

LAMPIRAN

Kode Visual Basic For Applications (VBA) Jurnal Umum

```
Option Explicit

'===== Helper untuk angka Indonesia =====
Private Function ParseNumberIndo(ByVal v As Variant) As Double
Dim s As String
s = Trim(CStr(v))
If s = "" Then ParseNumberIndo = 0#: Exit Function
s = Replace(s, "Rp.", "")
s = Replace(s, "IDR", "")
If Right(s, 3) = "." Then s = "-" & Left(s, Len(s) - 1)
If InStr(s, "-") > 0 And InStr(s, ".") > 0 Then
s = Replace(s, "-", "")
ElseIf InStr(s, ".") = 0 Then
s = Replace(s, ".", "")
End If
ParseNumberIndo = CDbl(s)
On Error GoTo 0
End Function

'===== Update Jurnal =====
Public Sub UpdateJurnal()
Const INPUT_SHEET As String = "INPUT TRANSAKSI"
Const JOURNAL_SHEET As String = "JURNAL UMUM"
Const LK_SHEET As String = "LaporanKeuangan" ' opsional untuk periode

Dim wsIn As Worksheet, wsJR As Worksheet, wsLK As Worksheet
Dim LastRow As Long, r As Long, outRow As Long
Dim vCatat As String, vDebit As String, vKredit As String
Dim vTgl As Variant, vNaras1 As String, vNom As Double
Dim tStart As Variant, tEnd As Variant
Dim lo As ListObject, rng As Range

On Error GoTo ErrHandler
Set wsIn = ThisWorkbook.Worksheets(INPUT_SHEET)
Set wsJR = ThisWorkbook.Worksheets(JOURNAL_SHEET)
Set wsLK = ThisWorkbook.Worksheets(LK_SHEET)
On Error GoTo 0

' --- Periode (optional) ---
If Not wsLK Is Nothing Then
If IsDate(wsLK.Range("B2").Value) Then tStart = CDate(wsLK.Range("B2").Value)
If IsDate(wsLK.Range("C2").Value) Then tEnd = CDate(wsLK.Range("C2").Value)
End If

Application.ScreenUpdating = False
Application.Calculation = xlCalculationManual
Application.EnableEvents = False

' --- Header Jurnal ---
If wsJR.Cells(1, 1).Value <> "Tanggal" Then
wsJR.Range("A1:F1").Value = Array("Tanggal", "Naras1", "Akun Debit", "Nominal Debit", "Akun Kredit", "Nominal Kredit")
End If

' --- Lepas & hapus table lama bila ada ---
On Error Resume Next
For Each lo In wsJR.ListObjects
lo.Unlist
Next lo
On Error GoTo 0

' --- Bersihkan isi lama (kecuali header) ---
wsJR.Range("A2:F" & wsJR.Rows.Count).ClearContents

' --- Cari baris terakhir di Input (kolom A/G) ---
LastRow = wsIn.Cells(wsIn.Rows.Count, "A").End(xlUp).Row
If wsIn.Cells(wsIn.Rows.Count, "G").End(xlUp).Row > LastRow Then
LastRow = wsIn.Cells(wsIn.Rows.Count, "G").End(xlUp).Row
End If

outRow = 2

' --- Loop Input ---
For r = 2 To LastRow
vCatat = UCase(Trim(CStr(wsIn.Cells(r, "G").Value))) ' YA/TIDAK
If vCatat = "YA" Then
vTgl = wsIn.Cells(r, "A").Value
' filter tanggal jika periode ada
If (IsEmpty(tStart) Or (IsDate(vTgl) And vTgl >= tStart)) And _
(IsEmpty(tEnd) Or (IsDate(vTgl) And vTgl <= tEnd)) Then
vNaras1 = Trim(CStr(wsIn.Cells(r, "B").Value))
vDebit = Trim(CStr(wsIn.Cells(r, "D").Value))
vKredit = Trim(CStr(wsIn.Cells(r, "E").Value))
vNom = ParseNumberIndo(wsIn.Cells(r, "F").Value)

' Skip jika akun/nominal tidak valid
If vDebit = "" And vKredit = "" And vNom <> 0 Then
wsJR.Cells(outRow, "A").Value = vTgl
wsJR.Cells(outRow, "B").Value = vNaras1
wsJR.Cells(outRow, "C").Value = vDebit
wsJR.Cells(outRow, "D").Value = vNom
wsJR.Cells(outRow, "E").Value = vKredit
wsJR.Cells(outRow, "F").Value = vNom
outRow = outRow + 1
End If
End If
Next r

' --- Format & jadikan Table (sekali, tidak doble) ---
If outRow > 2 Then
Set rng = wsJR.Range("A1:F" & outRow - 1)
Set lo = wsJR.ListObjects.Add(xlSrcRange, rng, , xlYes)
lo.Name = "tblJurnal"
lo.TableStyle = "TableStyleMedium2"

' Sort by Tanggal (A) lalu Narasi (B)
With lo.Sort
