GROUP BY Clause Practice Problems

- 1) In the Person. Person table, how many people are associated with each PersonType?
- 2) Using only one query, find out how many products in Production. Product are the color "red" and how many are "black".
- 3) Using Sales.SalesOrderHeader, how many sales occurred in each territory between July 1, 2005 and December 31, 2006? Order the results by the sale count in descending order.
- 4) Expanding on the previous example, group the results not by the TerritoryID but by the name of the territory (found in the Sales.SalesTerritory table).
- 5) Using the Book, BookAuthor, Author and/or Publisher tables, identify how many books each author either wrote or co-authored.

GROUP BY Clause Practice Problem Solutions

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Question 1:
SELECT
       PersonType,
      COUNT(*) AS PersonCount
FROM Person.Person
GROUP BY PersonType
Question 2:
SELECT
       Color,
      COUNT(*) AS ProductCount
FROM Production.Product
WHERE Color IN ('Red', 'Black')
GROUP BY Color
Question 3:
SELECT
       TerritoryID,
       COUNT(*) AS SalesCount
FROM Sales.SalesOrderHeader
WHERE OrderDate BETWEEN '7/1/2005' AND '12/31/2006'
GROUP BY TerritoryID
Question 4:
SELECT
       ST.Name AS TerritoryName,
      COUNT(*) AS SalesCount
FROM Sales.SalesOrderHeader SOH
LEFT OUTER JOIN Sales.SalesTerritory ST
ON ST.TerritoryID = SOH.TerritoryID
WHERE OrderDate BETWEEN '7/1/2005' AND '12/31/2006'
GROUP BY ST.Name
Question 5:
SELECT
       A. AuthorName,
      COUNT(*) AS BookCount
FROM BookAuthor BA
INNER JOIN Author A
ON A.AuthorID = BA.AuthorID
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GROUP BY A.AuthorName