

Compte Rendu TP4

Partie 3

Question 1.1

```
match(n {prenom: "Emile"})  
set n.age = 21  
return n;
```

Question 1.2

```
match (n:Personne) set n.travail="non";  
  
match (n:Personne)-[r:TRAVAILLE_A]→()  
set n.travail = "oui"
```

Question 2.a

```
match (n:Personne)  
where n.travail = "oui"  
return n;
```

Question 2.b

```
match (n:Personne)-[r:ETUDIE_A]→()  
return n;
```

Question 2.c

```
match (n:Personne)  
where n.age > 50 and n.travail = "oui"  
return n;
```

Question 2.d

```
match (n:Personne)-[r:TRAVAILLE_A {poste:"Ingenieur"}]→(m:EntrepriseInstitut)  
return n,m;
```

Question 2.e

```
match (n:Personne)-[r:EST_AMI_AVEC]→(m:Personne)
where n.prenom = "Bruno"
return m;
```

Question 2.f

```
match (n)-[*1..2]-(m:Personne)
where n.prenom = "Bruno"
return m;
```

Question 2.g

```
match (n:Personne)-[r:EST_AMI_AVEC]-(m:Personne)
where n.prenom = "Bruno"
return m;
```

Question 2.h

```
match (n:Personne)-[:EST_AMI_AVEC *2]-(m:Personne)
where n.prenom="Bruno"
return m;
```

Question 2.i

```
match (n:Personne)-[]→(m:EntrepriseInstitut)
return count (n) as count;
```

Question 2.j

```
match (n:Personne)-[]-(m:EntrepriseInstitut)
with m, count (n) as nb
order by nb
return m.nom, nb;
```

Question 2.k

```
match (n:Personne)-[:EST_AMI_AVEC]-(m:Personne)
where m.travaille = "oui"
with n, count (m) as nb
where nb ≥ 2
return n.prenom;
```

Question 2.l

```
match chemin = allShortestPaths((m{prenom:"Bruno"})-[*]-(n{nom:"Informatique"}))
return extract (noeuds in nodes(chemin));
```

Question 2.m

```
explain match chemin = allShortestPaths((m{prenom:"Bruno"})-[*]-(n{nom:"Informatique"}))
return extract (noeuds in nodes(chemin));
```