Requetes SQL projet Toys and Models

Ventes

```
SELECT concat(Year,' ',CASE WHEN Month <10 THEN CONCAT(0,Month)

ELSE Month END ) AS Date,productline, Total

FROM (

SELECT YEAR(orderDate) AS Year,MONTH(orderDate) AS Month,productLine, SUM(quantityOrdered) AS Total

FROM products

JOIN orderdetails

ON products.productCode = orderdetails.productCode

JOIN orders

ON orderdetails.orderNumber = orders.orderNumber

GROUP BY productLine,Year,Month

ORDER BY Year, Month

) AS Try
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SELECT productLine,
((SUM(CASE when year(orderDate)=2023 and month(orderDate)=1 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=1 then quantityOrdered END))
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=1 then quantityOrdered END)) as JAN 22 23,
  ((SUM(CASE when year(orderDate)=2023 and month(orderDate)=2 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=2 then quantityOrdered END) )
/ SUM/CASE when vear(orderDate)=2022 and month(orderDate)=2 then quantityOrdered END)) as FEV 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=3 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=3 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=3 then quantityOrdered END)) as MAR 22 23,
  ((SUM(CASE when year(orderDate)=2023 and month(orderDate)=4 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=4 then quantityOrdered END))
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=4 then quantityOrdered END)) as AVR 22 23,
 ((SUM(CASE when year(orderDate)=2023 and month(orderDate)=5 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=5 then quantityOrdered END))
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=5 then quantityOrdered END)) as MAI 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=6 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=6 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=6 then quantityOrdered END)) as JUIN 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=7 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=7 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=7 then quantityOrdered END)) as JUIL 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=8 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=8 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=8 then quantityOrdered END)) as AOU 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=9 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=9 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=9 then quantityOrdered END)) as SEPT 22 23,
 ((SUM(CASE when year(orderDate)=2023 and month(orderDate)=10 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=10 then quantityOrdered END))
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=10 then quantityOrdered END)) as OCT 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=11 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=11 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=11 then quantityOrdered END)) as NOV 22 23,
  ( (SUM(CASE when year(orderDate)=2023 and month(orderDate)=12 then quantityOrdered END) - SUM(CASE when year(orderDate)=2022 and month(orderDate)=12 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2022 and month(orderDate)=12 then quantityOrdered END)) as DEC 22 23,
  ( (SUM(CASE when year(orderDate)=2024 and month(orderDate)=1 then quantityOrdered END) - SUM(CASE when year(orderDate)=2023 and month(orderDate)=1 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2023 and month(orderDate)=1 then quantityOrdered END)) as JAN 23 24,
( (SUM(CASE when year(orderDate)=2024 and month(orderDate)=2 then quantityOrdered END)
- SUM(CASE when year(orderDate)=2023 and month(orderDate)=2 then quantityOrdered END) )
/ SUM(CASE when year(orderDate)=2023 and month(orderDate)=2 then quantityOrdered END)) as FEV 23 24
FROM products
JOIN orderdetails
ON products.productCode = orderdetails.productCode
JOIN orders
ON orderdetails.orderNumber = orders.orderNumber
GROUP BY productLine
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Logistique

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SELECT p.productName, SUM(od.quantityOrdered) AS totalOrdered, p.quantityInStock,
SUM(CASE WHEN YEAR(orderDate)=2022 THEN quantityOrdered*priceEach END) AS CA_2022,
SUM(CASE WHEN YEAR(orderDate)=2023 THEN quantityOrdered*priceEach END) AS CA_2023,
SUM(CASE WHEN YEAR(orderDate)=2024 THEN quantityOrdered*priceEach END) AS CA_2024
FROM products p
JOIN orderdetails od
ON p.productCode = od.productCode
JOIN orders o
ON od.orderNumber=o.orderNumber
GROUP BY p.productName, p.quantityInStock
ORDER BY totalOrdered
DESC LIMIT 5;
```