.SortFields.Clear
.SortFields.Add key:=lo.ListColumns(1).DataBodyRange, SortOn:=xlSortOnValues, _
Order:=xlAscending, DataOption:=xlSortNormal
.SortFields.Add key:=lo.ListColumns(2).DataBodyRange, SortOn:=xlSortOnValues, _
Order:=xlAscending, DataOption:=xlSortNormal
.Header = xlYes
.Apply
End With
Else
wsJR.Range("A2:F2").ClearContents
End If

' --- Format angka & tanggal ---
With wsJR
.Columns("A").NumberFormat = "dd/mm/yyyy"
.Columns("D").NumberFormat = "#,##0"
.Columns("E").NumberFormat = "#,##0"
.Columns("A:F").AutoFit
End With

CleanExit:
Application.EnableEvents = True
Application.Calculation = xlCalculationAutomatic
Application.ScreenUpdating = True
Exit Sub

ErrHandler:
Application.EnableEvents = True
Application.Calculation = xlCalculationAutomatic
Application.ScreenUpdating = True
MsgBox "Terjadi error: " & Err.Description & vbCrLf & _
"cek nama sheet dan struktur kolom input (A:Tgl, B:Naras1, D:Debit, E:Kredit, F:Nominal, G:Catat)". _
vbExclamation, "UpdateJurnal"
End Sub
```

Kode Visual Basic For Applications Buku Besar

```

Option Explicit
'===== KONFIGURASI =====
Private Const SHEET_CDA As String = "CDA" 'AKode, B>Nama
Private Const SHEET_JURNAL As String = "JURNAL UMUM" 'A.Tgl,
B.Nar, C.AkunD, D.Deb, E.AkunK, F.kre
Private Const SHEET_BB As String = "BUKU BESAR" 'Output

Private Const FIRST_DATA_ROW As Long = 3

'Kotak tujuan Buku Besar
Private Const COL_TGL As Long = 1 'A
Private Const COL_NAR As Long = 2 'B
Private Const COL_DEB As Long = 3 'C
Private Const COL_KRE As Long = 4 'D
Private Const COL_SAL As Long = 5 'E

Private Const LIGHT_NUMBER_ORIMAL As Boolean = True

'==== WARNA (pakai variable agar RGB) legal ====
Private COLOR_ACC_HEADER As Long 'hitem: nama akun + "Kode
Akun"
Private COLOR_COL_HEADER As Long 'biru: header kolom
Private COLOR_TEXT_LIGHT As Long 'putih
Private COLOR_TEXT_DARK As Long 'hitem untuk detail
Private COLOR_GRID As Long 'border tipis
'=====
'===== ENTRY POINT =====
Public Sub BuildBukuBesar(AllAccounts, Styled)
Dim wsCDA As Worksheet, wsJ As Worksheet, wsBB As Worksheet
Dim lastCDA As Long, r As Long, rowOut As Long
Dim kode As String, nama As String
Dim items As Collection

InitColor

Set wsCDA = ThisWorkbook.Worksheets(SHEET_CDA)
Set wsJ = ThisWorkbook.Worksheets(SHEET_JURNAL)
Set wsBB = ThisWorkbook.Worksheets(SHEET_BB)

Application.ScreenUpdating = False
Application.EnableEvents = False
Application.Calculation = xlCalculationManual

'1) Bersihkan isi & styling lama
ClearDataAndStyling wsBB, FIRST_DATA_ROW, COL_TGL, COL_SAL

'2) Bangun ulang untuk semua akun CDA
rowOut = FIRST_DATA_ROW
lastCDA = wsCDA.Cells(wsCDA.Rows.Count, 1).End(xlUp).Row

For r = 2 To lastCDA
kode = Trim$(CStr(wsCDA.Cells(r, 1).Value))
nama = Trim$(CStr(wsCDA.Cells(r, 2).Value))
If Len(nama) = 0 Then GoTo NextAkun
' >>> cocokkan by NAMA atau KODE
Set items = CollectItems(wsJ, nama, kode)

'tulis blok (header + detail)
rowOut = WriteBlock_Styled(wsBB, rowOut, nama, kode, items)
rowOut = rowOut + 2

NextAkun:
Next r

'3) Rapikan kolom
wsBB.Columns(COL_TGL).ColumnWidth = 11
wsBB.Columns(COL_NAR).ColumnWidth = 42
wsBB.Columns(COL_DEB).ColumnWidth = 14
wsBB.Columns(COL_KRE).ColumnWidth = 14
wsBB.Columns(COL_SAL).ColumnWidth = 16

ClientExit:
Application.Calculation = xlCalculationAutomatic
Application.EnableEvents = True
Application.ScreenUpdating = True
End Sub

'===== AMBIL DATA JURNAL =====
' Return (tgl, nar, deb, kre) sudah urut tanggal. Cocok nama/kode akun.
