

Neo4j Query

If we need create node for new user: (we will add "yehia")

```
create(e:names{firstname: "yehia",state:"green"})
```

now If we need to add new address: (we will add "smoha")

```
create(e:address{address: "smoha"})
```

now if we need to connect this user with this address:

```
match(e:names{firstname:"yehia"}) ,(d:address{address:"smoha"}) create(e)-[w:youraddress]->(d)
```

now if we need to add new company: (we will add 'home')

```
create(e:company{company: "home"})
```

now we need to connect this user with this company:

```
match(e:names{firstname:"yehia"}) ,(d:company{company:"home"}) create(e)-[w:workplace]->(d)
```

now if we need to search for any node (user or address or company) if it in on database or not:

- **match** (e:names{firstname:"yehia"}) **return** e
- **match** (e:address{address:"smoha"}) **return** e
- **match** (e:company{company:"home"}) **return** e

now if we want to get all information about user (her address and company):

```
MATCH (a:names{firstname:"yehia"})-[r]-(b) RETURN a, r, b
```

Get only address for specific user:

```
match (e:names{firstname:"yehia"})-[w:youraddress]->(d:address) return d
```

get only company for specific user:

```
match (e:names{firstname:"yehia"})-[w:workplace]->(d:company) return d
```

Get all users in specific address:

```
Match (n:address{address:"smoha"})-[r]-(m) Return n,r,m
```

Get all users in specific company:

```
Match (n:company{company:"home"})-[r]-(m) Return n,r,m
```

Neo4j Query

Get all user have same address or company for specific user: (I will search for yehia)

```
Match (n:names{firstname:"yehia"})-[r]-(m)-[r2]-(c) Return c
```

Change state for specific user to red:

```
match (e:names{firstname:"yehia"}) set e.state="red"
```

change state for all users have same address and company for specific user to yellow:

```
Match (n:names{firstname:"yehia"})-[r]-(m)-[r2]-(c) set c.state='yellow'
```

set state of input user automatically to yellow if there is another user in her address or company has red state

```
Match (n:names{firstname:"yehia"})-[r]-(m)-[r2]-(c) where c.state='red' set n.state='yellow'
```