S2.04
Livrables semaine 20

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Requêtes SQL-LID

a)

Ordre d'interrogation SQL (articles) :

```sql
SELECT numArticle, nomArticle
FROM Article
WHERE numArticle IN (
        SELECT numArticle
        FROM Article
        MINUS
        SELECT numArticle
        FROM Detail_Commande);
```

Résultat :

```
NUMARTICLE|NOMARTICLE|
----------+----------+
         7|YOONER    |
```

Ordre d'interrogation SQL (catégories) :

```sql
SELECT numCategorie, libelleCategorie
FROM Categorie
WHERE numCategorie IN (
        SELECT numCategorie
        FROM Article
        MINUS
        SELECT numCategorie
        FROM Detail_Commande DC, Article A
        WHERE A.numArticle = DC.numArticle);
```

Résultat :

```
NUMCATEGORIE|LIBELLECATEGORIE|
------------+----------------+
          13|Paret           |
```

b)

Ordre d'interrogation SQL (par mois) :

```sql
SELECT SUM(montantHT) AS total_montants_HT,
       SUM(montantTTC) AS total_montants_TTC,
       TO_CHAR(dateCommande, 'MONTH') AS mois
FROM Commande
GROUP BY TO_CHAR(dateCommande, 'MONTH');
```

Résultat :

```
TOTAL_MONTANTS_HT|TOTAL_MONTANTS_TTC|MOIS      |
-----------------+------------------+---------+
         132082.6|          140172.12|FÉVRIER  |
         148837.5|          165494.5|MARS      |
           96884|          111572.8|AVRIL     |
```

Ordre d'interrogation SQL (par semaine) :

```sql
SELECT SUM(montantHT) AS total_montants_HT,
       SUM(montantTTC) AS total_montants_TTC,
       TO_CHAR(dateCommande, 'WW') AS num_semaine
FROM Commande
GROUP BY TO_CHAR(dateCommande, 'WW');
```

Résultat :

```
TOTAL_MONTANTS_HT|TOTAL_MONTANTS_TTC|NUM_SEMAINE|
-----------------+------------------+-----------+
         132082.6|          140172.12|09         |
           96884|          111572.8|17         |
         148837.5|          165494.5|12         |
```

c)

Ordre d'interrogation SQL :

```sql
SELECT numClient, nomClient
FROM Client
WHERE numClient IN (
        SELECT numClient
        FROM Client
        MINUS
        SELECT numClient
        FROM Commande);
```

Résultat :

```
NUMCLIENT|NOMCLIENT           |
---------+--------------------+
        6|GO Sport Orange     |
        7|GO Sport Perpignan  |
       14|SPORT 2000 Bich     |
       15|Foot Locker Rome    |
       18|The North Face Reggio|
       19|Nike Town           |
       20|Lillywhites         |
```

e)

Ordre d'interrogation SQL :

```sql
SELECT A.numArticle, A.nomArticle
FROM Article A, Categorie C, Variante_Article VA, Taille T
WHERE C.libelleCategorie = 'Chaussures'
AND A.numCategorie = C.numCategorie
AND VA.numArticle = A.numArticle
AND T.codeTaille = VA.codeTaille
AND T.libelleTaille LIKE 'pointure%'
GROUP BY A.numArticle, A.nomArticle
HAVING COUNT(T.codeTaille) = (
        SELECT COUNT(codeTaille)
        FROM Taille
        WHERE libelleTaille LIKE 'pointure%');
```

Résultat :

```
NUMARTICLE|NOMARTICLE|
----------+----------+
        8|GHOST  90 |
```

f)

Ordre d'interrogation SQL (commandes non-livrées) :

```sql
SELECT DISTINCT numCommande
FROM Detail_Commande
WHERE quantiteLivree = 0;
```

Résultat :

```
NUMCOMMANDE|
-----------+
          3|
```

Ordre d'interrogation SQL (commandes partiellement livrées) :

```sql
SELECT DISTINCT numCommande
FROM Detail_Commande
WHERE quantiteLivree < quantiteCommandee;
```

Résultat :

```
NUMCOMMANDE|
-----------+
          1|
         13|
          5|
         23|
          3|
```

Ordre d'interrogation SQL (commandes livrées avec des quantités trop importantes) :

```sql
SELECT DISTINCT numCommande
FROM Detail_Commande
WHERE quantiteLivree > quantiteCommandee;
```

Résultat :

```
NUMCOMMANDE|
-----------+
         14|
         24|
```

g)

