

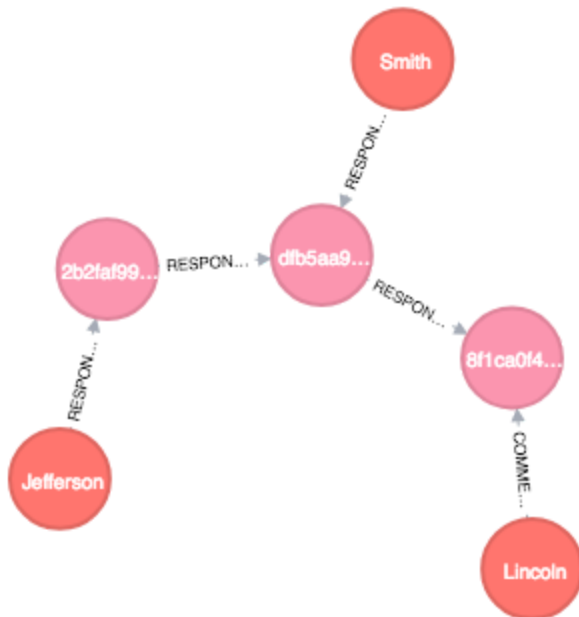
CREATED COMMENT ON TEAM AND PLAYER



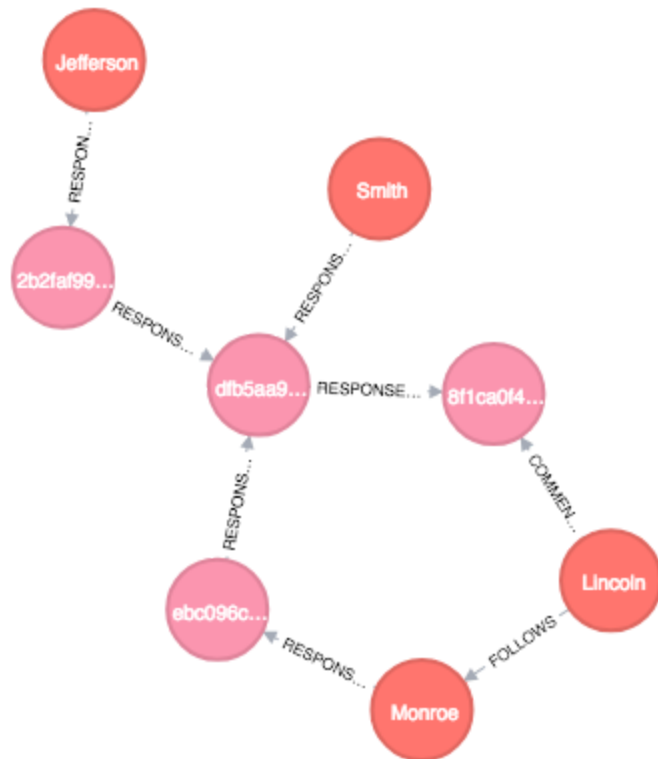
CREATED SUB COMMENTS



RETRIEVED PLAYERS AND THEIR COMMENTS
get_player_comments



CREATED ADDITIONAL PLAYER SUB COMMENT



TEST_GET_PLAYER_COMMENTS:

test_get_player_comments("pedroud01")

```
[{"coc": {"comment_id": "dfb5aa91-d90d-4277-a49f-c9e488ad04c4", "comment": "Totally agree!"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "origin_fan": {"uni": "al1", "last_name": "Lincoln", "first_name": "Abraham"}, "fan": {"uni": "js1", "last_name": "Smith", "first_name": "John"}}, {"coc": {"comment_id": "2b2faf99-a552-47a4-9217-d68c11fcb87f", "comment": "YOU ROCK!"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "origin_fan": {"uni": "al1", "last_name": "Lincoln", "first_name": "Abraham"}, "fan": {"uni": "tj1", "last_name": "Jefferson", "first_name": "Thomas"}}, {"coc": {"comment_id": "ebc096c4-73ac-4047-80ec-50cb3c0b305d", "comment": "nah!"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "origin_fan": {"uni": "al1", "last_name": "Lincoln", "first_name": "Abraham"}, "fan": {"uni": "jm1", "last_name": "Monroe", "first_name": "James"}}]
[Finished in 0.8s]
```

