Suppose you're working with data of products for ACME Corporation. The data is shown in the excel file "ioe373-hw6." You have the following task to organize the information: • Remove any empty rows in the raw data (sheet "Data") • Automate the process of creating a summary of Revenue, Cost of Goods Sold (COGS) and Profit (Revenue – COGS) by region and product. Regions should go down the side (rows), products across the top (columns). The data fields should have a row orientation. o Please check the sample code for creating a pivot table (ioe373-lec12- example6.xlsm) • Create the pivot table in a new sheet. Name the new sheet "PivotWorkSheet" Make sure that you remove any previous sheets containing a pivot table. • Use one single button on the worksheet and/or a userform to trigger first the subroutine to remove the empty rows and then the subroutine to create the pivot table. Deliverables: 1) Copy your VBA code and paste to this word file, submit it on Canvas. 2) Save your VBA code and worksheet with the values as a Macro-Enabled worksheet. Submit it along with your word file on Canvas.

VBA CODE

```
Option Explicit

Sub DeleteEmptyRows()

Dim LastRow As Long

Dim r As Long

Dim Counter As Long

Dim ans As Variant

Application.ScreenUpdating = False

LastRow = ActiveSheet.UsedRange.Rows.Count + _

ActiveSheet.UsedRange.Rows(1).Row - 1

For r = LastRow To 1 Step -1

If Application.WorksheetFunction.CountA(Rows(r)) = 0 Then Rows(r).Delete

Counter = Counter + 1
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End If
  Next r
  Application.ScreenUpdating = True
End Sub
Sub CreatePivotTable()
  Dim PTcache As PivotCache
  Dim pt As PivotTable
  Application.ScreenUpdating = False
' Delete PivotSheet if it exists
  On Error Resume Next
  Application.DisplayAlerts = False
  Sheets("PivotSheet").Delete
' Create a Pivot Cache
  Set PTcache = ActiveWorkbook.PivotCaches.Create( _
   SourceType:=xlDatabase, _
   SourceData:=Range("A1").CurrentRegion.Address)
' Add new worksheet
  Worksheets.Add
  ActiveSheet.Name = "PivotWorkSheet"
  ActiveWindow.DisplayGridlines = False
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' Create the Pivot Table from the Cache
  Set pt = ActiveSheet.PivotTables.Add(__
   PivotCache:=PTcache, _
   TableDestination:=Range("A1"), _
   TableName:="Summary")
  With pt
    Add fields
    .PivotFields("Region").Orientation = xlRowField
    .PivotFields("Product").Orientation = xlColumnField
    .PivotFields("Revenue").Orientation = xlDataField
    .PivotFields("COGS").Orientation = xlDataField
    .DataPivotField.Orientation = xlColumnField
    Profit = Revenue - COGS
    .CalculatedFields.Add "Profit", "=Revenue-COGS"
    .PivotFields("Profit").Orientation = xlDataField
    Specify a number format
    .DataBodyRange.NumberFormat = "0,000"
    Apply a style
    .TableStyle2 = "PivotStyleMedium2"
    Hide Field Headers
    .DisplayFieldCaptions = False
    .PivotFields("Sum of Revenue").Caption = " Revenue"
    .PivotFields("Sum of COGS").Caption = " COGS"
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| .PivotFields("Sum of Profit").Caption = " Profit" |
|---|
| End With |
| Application.ScreenUpdating = True |
| End Sub |
| Sub ButtonDeleteRowsAndCreateTable() |
| DeleteEmptyRows |
| CreatePivotTable |
| End Sub |