Ordre d'interrogation SQL (clients en France) :

```sql
SELECT ROUND(SUM(CO.montantTTC)) AS Montant_ventes, E.libelleEtiquette
FROM Commande CO, Client C, Etiquette E
WHERE E.codeEtiquette = 'FR'
AND C.codeEtiquette = E.codeEtiquette
AND CO.numClient = C.numClient
GROUP BY E.libelleEtiquette, E.codeTypeTVA;
```

Résultat :

```
MONTANT_VENTES|LIBELLEETIQUETTE|
-------------+----------------+
       155507|Client Francais |
```

Ordre d'interrogation SQL (clients étrangers hors UE) :

```sql
SELECT ROUND(SUM(CO.montantTTC)) AS Montant_ventes, E.libelleEtiquette
FROM Commande CO, Client C, Etiquette E
WHERE E.codeEtiquette = 'GB'
AND C.codeEtiquette = E.codeEtiquette
AND CO.numClient = C.numClient
GROUP BY E.libelleEtiquette, E.codeTypeTVA
UNION
SELECT ROUND(SUM(CO.montantTTC)) AS Montant_ventes, E.libelleEtiquette
FROM Commande CO, Client C, Etiquette E
WHERE E.codeEtiquette = 'CH'
AND C.codeEtiquette = E.codeEtiquette
AND CO.numClient = C.numClient
GROUP BY E.libelleEtiquette, E.codeTypeTVA;
```

Résultat :

```
MONTANT_VENTES|LIBELLEETIQUETTE|
-------------+----------------+
        79305|Client Suisse   |
```

Ordre d'interrogation SQL (clients étrangers dans UE) :

```sql
SELECT ROUND(SUM(CO.montantTTC)) AS Montant_ventes, E.libelleEtiquette
FROM Commande CO, Client C, Etiquette E
WHERE E.codeEtiquette <> 'CH' AND E.codeEtiquette <> 'GB'
AND C.codeEtiquette = E.codeEtiquette
AND C.adrPaysClient <> 'France'
AND CO.numClient = C.numClient
GROUP BY E.libelleEtiquette, E.codeTypeTVA;
```

Résultat :

```
MONTANT_VENTES|LIBELLEETIQUETTE |
--------------+-----------------+
        112728|Client Italien   |
         69700|Client Autrichien|
```

h)

Ordre d'interrogation SQL :

```
SELECT A.numArticle, A.nomArticle
FROM Article A, Detail_Commande DC
WHERE A.numArticle = DC.numArticle
GROUP BY A.numArticle, A.nomArticle
HAVING COUNT(DC.numArticle) >= ALL (
        SELECT COUNT(numArticle)
        FROM Detail_Commande
        GROUP BY numArticle);
```

Résultat :

```
NUMARTICLE|NOMARTICLE   |
----------+------------+
        25|AFFINITY AIR|
```

i)

Ordre d'interrogation SQL :

```
SELECT A.numArticle, A.nomArticle
FROM Article A, Detail_Commande DC
WHERE A.numArticle = DC.numArticle
GROUP BY A.numArticle, A.nomArticle
HAVING SUM(DC.quantiteCommandee) >= ALL (
        SELECT SUM(quantiteCommandee)
        FROM Detail_Commande
        GROUP BY numArticle);
```

Résultat :

```
NUMARTICLE|NOMARTICLE   |
----------+------------+
        25|AFFINITY AIR|
```

j)

Ordre d'interrogation SQL :
```sql
SELECT ROUND(SUM(CO.montantTTC)) AS Chiffres_affaires, C.numClient,
C.nomClient
FROM Client C, Commande CO
WHERE C.numClient = CO.numClient
GROUP BY C.numClient, C.nomClient
ORDER BY Chiffre_affaire DESC;
```

Résultat :
```
CHIFFRES_AFFAIRES|NUMCLIENT|NOMCLIENT                             |
-----------------+---------+--------------------------------------+
            63188|       17|The North Face Pavia                  |
            51525|        1|GO Sport Agen                         |
            49540|       16|Foot Locker Firenze                   |
            37775|       12|SPORT 2000 Natter Talstation Bergbahnen|
            35575|        3|GO Sport Nantes                       |
            34001|        2|GO Sport Albi                         |
            33540|        9|OCHSNER Sport Bull                    |
            31925|       13|Olympiaplatz 2 EKZ Stadion Center     |
            18981|       11|OCHSNER Sport Stans                   |
            17712|        4|GO Sport Aulnay                       |
            16694|        5|GO Sport Paris 12                     |
            14184|        8|OCHSNER Sport Neuchatel               |
            12600|       10|OCHSNER Sport Luzern                  |
```