Private Function CollectItems(wsJ As Worksheet, ByVal akunNamaCDA
As String, ByVal akunKodeCDA As String) As Collection
Dim L As New Collection, lastJ As Long, r As Long
Dim tgl As Variant, nar As String, deb As Double, kre As Double
Dim candD As String, candK As String
Dim targetName As String, targetCode As String

targetName = NormalizeName(akunNamaCDA)
targetCode = NormalizeCode(akunKodeCDA)

lastJ = wsJ.Cells(wsJ.Rows.Count, 1).End(xlUp).Row

For r = 2 To lastJ
If WorksheetFunction.CountA(wsJ.Rows(r)) = 0 Then GoTo NextR

tgl = wsJ.Cells(r, 1).Value
nar = Trim$(CStr(wsJ.Cells(r, 2).Value)): If nar = "" Then nar = "-"

candD = CStr(wsJ.Cells(r, 3).Value) 'Akun Debit
candK = CStr(wsJ.Cells(r, 4).Value) 'Akun Kredit

If InAccountHit(candD, targetName, targetCode) Then
deb = NzNum(wsJ.Cells(r, 4).Value): kre = 0
L.Add Array(tgl, nar, deb, kre)
End If

If InAccountHit(candK, targetName, targetCode) Then
deb = 0: kre = NzNum(wsJ.Cells(r, 5).Value)
L.Add Array(tgl, nar, deb, kre)
End If
NextR:
Next r

If L.Count > 1 Then SortByDate L
Set CollectItems = L
End Function

Private Function NormalizeName(ByVal s As String) As String
Dim t As String
t = Trim$(CStr(s))
t = Replace(t, vbTab, " ")
Do While InStr(t, " ") > 0 t = Replace(t, " ", "") Loop
'Kapas pola "### Nama"
If Len(t) >= 5 And InStrLen(t, 4) And Mid$(t, 5, 1) = " " Then t
= Trim$(Mid$(t, 4))
NormalizeName = UCCase$(t)
End Function

'Amil digit awal "1500", "1500 - Peredaran", "1500 Peredaran" ->
"1500"
Private Function NormalizeCode(ByVal s As String) As String
Dim t As String, i As Long, c As String
t = Trim$(CStr(s))
NormalizeCode = ""
For i = 1 To Len(t)
c = Mid$(t, i, 1)
If c Like "0-9" Then
NormalizeCode = NormalizeCode & c
Else If Len(NormalizeCode) > 0 Then
Exit For
End If
Next i
End Function

' true jika kandidat mengandung NAMA atau KODE akun target
Private Function InAccountHit(ByVal candidateRaw As String, ByVal
targetName As String, ByVal targetCode As String) As Boolean
Dim candName As String, candCode As String
candName = NormalizeName(candidateRaw)
candCode = NormalizeCode(candidateRaw)

InAccountHit = _
(candName = targetName) Or _
(candName Like "*" & targetName & "*") Or _
(Len(targetCode) > 0 And candCode = targetCode)
End Function

'===== TULIS BLOK + STYLING =====
'Baris N : HITAM -> Nama Akun | (C) "Kode Akun" | (D) Kode
'Baris N+1 : BIRU -> Tanggal | Kiraangan | Debit | Kredit | Saldo Akhir
'Baris N+2 : Detail = saldo berjalan
Private Function WriteBlock_Styled(ws As Worksheet, ByVal rowOut As
Long, _
ByVal akunNama As String, ByVal akunKode As
String, _
Items As Collection) As Long
Dim firstDetail As Long, lastDetail As Long, i As Long, r As Long
Dim running As Double, deb As Double, kre As Double, it As Variant
Dim mgHdrAcc As Range, mgHdrCol As Range, mgHdr As Range

'---- Header akun (HITAM) ----
ws.Cells(rowOut, COL_TGL).Value = akunNama
ws.Cells(rowOut, COL_DEB).Value = "Kode Akun"
ws.Cells(rowOut, COL_KRE).NumberFormat = "0"
ws.Cells(rowOut, COL_KRE).Value = Trim$(akunKode)
Set mgHdrAcc = ws.Range(ws.Cells(rowOut, COL_TGL),
ws.Cells(rowOut, COL_SAL))
StyleHeaderAccount mgHdrAcc

'---- Header kolom (BIRU) ----
ws.Cells(rowOut + 1, COL_TGL).Value = "Tanggal"
ws.Cells(rowOut + 1, COL_NAR).Value = "Kiraangan"
ws.Cells(rowOut + 1, COL_DEB).Value = "Debit"
