**Assignment-2 Solutions with Output**

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Exercise 4

Create a function that takes as inputs a SalesOrderID, a Currency Code, and a date, and returns a table of all the SalesOrderDetail rows for that Sales Order including Quantity, ProductID, UnitPrice, and the unit price converted to the target currency based on the end of day rate for the date provided. Exchange rates can be found in the Sales.CurrencyRate table. (Use AdventureWorks)

Answer:

GO

CREATE FUNCTION Sales.func(@SalesOrderID int, @CurrencyCode nchar(3) ,@CurrencyRateDate datetime)

RETURNS TABLE

AS

RETURN

WITH Products

AS (

SELECT \* FROM Sales.SalesOrderDetail AS sod

WHERE sod.SalesOrderID = @SalesOrderID

)

SELECT p.ProductID, p.OrderQty, p.UnitPrice, p.UnitPrice\*scr.EndOfDayRate AS 'Converted Price'

FROM Products AS p, Sales.CurrencyRate AS scr

WHERE scr.ToCurrencyCode = @CurrencyCode

AND scr.CurrencyRateDate = @CurrencyRateDate

GO

SELECT \* FROM Sales.func(43661,'CAD','2005-07-01 00:00:00.000');

Output:

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