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Dim xlBook As Excel.Workbook = CType(xlApp.Workbooks.Add, Excel.Workbook)
Dim xlSheet As Excel.Worksheet = CType(xlBook.Worksheets(1), Excel.Worksheet)
ExcelColumnHeadings(xlSheet)
Dim i As Short
For i = 0 To m_Civ.MapArea - 1
    ExcelAddRow(xlSheet, i)
Next
ExcelFormat(xlSheet, xlApp)
ExcelSave(xlSheet, xlBook, xlApp)
End Sub

Private Sub ExcelProgressBarSetup()
    ' Set text in StatusBarPanel
    progress.Text = "Creating Excel Spreadsheet of Map Data..."
    ' Setup Progressbar information
    pbExcel.Minimum = 0
    pbExcel.Maximum = m_Civ.MapArea - 1
    pbExcel.Value = 0
    pbExcel.Step = 1
    pbExcel.Visible = True
    ' Make Excel Progress panel visible
    pnlExcel.Visible = True
    pnlExcel.Refresh()
End Sub

Private Sub ExcelColumnHeadings(ByRef xlSheet As Excel.Worksheet)
    xlSheet.Cells(1, 1) = "Width"
    xlSheet.Cells(1, 2) = "Height"
    xlSheet.Cells(1, 3) = "Address"
    xlSheet.Cells(1, 4) = "TT#"
    xlSheet.Cells(1, 5) = "TT Desc"
    xlSheet.Cells(1, 6) = "G+"
    xlSheet.Cells(1, 7) = "P+"
    xlSheet.Cells(1, 8) = "Riv"
    xlSheet.Cells(1, 9) = "Far"
    xlSheet.Cells(1, 10) = "Air"
    xlSheet.Cells(1, 11) = "Pol"
    xlSheet.Cells(1, 12) = "For"
    xlSheet.Cells(1, 13) = "Rai"
    xlSheet.Cells(1, 14) = "Roa"
    xlSheet.Cells(1, 15) = "Min"
    xlSheet.Cells(1, 16) = "Irr"
    xlSheet.Cells(1, 17) = "Cty"
    xlSheet.Cells(1, 18) = "Unt"
    xlSheet.Cells(1, 19) = "Cont#"
    xlSheet.Cells(1, 20) = "Owned Col"
    xlSheet.Cells(1, 21) = "Near"
    xlSheet.Cells(1, 22) = "Worked By"
    xlSheet.Cells(1, 23) = "City"
    xlSheet.Cells(1, 24) = "Units"
    xlSheet.Cells(1, 25) = "P"
    xlSheet.Cells(1, 26) = "O"
    xlSheet.Cells(1, 27) = "C"
    xlSheet.Cells(1, 28) = "Y"
    xlSheet.Cells(1, 29) = "B"
    xlSheet.Cells(1, 30) = "G"
    xlSheet.Cells(1, 31) = "W"
    xlSheet.Cells(1, 32) = "R"
End Sub

Private Sub ExcelAddRow(ByRef xlSheet As Excel.Worksheet, ByVal i As Short)
    'Update StatusBarPanel with current row statistics.
    progress.Text = "Creating Excel Spreadsheet of Map Data..[" & (i + 1).ToString & " of " & m_Civ.MapArea.ToString & "]...."
    ' Add a row of data..
    Dim mc As MapCell = m_Civ.GetMapCell(i)
    xlSheet.Cells(i + 2, 1) = mc.Width
    xlSheet.Cells(i + 2, 2) = mc.Height
    xlSheet.Cells(i + 2, 3) = m_Civ.GetMapDataBlock2BaseAddress + i
    xlSheet.Cells(i + 2, 5) = mc.TerrainBaseType.ToString
    If mc.River = True Then
        xlSheet.Cells(i + 2, 8) = 1
        xlSheet.Cells(i + 2, 4) = mc.TerrainBaseType + 128
    End Sub
End Sub

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