ws.Cells(rowOut + 1, COL_KRE).Value = "Kredit"
ws.Cells(rowOut + 1, COL_SAL).Value = "Saldo Akhir"
Set mgHdrCol = ws.Range(ws.Cells(rowOut + 1, COL_TGL),
ws.Cells(rowOut + 1, COL_SAL))
StyleHeaderColumns mgHdrCol

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'--- Detail ---
firtDetail = rowOut + 2

' temp buat blok warna belum ada transaksi (sisa kredit)
if jnsr.Count = 0 Then
    WithBlock_Style = rowOut + 2
End Function
End If

running = 0
For i = 1 To Items.Count
    It = Items(i)
    r = firtDetail + (i - 1)

    ' Tanggal
    wc.Cells( COL_TG ).Value = CDate(Items(i))
    ' Nama
    wc.Cells( COL_NAR ).Value = It(i)

    ' Angka
    deb = CDB(Items(2)) / kse : CDB(Items(2))
    If deb <> 0 Then wc.Cells( COL_DCB ).Value = deb
    If kse <> 0 Then wc.Cells( COL_KSE ).Value = kse

    running = running + SignedMovement(jnsrKode, deb, kse)
    wc.Cells( COL_SAL ).Value = running
Next i
lastDetail = firtDetail + Items.Count - 1

'--- Formatting detail agar TERBACA ---
Set rngDet = wc.Range(wc.Cells(firtDetail, COL_TG), wc.Cells(lastDetail, COL_SAL))
With rngDet
    Interior.FontSize = xlFontSizeNone ' background putih
    Font.Color = COLOR_TEXT_DARK ' teks hitam
    Font.Bold = False
    VerticalAlignment = xlCenter
    HorizontalAlignment = xlGeneral
    WrapText = False
End With

If LIGHT_NUMBER_FORMAT Then
    wc.Range(wc.Cells(firtDetail, COL_TG), wc.Cells(lastDetail, COL_TG)).NumberFormat = "dd/mm/yyyy"
    wc.Range(wc.Cells(firtDetail, COL_DCB), wc.Cells(lastDetail, COL_SAL)).NumberFormat = "#,##0(,###)"
    wc.Range(wc.Cells(firtDetail, COL_DCB), wc.Cells(lastDetail, COL_DCB)).HorizontalAlignment = xlRight
    wc.Range(wc.Cells(firtDetail, COL_KSE), wc.Cells(lastDetail, COL_SAL)).HorizontalAlignment = xlRight
    wc.Range(wc.Cells(firtDetail, COL_NAR), wc.Cells(lastDetail, COL_NAR)).HorizontalAlignment = xlLeft
    wc.Range(wc.Cells(rowOut, COL_TG), wc.Cells(lastDetail, COL_SAL)).RowAutoFit
End If

ApplyBorder rngDet
WithBlock_Style = lastDetail + 1
End Function

'Normal balance: 1/5 debit, 2/1/4 kredit-
Private Function SignedMovement(ByVal kode As String, ByVal deb As Double, ByVal kse As Double) As Double
    Dim gpp As String: gpp = Left$(Trim(kode), 1)
    Select Case gpp
        Case "1", "5": SignedMovement = deb - kse
        Case "2", "3", "4": SignedMovement = -deb + kse
        Case Else: SignedMovement = deb - kse
    End Select
End Function

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'----- STYLING HELPERS -----
Private Sub UseColors()
    COLOR_ACC_HEADER = RGB(0, 0, 0) ' hitam
    COLOR_COL_HEADER = RGB(17, 17, 16) ' biru
    COLOR_TEXT_LIGHT = RGB(255, 255, 255) ' putih
    COLOR_TEXT_DARK = RGB(0, 0, 0) ' hitam
    COLOR_GRID = RGB(200, 200, 200) ' border
End Sub

Private Sub StyleHeaderAccount(rng As Range)
    With rng
        Interior.Color = COLOR_ACC_HEADER
        Font.Color = COLOR_TEXT_LIGHT
        Font.Bold = True
        HorizontalAlignment = xlLeft
        VerticalAlignment = xlCenter
        RowHeight = 20
    End With
    rng.Cells(1, COL_DCB).HorizontalAlignment = xlCenter ' "Kode Akun"
    rng.Cells(1, COL_KSE).HorizontalAlignment = xlCenter ' "Kode"
    ApplyBorder rng
End Sub

Private Sub StyleHeaderColumns(rng As Range)
    With rng
        Interior.Color = COLOR_COL_HEADER
