Speed Recap 3 - Exemples

En Vrac 3 - Exemples

nb articles par gammes

```
select
        codeGam,
        count(codeGam) as 'total articles'
from articles
group by codeGam
```

JOINTURE

```
SELECT
        a.refart,
        COUNT(*) Total
FROM
        lignesfic lf
        JOIN articles a ON a.refart = lf.refart
GROUP BY
        a.refart
HAVING
        count(*) > 2;
```

UNION : fusion de requete

```
SELECT
        f.noFic,
        c.nom, c.prenom,
        a.refart, a.designation,
        lf.depart, lf.retour,
        t.prixJour,
        DATEDIFF(day,lf.depart,lf.retour) * t.prixJour as Montant,
        DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) *
t.prixJour as Montant2
FROM
        Clients c
        JOIN Fiches f ON c.noCli = f.noCli
        JOIN LignesFic lf ON lf.noFic = f.noFic
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeGam = a.codeGam AND
gt.codeCate = a.codeCate
        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
WHERE
        f.noFic = 1002

UNION

SELECT
        null, null, null, null, null, null, null, null,
        SUM(DATEDIFF(day,lf.depart,lf.retour) * t.prixJour) as
Montant,
        SUM(DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) *
```

```
t.prixJour) as Montant2
FROM
        Clients c
        JOIN Fiches f ON c.noCli = f.noCli
        JOIN LignesFic lf ON lf.noFic = f.noFic
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeGam = a.codeGam AND
gt.codeCate = a.codeCate
        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
WHERE
        f.noFic = 1002
ORDER by
        montant;
```

Bien si on veut un resultat brut mais pas gerable pour recup les data par une appli

Jointure de sous-requête

```
SELECT
        f.noFic,
        c.nom, c.prenom,
        a.refart, a.designation,
        lf.depart, lf.retour,
        t.prixJour,
        DATEDIFF(day,lf.depart,lf.retour) * t.prixJour as Montant,
        DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) *
t.prixJour as Montant2,
        tmp.le_montant
FROM
        Clients c
        JOIN Fiches f ON c.noCli = f.noCli
        JOIN LignesFic lf ON lf.noFic = f.noFic
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeGam = a.codeGam AND
gt.codeCate = a.codeCate
        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
        JOIN (
                SELECT
                        f.noFic le_numero_de_fiche,

SUM(DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) * t.prixJour)
as le_montant
                FROM
                        Clients c
                        JOIN Fiches f ON c.noCli = f.noCli
                        JOIN LignesFic lf ON lf.noFic = f.noFic
                        JOIN Articles a ON a.refart = lf.refart
                        JOIN GrilleTarifs gt ON gt.codeGam =
a.codeGam AND gt.codeCate = a.codeCate
                        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
                WHERE
                        f.noFic = 1002
                GROUP BY
                        f.noFic) tmp ON f.noFic =
tmp.le_numero_de_fiche
WHERE
        f.noFic = 1002;
```

Meme resultat, requete mieux optimisée

Sous-requete, sans jointure

```sql
SELECT
        f.noFic,
        c.nom, c.prenom,
        a.refart, a.designation,
        lf.depart, lf.retour,
        t.prixJour,
        DATEDIFF(day,lf.depart,lf.retour) * t.prixJour as Montant,
        DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) *
t.prixJour as Montant2
        (
                SELECT

sum(DATEDIFF(day,lf.depart,ISNULL(lf.retour,GETDATE())) * t.prixJour)
as Montant2
                FROM
                        Clients c
                        JOIN Fiches f ON c.noCli = f.noCli
                        JOIN LignesFic lf ON lf.noFic = f.noFic
                        JOIN Articles a ON a.refart = lf.refart
                        JOIN GrilleTarifs gt ON gt.codeGam =
a.codeGam AND gt.codeCate = a.codeCate
                        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
                WHERE
                        f.noFic = 1002
        )
FROM
        Clients c
        JOIN Fiches f ON c.noCli = f.noCli
        JOIN LignesFic lf ON lf.noFic = f.noFic
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeGam = a.codeGam AND
gt.codeCate = a.codeCate
        JOIN Tarifs t ON t.codeTarif = gt.codeTarif
WHERE
        f.noFic = 1002;
```

Table Temporaire / Imbriquée (?) + CONVERT

```sql
SELECT
  AVG(CONVERT(decimal, total)) as Moyenne
FROM
  (
    SELECT
      lf.noFic,
      COUNT(*) as total -- nb enregistrements par fiche
    FROM
      LignesFic lf
    GROUP BY
      lf.noFic
  ) tableTotal
```

Note:

- AVG(total) <- Pas bon, reourne un int
- AVG: retourne moy dans meme type que input (ici int<-int)

Table imbriquée 2

```
Select
        AVG(total) 'montant moyen d''une fiche de location'
FROM
(
SELECT
        lf.nofic,
        SUM((DATEDIFF(day, lf.depart, lf.retour)+1) * t.prixJour)
total
FROM
        LignesFic lf
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeCate = a.codeCate AND
gt.codeGam = a.codeGam
        JOIN Tarifs t ON gt.codeTarif = t.codeTarif
GROUP BY
        lf.noFic ) total
```

Select
        AVG(total) 'montant moyen d''une fiche de location'
FROM
(
SELECT
        lf.nofic,
        SUM((DATEDIFF(day, lf.depart, lf.retour)+1) * t.prixJour)
total
FROM
        LignesFic lf
        JOIN Articles a ON a.refart = lf.refart
        JOIN GrilleTarifs gt ON gt.codeCate = a.codeCate AND
gt.codeGam = a.codeGam
        JOIN Tarifs t ON gt.codeTarif = t.codeTarif
GROUP BY
        lf.noFic) total