Finances

```
SELECT country,
SUM(CASE WHEN YEAR(orderDate)=2024 AND MONTH(orderDate)=1 THEN quantityOrdered*priceEach END) AS Janvier_2024,
SUM(CASE WHEN YEAR(orderDate)=2024 AND MONTH(orderDate)=2 THEN quantityOrdered*priceEach END) AS Fevrier 2024
FROM orderdetails
JOIN orders o
ON orderdetails.orderNumber=o.orderNumber
JOIN customers c
ON c.customerNumber=o.customerNumber
GROUP BY country
;
select productName, country, sum(o.quantityOrdered) as nombre_produit, sum(o.quantityOrdered*priceEach) as Chiffre_A_P, Month(orderDate) as Mois, YEAR(orderDate) as Année
from orderdetails o
join products on o.productCode=products.productCode
join orders on o.orderNumber=orders.orderNumber
join customers on orders.customerNumber=customers.customerNumber
WHERE orderDate BETWEEN '2024-01-01' AND '2024-02-20'
GROUP BY productName, Month(orderDate), YEAR(orderDate), country, priceEach
ORDER BY sum(o.quantityOrdered*priceEach) desc
;
```

```
SELECT o.orderNumber
FROM orderdetails o
LEFT JOIN orders
ON o.orderNumber=orders.orderNumber
LEFT JOIN customers c
ON orders.customerNumber=c.customerNumber
LEFT JOIN payments p
ON c.customerNumber=p.customerNumber
WHERE paymentDate IS NULL
;
SELECT o.orderNumber,productName,status,comments,amount,paymentDate
FROM products
LEFT JOIN orderdetails o
ON products.productCode=o.productCode
LEFT JOIN orders
ON o.orderNumber=orders.orderNumber
LEFT JOIN customers c
ON orders.customerNumber=c.customerNumber
LEFT JOIN payments p
ON c.customerNumber=p.customerNumber
WHERE status='On Hold'
;
```

Ressources humaines

```
⇒ SELECT Date, Name_employee, CA, Ranking FROM (
                                       SELECT Date,
                                       Name employee,
                                       RANK()OVER(PARTITION BY Date ORDER BY CA DESC) AS Ranking, CA
                                       FROM(
                                               SELECT CONCAT(YEAR(orderDate), ' ', CASE WHEN MONTH(orderDate) <10 THEN CONCAT(0, MONTH(orderDate))
                                                                            ELSE MONTH(orderDate) END
                                                           ) AS Date,
                                                       CONCAT(lastName, ' ', firstname) AS Name_employee,
                                                       SUM(quantityOrdered*priceEach) AS CA
                                               FROM employees e
                                               JOIN customers c
                                               ON e.employeeNumber=c.salesRepEmployeeNumber
                                               JOIN orders o
                                               ON c.customerNumber=o.customerNumber
                                               JOIN orderdetails
                                               ON orderdetails.orderNumber=o.orderNumber
                                               GROUP BY Date, Name_employee
                                               ORDER BY Date, CA DESC
                                               ) AS x
                                       )AS y
  WHERE Ranking <3
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;

```
SELECT Year, Month, Name_employee, CA

⊖ FROM (
          SELECT YEAR(orderDate) AS Year,
          MONTH(orderDate) AS Month,
          CONCAT(lastName, ' ', firstname) AS Name_employee,
          RANK()OVER(PARTITION BY YEAR(orderDate), MONTH(orderDate) ORDER BY SUM(quantityOrdered*priceEach) DESC) AS Ranking,
          SUM(quantityOrdered*priceEach) AS CA
          FROM employees e
          JOIN customers c
          ON e.employeeNumber=c.salesRepEmployeeNumber
          JOIN orders o
          ON c.customerNumber=o.customerNumber
          JOIN orderdetails
          ON orderdetails.orderNumber=o.orderNumber
          GROUP BY Year, Month, Name_employee
          ORDER BY Year, Month, CA DESC
          ) as x
  WHERE Ranking <3;
```