        Font.Color = COLOR_TEXT_LIGHT
        Font.Bold = True
        HorizontalAlignment = xlCenter
        VerticalAlignment = xlCenter
        RowHeight = 10
    End With
    ApplyBorder rng
End Sub

Private Sub ApplyBorder(rng As Range)
    With rng.Border
       LineStyle = xlContinuous
        Color = COLOR_GRID
        Weight = xlThin
    End With
End Sub

'----- UTIL -----
Private Sub ClearDataAndFill(As Worksheet, ByVal firstRow As Long, ByVal colStart As Long, ByVal colEnd As Long)
    Dim lastRow As Long: rng = colStart : lastRow
    lastRow = LastUsedRow(rng)
    If lastRow < firstRow Then Exit Sub
    Set rng = wc.Range(wc.Cells(firstRow, colStart), wc.Cells(lastRow, colEnd))
    rng.ClearContents
    rng.Interior.FontSize = xlFontSizeNone
    rng.Font.Color = COLOR_TEXT_DARK ' reset agar tidak "but putih"
    rng.Font.Bold = False
End Sub

Private Function LastUsedRow(As Worksheet) As Long
    Dim r1 As Long, r2 As Long
    On Error Resume Next
    r1 = wc.Cells.Find(What:="", LookIn:=xlFormulas, SearchOrder:=xlByRows, SearchDirection:=xlPrevious).Row
    r2 = wc.Cells.Find(What:="", LookIn:=xlValues, SearchOrder:=xlByRows, SearchDirection:=xlPrevious).Row
    On Error GoTo 0
    LastUsedRow = Application.Max(r1, r2)
    If LastUsedRow = 0 Then LastUsedRow = 1
End Function

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Private Sub SortByDate(col As Collection)
    Dim i As Long, j As Long, tmp As Variant
    For i = 1 To col.Count - 1
        For j = i + 1 To col.Count
            If CDate(col(i)) > CDate(col(j)) Then
                tmp = col(i)
                Set col(i, col(j))
                Set col(j, tmp)
            End If
        Next j
    Next i
End Sub

Private Sub Sort(As Collection, ByVal index As Long, v As Variant)
    Dim i As Long, r As New Collection
    For i = 1 To col.Count
        If i = index Then r.Add v Else r.Add col(i)
    Next i
    Do While col.Count > 0: col.Remove 1: Loop
    For i = 1 To r.Count: col.Add r(i): Next i
End Sub

Private Function NotNull(As Variant) As Double
    On Error Resume Next
    NotNull = CDB(v)
    If Not Null <> 0 Then NotNull = 0
    On Error GoTo 0
End Function

' Paksa tanggal supaya benar-benar Date (kalau ada yang masuk string)
Private Function CoerceDate(As Variant) As Variant
    If IsDate(v) Then
        CoerceDate = CDate(v)
    Else
        ' coba pola umum "dd/mm/yyyy"
        On Error Resume Next
        CoerceDate = DateSerial(
            CInt(Mid(v, 7, 4)), CInt(Mid(v, 4, 2)), CInt(Left(v, 2))
        )
        If Not Null <> 0 Then CoerceDate = v
        On Error GoTo 0
    End If
End Function

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Kode Visual Basic For Applications Laporan Keuangan

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Option Explicit

' ===== KONSTAN & SETTING =====
' Kolom CALK: label di N, angka tahun 2025 di O
Private Const CALK_LABEL_CDL As Long = 14 ' N
Private Const CALK_CUR_CDL As Long = 15 ' O

' ===== UTIL & HELPER BERSAMA =====
Private Sub SafeSet(ws As Worksheet, ByVal addr As String, ByVal val As Variant)
    On Error Resume Next
    ws.Range(addr).Value = val
    On Error GoTo 0
End Sub

Private Sub SafeSetFormula(ws As Worksheet, ByVal addr As String, ByVal f As String)
    On Error Resume Next
    ws.Range(addr).Formula = f
