## TD 5 Les vues – Les triggers

Base de données Semestre 3

## 1 Écriture de vues pour l'écriture de requetes complexes

## 2 Utilisation de triggers pour la génération automatique des valeurs de colonnes "dérivées"

```
CREATE OR REPLACE TRIGGER T_A_DIU_PROPP

after DELETE OR INSERT OR UPDATE of idP on propP

for each row

begin

if deleting then

UPDATE plat SET nbResto = nbResto-1 WHERE idP = :old.idP;

UPDATE resto SET nbplat = nbPlat-1 WHERE idR = :old.idR;

else if inserting then

UPDATE plat SET nbResto = nbResto+1 WHERE idP = :old.idP;

UPDATE plat SET nbResto = nbResto+1 WHERE idR = :old.idP;

UPDATE resto SET nbplat = nbPlat+1 WHERE idR = :old.idR;

else

UPDATE plat SET nbResto = nbResto-1 WHERE idP = :old.idP;

UPDATE plat SET nbResto = nbResto-1 WHERE idP = :new.idP;

end if;

end
```

```
1 CREATE OR REPLACE TRIGGER T_A_DIU_PROPP
 after DELETE OR INSERT OR UPDATE of idP on propP
  for each row
  begin
    if deleting then
      UPDATE plat SET nbResto = nbResto-1 WHERE idP = :old.idP;
      UPDATE resto SET nbplat = nbPlat-1 WHERE idR = :old.idR;
      UPDATE plat SET
          prixMoy = (prixMoy*(nbResto+1)-old.prixP)/nbResto
        WHERE idP = :old.idP
10
    else if inserting then
      UPDATE plat SET nbResto = nbResto+1 WHERE idP = :old.idP;
      UPDATE resto SET nbplat = nbPlat+1 WHERE idR = :old.idR;
      UPDATE plat SET
          prixMoy = (prixMoy*nbResto-1)+:newpriP)/nbResto
15
    else
16
      if updating(idP) then
17
        UPDATE plat SET nbResto = nbResto-1 WHERE idP=:old.idP;
        UPDATE plat SET nbResto = nbResto+1 WHERE idP=:new.idP;
        UPDATE plat SET
20
            prixMoy = (prixMoy*(nbResto+1)-:old.prixP)/nbResto
21
          WHERE idP=:old.idp;
22
        UPDATE plat SET
23
             prixMoy = (prixMoy*(nbResto-1)-:old.prixP)/nbResto
24
          WHERE idP=:new.idp;
      else -- cas updating(prixP)
        UPDATE plat SET
            prixMoy = prixMoy+(:new.prixPold-old.)/nbResto
          WHERE idP=new.idP;
29
      end if;
30
    end if;
  end
```