Use the AdventureWorks2019 database for this assignment. It follows the concepts from section 1.3 in the *Querying Data…* textbook.

1. Create a query that lists each territory name and the average processing times (in days) for that territory. The data needed are in the Sales.SalesOrderHeader and Sales.SalesTerritory tables. To calculate order processing times, you will need to look at the ShipDate and OrderDate columns in the Sales.SalesOrderHeader table. The query’s output should like as follows:

Table

Description automatically generated with medium confidence

Additional resources: <https://docs.microsoft.com/en-us/sql/t-sql/functions/cast-and-convert-transact-sql?view=sql-server-ver15>

1. Construct a query that will list monthly sales for each year. Use the Sales.SalesOrderHeader table for this problem. To complete this task, you will only need to look at the OrderDate and SubTotal columns. The output should be sorted by year and by month. You are to use both the DATEPART and DATENAME functions. You will also need to use the FORMAT using the ‘C’ format to display the sales data as currency. A sample output of the query is presented below.

Table, calendar

Description automatically generated with medium confidence

Additional resources:

<https://docs.microsoft.com/en-us/sql/t-sql/functions/datename-transact-sql?view=sql-server-ver15>

<https://docs.microsoft.com/en-us/sql/t-sql/functions/datepart-transact-sql?view=sql-server-ver15>

select datepart(year, OrderDate) as [Year],

datename(month, OrderDate) as [Month],

format(sum(SubTotal), ‘C’) as [Monthly Sales]

from Sales.SalesOrderHeader

Group by datepart(Year, OrderDate), datepart(month, OrderDate), datename(month, OrderDate)

Order by datepart(Year, OrderDate), datepart(month, OrderDate);

1. You have decided that you would also like to produce a report with quarterly sales. Modify the second query to list quarterly instead of monthly sales. Use the CASE expression for this problem. Sample output:

Table

Description automatically generated

Additional resources: <https://docs.microsoft.com/en-us/sql/t-sql/language-elements/case-transact-sql?view=sql-server-ver15> 