    On Error GoTo 0
End Sub

Private Function GetV(d As Object, ByVal code As String) As Double
    If Not d Is Nothing Then
        If d.Exists(code) Then GetV = d(code) Else GetV = 0#
    End If
End Function

Private Function HasKey(d As Object, ByVal code As String) As Boolean
    If Not d Is Nothing Then HasKey = d.Exists(code) Else HasKey = False
End Function

Private Function GetDateIf(c As Range) As Variant
    If Not c Is Nothing And IsDate(c.Value) Then GetDateIf = CDate(c.Value) Else GetDateIf = Empty
End Function

Private Function NzD(v As Variant) As Double
    On Error Resume Next: NzD = CDbl(v): If Err.Number <> 0 Then NzD = 0: On Error GoTo 0
End Function

Private Function ProfitFromDict(d As Object) As Double
    Dim k, p#, b#
    If d Is Nothing Then Exit Function
    For Each k In d.keys
        Select Case left$(CStr(k), 1)
            Case "4": p = p + d(k)
            Case "5": b = b + d(k)
        End Select
    Next k
    ProfitFromDict = p - b
End Function

' Kontra-aset ditampilkan POSITIF agar mudah dipakai pada total aset (=SUM - akumulasi)
Private Function AccumDep_Positive(nm As Object, bal As Object) As Double
    Dim k As Variant, nmLow As String
    If nm Is Nothing Or bal Is Nothing Then Exit Function
    For Each k In nm.keys
        nmLow = LCase$(nm(k))
        If InStr(1, nmLow, "akumulasi penyusutan", vbTextCompare) > 0 Or
           InStr(1, nmLow, "akm penyusutan", vbTextCompare) > 0 Then
            AccumDep_Positive = Abs(bal(k))
        End If
    Next k
    AccumDep_Positive = 0#
End Function

' ===== TITIK MASUJE - BUILD SEMUA LAPORAN =====
Public Sub Build_FS_SideBySide_UpdateNumbers()
    Dim wsOut As Worksheet: Set wsOut = ActiveSheet

    ' Periode current (B2:C2) & prior (B3:C3) — optional
    Dim tNow1 As Variant, tNow2 As Variant, tPr1 As Variant, tPr2 As Variant
    On Error Resume Next
    tNow1 = GetDateIf(Worksheets("LaporanKeuangan").Range("B2"))
    tNow2 = GetDateIf(Worksheets("LaporanKeuangan").Range("C2"))
    tPr1 = GetDateIf(Worksheets("LaporanKeuangan").Range("B3"))
    tPr2 = GetDateIf(Worksheets("LaporanKeuangan").Range("C3"))
    On Error GoTo 0

    Application.ScreenUpdating = False
    Application.Calculation = xlCalculationManual

    ' 0) Bersihkan residu (tidak menyentuh CaLK M-P)
    ClearLegacy_LLRCaLK_Areas wsOut

    ' 1) Kumpulkan saldo Buku Besar (untuk isi LPK & LLR)
    Dim balNow As Object, nmNow As Object
    Dim balPrv As Object, nmPrv As Object
    Set balNow = CreateObject("Scripting.Dictionary")
    Set nmNow = CreateObject("Scripting.Dictionary")
    Set balPrv = CreateObject("Scripting.Dictionary")
    Set nmPrv = CreateObject("Scripting.Dictionary")

    CollectFromBukuBesar tNow1, tNow2, balNow, nmNow
    If IsDate(tPr1) Or IsDate(tPr2) Then CollectFromBukuBesar tPr1, tPr2, balPrv, nmPrv

    ' 2) Update angka ke template
    Update_LPK_Numbers wsOut, balNow, nmNow, balPrv, nmPrv
    Neraca (C:D)
    Update_LLRC_Numbers wsOut, balNow, balPrv ' Laba Rugi (E:F)
    Update_CaLK_Numbers wsOut ' CaLK (kolom G)
    link ke LPK & LLR

    Application.Calculation = xlCalculationAutomatic
    Application.ScreenUpdating = True
End Sub

' ===== KUMPULAN SALDO DARI BUKU BESAR =====
Private Sub CollectFromBukuBesar(ByVal start As Variant, ByVal tEnd As Variant, ...
