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use classicmodels;

-- total sales based on each product line
select pl.productLine, sum(od.quantityOrdered * od.priceEach) from
productlines pl
left join
products p on pl.productLine = p.productLine
inner join
orderdetails od on p.productCode = od.productCode
group by pl.productLine;

-- count of orders for each product line

select pl.productLine, sum(od.quantityOrdered) from productlines pl
left join
products p on pl.productLine = p.productLine
inner join
orderdetails od on p.productCode = od.productCode
group by pl.productLine;

-- count of orders
select pl.productLine, count(distinct o.orderNumber) from productlines pl
left join
products p on pl.productLine = p.productLine
inner join
orderdetails od on p.productCode = od.productCode
inner join orders o on o.orderNumber = od.orderNumber
group by pl.productLine;

-- Total sales by country
select c.country, sum(od.quantityOrdered*od.priceeach) as total_sales
from customers c
inner join
orders o on c.customernumber = o.customernumber
inner join
orderdetails od on od.orderNumber = o.orderNumber
group by c.country;

-- sales trends by year
select year(o.orderdate) as year, sum(quantityOrdered*priceeach)
from
orderdetails od
inner join
orders o on o.orderNumber = od.orderNumber
group by year(o.orderdate)
order by year;

-- sales trends by year and month
select year(o.orderdate) as year, month(o.orderdate) as month,
sum(quantityOrdered*priceeach)
from
orderdetails od
inner join
orders o on o.orderNumber = od.orderNumber
group by year(o.orderdate), month(o.orderdate)

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order by year, month;

-- top 10 selling products by quantity
select p.productcode, p.productname, sum(od.quantityordered) as
totalquantitiesold
from
products p
left join
orderdetails od on p.productcode = od.productcode
group by p.productcode, p.productname
order by totalquantitiesold desc limit 10;

-- top customers by sales
select c.customerName, SUM(od.priceEach * od.quantityOrdered) AS
TotalSales
from Customers c
inner join Orders o ON c.customerNumber = o.customerNumber
inner join OrderDetails od ON o.orderNumber = od.orderNumber
group by c.customerName
order by TotalSales DESC
limit 10;

-- customer order frequency
select customerName, COUNT(Orders.orderNumber) as OrderCount
from Customers
join Orders on Customers.customerNumber = Orders.customerNumber
group by customerName
order by OrderCount desc
limit 10;

-- top 10 low inventory level products
select productCode, productName, quantityinstock
from Products
order by quantityinstock limit 10;

-- order count by status

select status, COUNT(orderNumber) AS OrderCount
FROM Orders
group by status
order by OrderCount desc;

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