TP 3 :

PUBS :

R1 : (0 row(s) affected)

SELECT t.title\_id, t.title, t.type

FROM titles t WHERE NOT EXISTS(SELECT title\_id FROM sales);



R2 : (0 row(s) affected)

SELECT a.au\_id, a.au\_lname, a.au\_fname

FROM titleauthor ta JOIN authors a ON ta.au\_id = a.au\_id

WHERE NOT EXISTS(SELECT title\_id FROM sales)



R3 : (25 row(s) affected)

SELECT a.au\_id, a.au\_fname, a.au\_lname

FROM authors a JOIN titleauthor ta ON a.au\_id = ta.au\_id

JOIN titles t ON ta.title\_id = t.title\_id

JOIN publishers p ON t.pub\_id = p.pub\_id

WHERE p.country = 'USA'



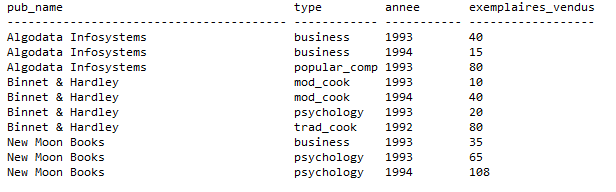
R4 : (10 row(s) affected)

SELECT pub\_name, type, YEAR(ord\_date) as annee, sum(qty) as exemplaires\_vendus

FROM titles t JOIN sales s ON t.title\_id = s.title\_id

JOIN publishers p ON t.pub\_id = p.pub\_id

GROUP BY pub\_name, type, YEAR(ord\_date)



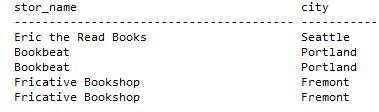
R5 : (5 row(s) affected)

SELECT s.stor\_name, s.city

FROM stores s JOIN sales sa ON s.stor\_id = sa.stor\_id

JOIN titles t ON sa.title\_id = t.title\_id

WHERE t.type = 'business'



R6 : (17 row(s) affected)

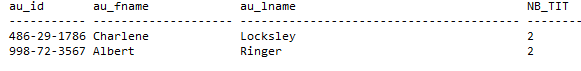
SELECT p.city, p.country, p.pub\_name, s.stor\_name, t.type, YEAR(sa.ord\_date) AS annee, SUM (price \* qty) AS CA

FROM stores s JOIN sales sa ON s.stor\_id = sa.stor\_id

JOIN titles t ON sa.title\_id = t.title\_id

JOIN publishers p ON t.pub\_id = p.pub\_id

GROUP BY p.city, p.country, p.pub\_name, s.stor\_name, t.type, YEAR(sa.ord\_date)



R7 : (2 row(s) affected)

SELECT a.au\_id, a.au\_fname, a.au\_lname, COUNT(DISTINCT t.title\_id) as NB\_TIT

FROM authors a JOIN titleauthor ta ON a.au\_id = ta.au\_id

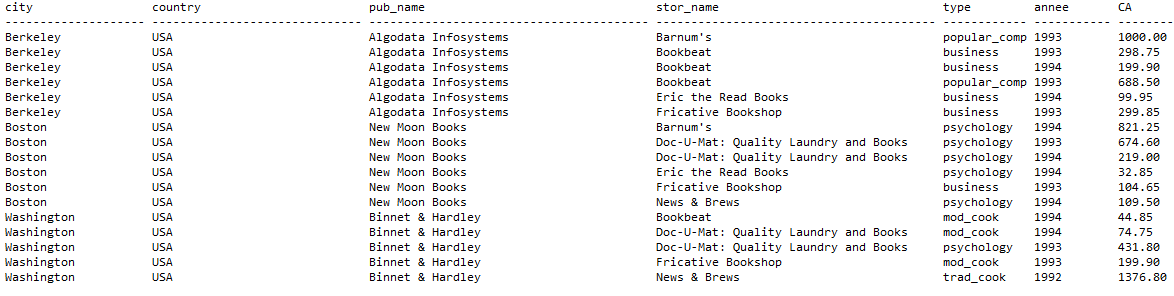
JOIN titles t ON t.title\_id = ta.title\_id

WHERE ta.au\_ord = 1

GROUP BY

a.au\_id, a.au\_fname, a.au\_lname

HAVING COUNT(DISTINCT t.title\_id)>=2



R8 : (43 row(s) affected)

SELECT pub\_name, job\_desc, COUNT(e.emp\_id) AS NB\_EMP

FROM jobs j JOIN employee e ON j.job\_id = e.job\_id

JOIN publishers p ON e.pub\_id = p.pub\_id

GROUP BY pub\_name, job\_desc



R9 : (4 row(s) affected)