    ByVal bal As Object, ByVal nm As Object)
    Dim wsBB As Worksheet: Set wsBB = Worksheets("BUKU BESAR")
    Dim LastRow As Long: LastRow = wsBB.Cells(wsBB.Rows.Count, "A").End(xlUp).Row
    Dim r As Long, nr As Long, code As String, nameA As String, tgl As Variant
    Dim dr, kr, nature As String, saldo#

    r = 1
    Do While r <= LastRow
        If LCase$(Trim$(wsBB.Cells(r, "C").Value)) = "kode akun:" Then
            code = Trim$(CStr(wsBB.Cells(r, "D").Value))
            nameA = Trim$(CStr(wsBB.Cells(r, "A").Value))
            If Len(code) > 0 Then
                If Not nm.Exists(code) Then nm(code) = nameA
                d = 0: k = 0
                nr = r + 2
                Do While nr <= LastRow
                    And (Len(Trim$(wsBB.Cells(nr, "A").Value)) > 0 Or
                        Len(Trim$(wsBB.Cells(nr, "B").Value)) > 0)
                    tgl = wsBB.Cells(nr, "A").Value
                    If IsDate(tgl) Then
                        If (IsEmpty(start) Or tgl >= start) And (IsEmpty(tEnd) Or tgl <= tEnd) Then
                            d = d + NzD(wsBB.Cells(nr, "C").Value)
                            k = k + NzD(wsBB.Cells(nr, "D").Value)
                        End If
                    End If
                    nr = nr + 1
                Loop

                nature = left$(code, 1)
                Select Case nature
                    Case "1", "5": saldo = d - k
                    Case "2", "3", "4": saldo = k - d
                    Case Else: saldo = d - k
                End Select

                If bal.Exists(code) Then bal(code) = bal(code) + saldo Else
                    bal(code) = saldo
                r = nr + 1
            Else
                r = r + 1
            End If
        Else
            r = r + 1
        End If
    Loop

    ' Lengkapi nama dari CODA (optional)
    Dim wsCODA As Worksheet, i As Long, lastCODA As Long, ck As String
    On Error Resume Next: Set wsCODA = Worksheets("CODA"): On Error GoTo 0
    If Not wsCODA Is Nothing Then
        lastCODA = wsCODA.Cells(wsCODA.Rows.Count, "A").End(xlUp).Row
        For i = 2 To lastCODA
            ck = Trim$(CStr(wsCODA.Cells(i, "A").Value))
            If Len(ck) > 0 Then
                If Not nm.Exists(ck) Then nm(ck) = Trim$(CStr(wsCODA.Cells(i, "B").Value))
            End If
        Next i
    End If
End Sub

```

```

* ***** UPGRADE ANGKA - LPK (C/D)
*****
Private Sub Update_LPK_Numbers(ws As Worksheet, _
    balNow As Object, minNow As Object, _
    balPriv As Object, minPriv As Object)

' Tahun berjalan (C)
SafeGet ws, "C6", GetV(balNow, "1100")
SafeGet ws, "C7", GetV(balNow, "1200")
SafeGet ws, "C8", GetV(balNow, "1300")
SafeGetFormula ws, "C9", "=SUM(C6:C8)"

SafeGet ws, "C10", GetV(balNow, "1400")
