MEMBANGUN DATABASE GRAPH (NEO 4J)

1. Membuat node seperti berikut :

```
neo4j$ create (:wanita {nama: "novia"}), (:wanita {nama: "fafa"})
```

neo4j$ create (:wanita {nama: "novia"}), (:wanita {nama: "fafa"}) ☆ 📌 ↗ ∧ ⟳ ✕

Added 2 labels, created 2 nodes, set 2 properties, completed after 1 ms.

Table

Code

2. Membuat relationship antara kedua nodes tersebut

```
⚠ 1 match (a:wanita {nama: "novia"}), (c:wanita {nama: "fafa"})
  2 create (a)-[bb:teman]→(c)
```

neo4j$ match (a:wanita {nama: "novia"}), (c:wanita {nama: "fafa"}) create (a)-[bb:teman]→(c)

Created 1 relationship, completed after 11 ms.

Table

Warn

Code

novia ——— teman ———→ fafa

3. Menghapus relationship

```
neo4j$ match  ()-[bb:teman]-() delete bb
```

neo4j$ match ()-[bb:teman]-() delete bb

Table

Deleted 1 relationship, completed after 1 ms.

Code

Deleted 1 relationship, completed after 1 ms.

4. Menghapus node

```
neo4j$ match (c:wanita {nama: "fafa"}) delete c
```

neo4j$ match (c:wanita {nama: "fafa"}) delete c

Table

Deleted 1 node, completed after 1 ms.

Code

Deleted 1 node, completed after 1 ms.
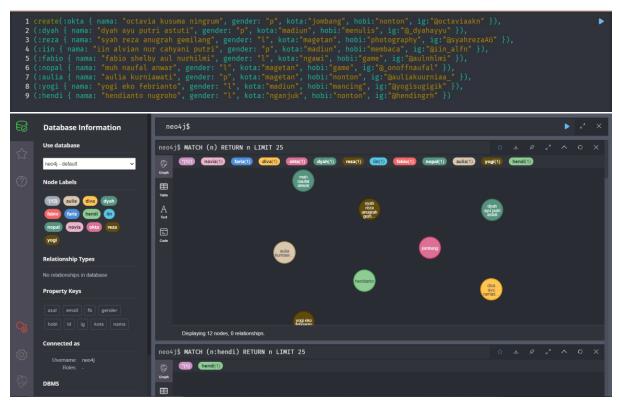
STUDI KASUS

Bangunlah sebuah graph database Neo4j untuk menyimpan data social media yang ada pada kelas Anda. Buat minimal 10 nodes yang terdiri dari teman-teman Anda lalu kembangkan relationship dan properties dari tiap-tiap node tersebut, misal jenis kelamin, kota dan kecamatan asal, makanan favorit, hobi, asal SMA/SMK, dsb.

```
1 create(:okta { nama: "octavia kusuma ningrum", gender: "p", kota:"jombang", hobi:"nonton", ig:"@octaviaakn" }),
2 (:dyah { nama: "dyah ayu putri astuti", gender: "p", kota:"madiun", hobi:"menulis", ig:"@_dyahayyu" }),
3 (:reza { nama: "syah reza anugrah gemilang", gender: "l", kota:"magetan", hobi:"photography", ig:"@syahrezaAG" }),
4 (:iin { nama: "iin alvian nur cahyani putri", gender: "p", kota:"madiun", hobi:"membaca", ig:"@iin_alfn" }),
5 (:fabio { nama: "fabio shelby aul nurhilmi", gender: "l", kota:"ngawi", hobi:"game", ig:"@aulnhlmi" }),
6 (:nopal { nama: "muh naufal anwar", gender: "l", kota:"magetan", hobi:"game", ig:"@_onoffnaufal" }),
7 (:aulia { nama: "aulia kurniawati", gender: "p", kota:"magetan", hobi:"nonton", ig:"@auliakuurniaa_" }),
8 (:yogi { nama: "yogi eko febrianto", gender: "l", kota:"madiun", hobi:"mancing", ig:"@yogisugigik" }),
9 (:hendi { nama: "hendianto nugroho", gender: "l", kota:"nganjuk", hobi:"nonton", ig:"@hendingrh" })
```



```
neo4j$ MATCH (a:novia {nama: "bachtiar al fariz"}) DELETE a
```

```
neo4j$ MATCH (a:novia {nama: "bachtiar al fariz"}) DELETE a
```

Deleted 1 node, completed after 2 ms.

Deleted 1 node, completed after 2 ms.

```
1 MATCH (f:novia),(d:fariz),(a:iin),(b:diva),(c:dyah),(e:lala),(z:okta),(g:reza),(h:yogi),
  (i:aulia),(j:fabio),(k:hendi),(l:nopal)
2 WHERE f.gender = "p" AND d.gender ="l" and a.gender ="p" and b.gender ="l" and c.gender ="p"
  and e.gender ="p" and z.gender ="p" and g.gender ="l" and h.gender ="l"and i.gender ="p"and
  j.gender ="l"and k.gender ="l"and l.gender ="l"
3 CREATE (f)-[fl:follow]→(d), (f)-[sl:follow]→(a), (f)-[fdl:follow]→(b), (f)-[ffl:follow]→
  (c), (f)-[ml:follow]→(e), (f)-[fvl:follow]→(z), (f)-[fcl:follow]→(g), (f)-[fxl:follow]→
  (h), (f)-[fzl:follow]→(i), (f)-[fbl:follow]→(j), (f)-[fnl:follow]→(k), (f)-[fml:follow]→
  (l),
4 (d)-[fgl:follow]→(f), (a)-[fhl:follow]→(f), (b)-[fjl:follow]→(f), (c)-[fkl:follow]→(f),
  (e)-[fll:follow]→(f), (z)-[fql:follow]→(f), (l)-[wfl:follow]→(f), (k)-[efl:follow]→(f),
  (j)-[rfl:follow]→(f), (i)-[ftl:follow]→(f), (h)-[yfl:follow]→(f), (g)-[ufl:follow]→(f)
```

Hasil :