SELECT pubName, annee, SUM( CASE WHEN titleID IS NULL THEN 0 ELSE 1 END) AS nombre\_livres\_vendus, SUM(CASE WHEN titleID IS NULL THEN 1 ELSE 0 END) AS nombre\_livres\_non\_vendus

FROM

(SELECT t.title\_id AS titleID,

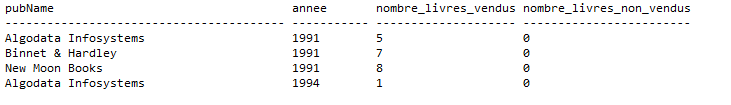
p.pub\_name AS pubName, YEAR(t.pubdate) as annee

FROM

publishers p JOIN titles t ON p.pub\_id = t.pub\_id

RIGHT JOIN sales s on s.title\_id = t.title\_id) as T

GROUP BY pubName, annee



R10 : (20 row(s) affected)

SELECT a.au\_fname, a.au\_lname,

YEAR(t.pubdate) as ANNEE ,

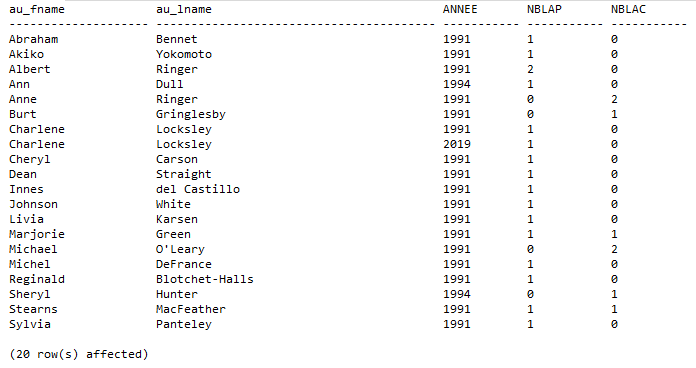
SUM (CASE WHEN au\_ord = 1 THEN 1 ELSE 0 END) AS NBLAP,

SUM(CASE WHEN au\_ord !=1 THEN 1 ELSE 0 END ) AS NBLAC

FROM authors a JOIN titleauthor ta on a.au\_id = ta.au\_id

JOIN titles t on t.title\_id = ta.title\_id

GROUP BY a.au\_fname, a.au\_lname, YEAR(t.pubdate)



NORTHWIND :

R1 : (806 row(s) affected)

SELECT c.CustomerID, c.ContactName, c.City, c.Country,

e.EmployeeID, e.FirstName, e.LastName, e.City as EmployeeCity, e.Country as EmployeeCountry,

DATENAME(m,o.OrderDate)+' '+CAST(DATEPART(yyyy,o.OrderDate) as varchar) as mois,

YEAR(o.OrderDate) as annee,

SUM(CASE WHEN o.ShippedDate IS NULL THEN 0 ELSE 1 END) AS NB\_CM\_LIVREES,

SUM(CASE WHEN o.ShippedDate IS NULL THEN 1 ELSE 0 END) AS NB\_CM\_NON\_LIVREES

FROM Customers c JOIN Orders o ON c.CustomerID = o.CustomerID

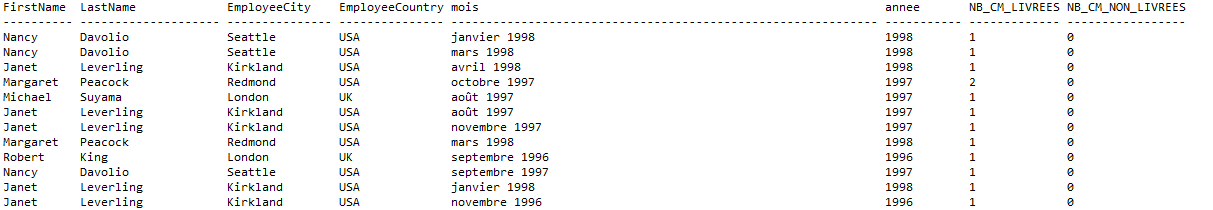
JOIN Employees e ON o.EmployeeID = e.EmployeeID

GROUP BY c.CustomerID, c.ContactName, c.City, c.Country,

e.EmployeeID, e.FirstName, e.LastName, e.City, e.Country,

datename(m,o.OrderDate)+' '+cast(datepart(yyyy,o.OrderDate) as varchar),

YEAR(o.OrderDate)



R2 : (67 row(s) affected)

