100")
("player116")-[:follow@0{degree: 100}]->("player141")
("player120")-[:follow@0{degree: 80}]->("player118")
("player125")-[:follow@0{degree: 90}]->("player100")
("player137")-[:follow@0{degree: 10}]->("player129")
("player137")-[:follow@0{degree: 80}]->("player136")
("player137")-[:follow@0{degree: 80}]->("player148")
("player114")-[:follow@0{degree: 90}]->("player103")
("player114")-[:follow@0{degree: 90}]->("player115")
("player114")-[:follow@0{degree: 90}]->("player140")
("player150")-[:follow@0{degree: 80}]->("player120")
("player150")-[:follow@0{degree: 90}]->("player137")
("player150")-[:follow@0{degree: 90}]->("player143")
("player102")-[:follow@0{degree: 75}]->("player100")
("player102")-[:follow@0{degree: 75}]->("player101")
("player129")-[:follow@0{degree: 90}]->("player116")
("player129")-[:follow@0{degree: 90}]->("player121")
("player129")-[:follow@0{degree: 90}]->("player128")
("player138")-[:follow@0{degree: 90}]->("player115")
("player138")-[:follow@0{degree: 99}]->("player139")
("player124")-[:follow@0{degree: -1}]->("player141")
("player127")-[:follow@0{degree: 90}]->("player114")
("player127")-[:follow@0{degree: 70}]->("player148")
("player135")-[:follow@0{degree: 80}]->("player102")
("player147")-[:follow@0{degree: 90}]->("player136")
("player148")-[:follow@0{degree: 80}]->("player127")
("player148")-[:follow@0{degree: 90}]->("player136")
("player148")-[:follow@0{degree: 85}]->("player137")
("player103")-[:follow@0{degree: 70}]->("player102")
("player113")-[:follow@0{degree: 99}]->("player100")
("player113")-[:follow@0{degree: 99}]->("player101")
("player113")-[:follow@0{degree: 99}]->("player104")
("player113")-[:follow@0{degree: 99}]->("player105")
("player113")-[:follow@0{degree: 99}]->("player106")
("player113")-[:follow@0{degree: 99}]->("player116")
("player113")-[:follow@0{degree: 99}]->("player118")
("player113")-[:follow@0{degree: 99}]->("player119")
("player113")-[:follow@0{degree: 99}]->("player120")
("player113")-[:follow@0{degree: 99}]->("player121")
("player113")-[:follow@0{degree: 99}]->("player125")
```

```
("player121")-[:follow@0{degree: 90}]->("player116")
("player121")-[:follow@0{degree: 90}]->("player128")
("player121")-[:follow@0{degree: 90}]->("player129")
("player128")-[:follow@0{degree: 90}]->("player116")
("player128")-[:follow@0{degree: 90}]->("player121")
("player128")-[:follow@0{degree: 90}]->("player129")
("player130")-[:follow@0{degree: 80}]->("player149")
("player136")-[:follow@0{degree: 90}]->("player117")
("player136")-[:follow@0{degree: 88}]->("player137")
("player136")-[:follow@0{degree: 90}]->("player147")
("player136")-[:follow@0{degree: 85}]->("player148")
```