

LEFT OUTER JOIN and RIGHT OUTER JOIN Practice Problems

- 1) Return the BusinessEntityID and SalesYTD column from Sales.SalesPerson. Join this table to the Sales.SalesTerritory table in such a way that every in Sales.SalesPerson will be returned regardless of whether or not they are assigned to a territory. Also, return the Name column from Sales.SalesTerritory. Give this column the column alias "Territory Name".
- 2) Using the previous example as your foundation, join to the Person.Person table to return the sales person's first name and last name. Now, only include those rows where the territory's name is either "Northeast" or "Central"
- 3) Return the Name and ListPrice columns from Production.Product. For each product, regardless of whether or not it has an assigned ProductSubcategoryID, return the Name column from Product.ProductSubcategory for each product. Then, return the Name column from Production.ProductCategory for each row. Give the Name column from Production.Product the alias "ProductName", the Name column from Production.ProductSubcategory the alias "ProductSubcategoryName", and the Name column from Production.ProductCategory the alias "ProductCategoryName". Order the results by the "ProductCategoryName" in descending order and then the "ProductSubcategoryName" in ascending order.

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Question 1:

```
SELECT
    SP.BusinessEntityID,
    SP.SalesYTD,
    ST.Name AS [Territory Name]
FROM Sales.SalesPerson SP
LEFT OUTER JOIN Sales.SalesTerritory ST
ON ST.TerritoryID = SP.TerritoryID
```

Question 2:

```
SELECT
    P.FirstName,
    P.LastName,
    SP.BusinessEntityID,
    SP.SalesYTD,
    ST.Name AS [Territory Name]
FROM Sales.SalesPerson SP
LEFT OUTER JOIN Sales.SalesTerritory ST
ON ST.TerritoryID = SP.TerritoryID
INNER JOIN Person.Person P
ON P.BusinessEntityID = SP.BusinessEntityID
WHERE ST.Name IN ('Northeast', 'Central')
```

Question 3:

```
SELECT
    P.Name,
    P.ListPrice,
    SC.Name AS ProductSubcategoryName,
    C.Name AS ProductCategoryName
FROM Production.Product P
LEFT OUTER JOIN Production.ProductSubcategory SC
ON SC.ProductSubcategoryID = P.ProductSubcategoryID
LEFT OUTER JOIN Production.ProductCategory C
ON C.ProductCategoryID = SC.ProductCategoryID
ORDER BY ProductCategoryName DESC, ProductSubcategoryName ASC
```