SELECT COUNT(DISTINCT p.ProductID) as NB\_Produits ,

s.SupplierID, s.ContactName, s.City, s.Country,

c.CategoryID, c.CategoryName,

CASE

WHEN p.UnitPrice BETWEEN 1 AND 50 THEN 'P1'

WHEN p.UnitPrice BETWEEN 51 AND 100 THEN 'P2'

WHEN p.UnitPrice>100 THEN 'P3'

END AS Niveau\_Prix,

CASE

WHEN p.UnitsInStock = 0 THEN 'S0'

WHEN p.UnitsInStock BETWEEN 1 AND 30 THEN 'S1'

WHEN p.UnitsInStock >30 THEN 'S2'

END AS Niveau\_Stock

FROM Products p JOIN Suppliers s ON p.SupplierID = s.SupplierID

JOIN Categories c ON p.CategoryID = c.CategoryID

GROUP BY s.SupplierID, s.ContactName, s.City, s.Country,

c.CategoryID, c.CategoryName,

(CASE

WHEN p.UnitPrice BETWEEN 1 AND 50 THEN 'P1'

WHEN p.UnitPrice BETWEEN 51 AND 100 THEN 'P2'

WHEN p.UnitPrice>100 THEN 'P3'

END),

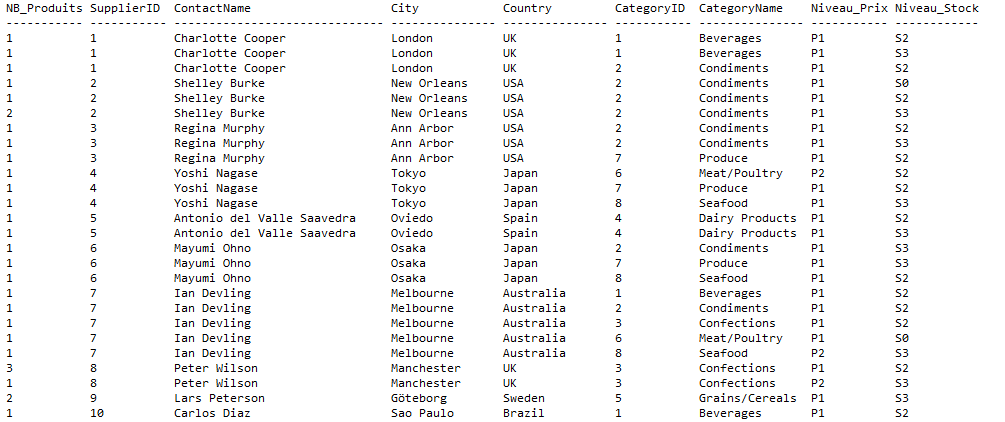
CASE

WHEN p.UnitsInStock = 0 THEN 'S0'

WHEN p.UnitsInStock BETWEEN 1 AND 30 THEN 'S1'

WHEN p.UnitsInStock >30 THEN 'S2'

END



R3 : (79 row(s) affected)

SELECT City, Country,

CASE

WHEN CA BETWEEN 100 AND 10000 THEN 'Low'

WHEN CA BETWEEN 10001 AND 80000 THEN 'Medium'

WHEN CA > 80000 THEN 'High'

END AS SalesLevel,

CASE

WHEN NB\_COMMANDES BETWEEN 1 AND 10 THEN 'Low'

WHEN NB\_COMMANDES BETWEEN 11 AND 20 THEN 'Medium'

WHEN NB\_COMMANDES > 20 THEN 'High'

END AS OrderLevel,

COUNT(CustomerID) as NB\_CLIENTS

FROM

(SELECT C.CustomerID, C.City, C.Country,

Sum(OD.UnitPrice \* OD.Quantity -(OD.UnitPrice \* OD.Quantity \* OD.Discount)) AS CA,

COUNT(OD.OrderID) AS NB\_COMMANDES

FROM

Customers C JOIN Orders O ON C.CustomerID = O.CustomerID

JOIN [Order Details] OD ON O.OrderID = OD.OrderID

GROUP BY C.CustomerID, C.City, C.Country) AS T1

GROUP BY City, Country,

CASE

WHEN CA BETWEEN 100 AND 10000 THEN 'Low'

WHEN CA BETWEEN 10001 AND 80000 THEN 'Medium'

WHEN CA > 80000 THEN 'High'