TEST_GET_TEAM_COMMENTS:

test_get_team_comments("BOS")

```
[{"origin_fan": {"first_name": "Abraham", "uni": "al1", "last_name": "Lincoln"}, "fan": {"first_name": "John", "uni": "js1", "last_name": "Smith"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "coc": {"comment_id": "dfb5aa91-d90d-4277-a49f-c9e488ad04c4", "comment": "Totally agree!"}}, {"origin_fan": {"first_name": "Abraham", "uni": "al1", "last_name": "Lincoln"}, "fan": {"first_name": "Thomas", "uni": "tj1", "last_name": "Jefferson"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "coc": {"comment_id": "2b2faf99-a552-47a4-9217-d68c11fcb87f", "comment": "YOU ROCK!"}}, {"origin_fan": {"first_name": "Abraham", "uni": "al1", "last_name": "Lincoln"}, "fan": {"first_name": "James", "uni": "jm1", "last_name": "Monroe"}, "oc": {"comment_id": "8f1ca0f4-cfa1-4d73-8cd6-76e8b672351a", "comment": "Awesome"}, "coc": {"comment_id": "ebc096c4-73ac-4047-80ec-50cb3c0b305d", "comment": "nah!"}}]
[Finished in 1.7s]
```

3 ITERATIONS OF QUERYING REDIS CACHE

unit_test.test3()

```

CACHE MISS
Q = SELECT  playerID,teamID,yearID,H,AB,HR  FROM Batting WHERE teamID='BOS' AND playerID='ortizda01' AND
yearID='2004';
Args =
Resource = "Batting"
Template = {
  "teamID": "BOS",
  "playerID": "ortizda01",
  "yearID": "2004"
}
Fields = [
  "playerID",
  "teamID",
  "yearID",
  "H",
  "AB",
  "HR"
]
Items = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = (('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004'))
Result: Batting:teamID=BOS,playerID=ortizda01,yearID=2004,f=AB,H,HR,playerID,teamID,yearID
Adding key = "Batting:teamID=BOS,playerID=ortizda01,yearID=2004,f=AB,H,HR,playerID,teamID,yearID"
Adding data {
  "AB": "582",
  "playerID": "ortizda01",
  "teamID": "BOS",
  "H": "175",
  "yearID": "2004",
  "HR": "41"
}
added
test1: result[ 0 ]= [{"AB": "582", "playerID": "ortizda01", "teamID": "BOS", "H": "175", "yearID": "2004",
"HR": "41"}]

```

KEY ADDED TO CACHE

```

CACHE HIT
Resource = "Batting"
Template = {
  "teamID": "BOS",
  "playerID": "ortizda01",
  "yearID": "2004"
}
Fields = [
  "playerID",
  "teamID",
  "yearID",
  "H",
  "AB",
  "HR"
]
Items = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = (('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004'))
Result: Batting:teamID=BOS,playerID=ortizda01,yearID=2004,f=AB,H,HR,playerID,teamID,yearID
test1: result[ 2 ]= {"AB": "582", "playerID": "ortizda01", "yearID": "2004", "H": "175", "HR": "41",
"teamID": "BOS"}

```

```
CACHE HIT
Resource = "Batting"
Template = {
  "teamID": "BOS",
  "playerID": "ortizda01",
  "yearID": "2004"
}
Fields = [
  "playerID",
  "teamID",
  "yearID",
  "H",
  "AB",
  "HR"
]
Items = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = dict_items([('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004')])
t = (('teamID', 'BOS'), ('playerID', 'ortizda01'), ('yearID', '2004'))
Result: Batting:teamID=BOS,playerID=ortizda01,yearID=2004,f=AB,H,HR,playerID,teamID,yearID
test1: result[ 2 ]= {"AB": "582", "playerID": "ortizda01", "yearID": "2004", "H": "175", "HR": "41",
"teamID": "BOS"}
```