END,

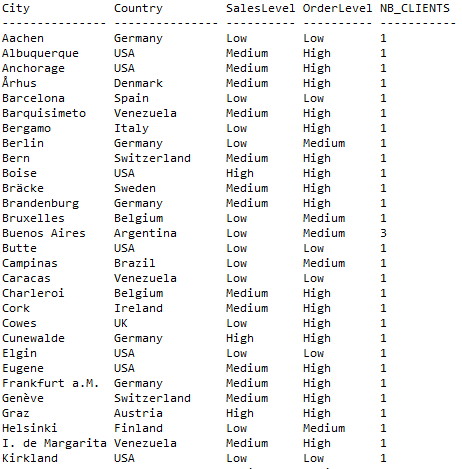
CASE

WHEN NB\_COMMANDES BETWEEN 1 AND 10 THEN 'Low'

WHEN NB\_COMMANDES BETWEEN 11 AND 20 THEN 'Medium'

WHEN NB\_COMMANDES > 20 THEN 'High'

END



R4 : (2123 row(s) affected)

SELECT DATENAME(m,O.OrderDate) as Mois, YEAR(O.OrderDate) as Annee,

C.CustomerID, C.ContactName, C.City, C.Country,

P.ProductID,P.ProductName,

Ca.CategoryID, Ca.CategoryName,

SUM(CASE WHEN O.ShippedDate IS NULL THEN 0 ELSE OD.UnitPrice \* OD.Quantity -(OD.UnitPrice \* OD.Quantity \* OD.Discount) END) AS CA\_Realise,

SUM(OD.UnitPrice \* OD.Quantity -(OD.UnitPrice \* OD.Quantity \* OD.Discount)) AS CA\_Commande

FROM

Customers C JOIN Orders O ON C.CustomerID = O.CustomerID

JOIN [Order Details] OD ON O.OrderID = OD.OrderID

JOIN Products P ON OD.ProductID = P.ProductID

JOIN Categories Ca ON P.CategoryID = Ca.CategoryID

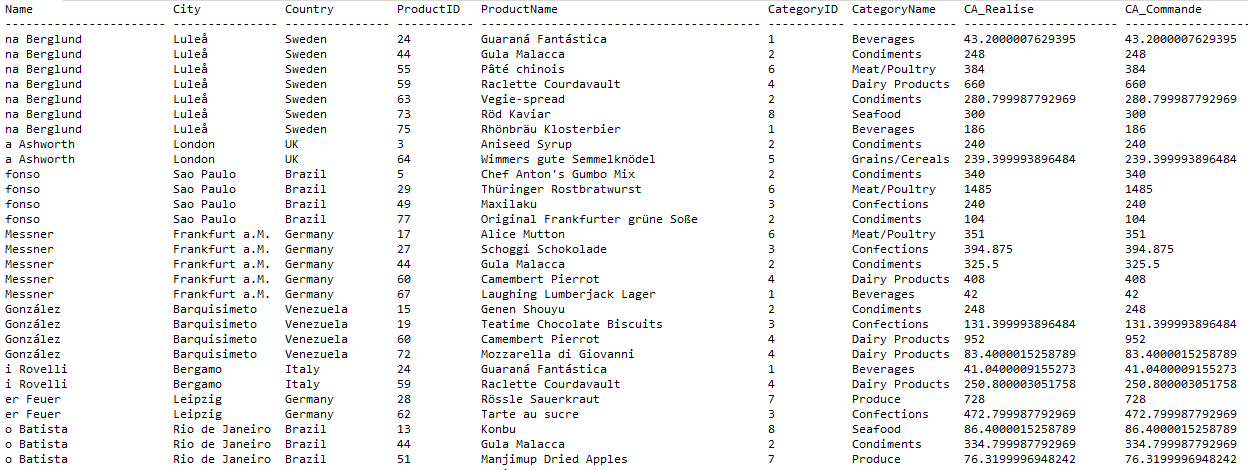
GROUP BY

DATENAME(m,O.OrderDate),YEAR(O.OrderDate),

C.CustomerID, C.ContactName, C.City, C.Country,

P.ProductID,P.ProductName,

Ca.CategoryID, Ca.CategoryName



R5 : (890 row(s) affected)

SELECT SUM(OD.Quantity \* OD.UnitPrice \* OD.Discount) AS Valeur\_Remise,

DATENAME(m,O.OrderDate) AS Mois, YEAR(O.OrderDate) AS Annee,

C.CustomerID, C.ContactName, C.City, C.Country,

OD.Discount

FROM

Customers C JOIN Orders O ON C.CustomerID = O.CustomerID

JOIN [Order Details] OD ON O.OrderID = OD.OrderID

GROUP BY

DATENAME(m,O.OrderDate), YEAR(O.OrderDate),

C.CustomerID, C.ContactName, C.City, C.Country,

OD.Discount