SafeGet ws, "C11", GetV(balNow, "1500")
SafeGet ws, "C12", GetV(balNow, "1600")
SafeGet ws, "C13", GetV(balNow, "1700")
SafeGet ws, "C14", AccanDag_Positve(minNow, balNow)
SafeGetFormula ws, "C15", "=SUM(C10:C13)+C14"

SafeGet ws, "C19", GetV(balNow, "2100")
SafeGet ws, "C20", GetV(balNow, "2200")
SafeGetFormula ws, "C21", "=SUM(C19:C20)"

Dim labaNow# : labaNow = ProfitFromDix(balNow)
SafeGet ws, "C25", GetV(balNow, "3100")
SafeGet ws, "C26", GetV(balNow, "3200") = labaNow
SafeGetFormula ws, "C28", "=SUM(C25:C26)"
SafeGetFormula ws, "C30", "=C25+C26"

' Pembandingan (D) - optional
If Not balPriv Is Nothing And balPriv.Count > 0 Then
    SafeGet ws, "D1", GetV(balPriv, "1100")
    SafeGet ws, "D2", GetV(balPriv, "1200")
    SafeGet ws, "D3", GetV(balPriv, "1300")
    SafeGetFormula ws, "D4", "=SUM(D1:D3)"

    SafeGet ws, "D10", GetV(balPriv, "1400")
    SafeGet ws, "D11", GetV(balPriv, "1500")
    SafeGet ws, "D12", GetV(balPriv, "1600")
    SafeGet ws, "D13", GetV(balPriv, "1700")
    SafeGet ws, "D14", AccanDag_Positve(minPriv, balPriv)
    SafeGetFormula ws, "D15", "=SUM(D10:D13)+D14"

    SafeGet ws, "D19", GetV(balPriv, "2100")
    SafeGet ws, "D20", GetV(balPriv, "2200")
    SafeGetFormula ws, "D22", "=SUM(D19:D20)"

    Dim labaPriv# : labaPriv = ProfitFromDix(balPriv)
    SafeGet ws, "D25", GetV(balPriv, "3100")
    SafeGet ws, "D26", GetV(balPriv, "3200") = labaPriv
    SafeGetFormula ws, "D28", "=SUM(D25:D26)"
    SafeGetFormula ws, "D30", "=D25+D26"
End If
End Sub

* ***** UPGRADE ANGKA - LLR (E/F)
*****
Private Sub Update_LL_R_Numbers(ws As Worksheet, balNow As Object,
    balPriv As Object)
    On Error Resume Next
    ws.Range("I5:I19").ClearContents
    ws.Range("J5:J19").ClearContents
    On Error GoTo 0

    SafeGet ws, "I5", GetV(balNow, "4100") ' Pendapatan usaha
    SafeGet ws, "I6", GetV(balNow, "4200") ' Pendapatan lain-lain
    SafeGetFormula ws, "I8", "=I5+I6" ' Jumlah pendapatan

    SafeGet ws, "I11", GetV(balNow, "5100") ' Beban usaha
    SafeGet ws, "I12", GetV(balNow, "5200") ' Beban lain-lain
    SafeGetFormula ws, "I14", "=I11+I12" ' Jumlah beban

    SafeGetFormula ws, "I16", "=I8-I14" ' Laba (ragi) sebelum pajak
    If HasKey(balNow, "9000") Then SafeGet ws, "I17", GetV(balNow,
    "6000") Else SafeGet ws, "I17", 0

```

```

SafeSetFormula ws, "J19", "=J16-J17"
End If
End Sub

' ***** UPGRADE ANGKA - CaLK (berdasar alamat
sel tetap) *****
' Mengambil angka 2025 dari Neraca (kolom C) & Laba Rugi (kolom I)
' dan menulis langsung ke sel kolom O sbb:
' O20 Kas, O23 Giro, O26 Deposito, O27 Jumlah KSOB, O30 Piutang
Usaha (Jumlah),
' O33 Beban Dibayar di Muka (Jumlah), O42 Penjualan, O43 Retur, O44
Jumlah,
' O47 Bunga Pinjaman, O48 Lain lain, O49 Jumlah, O51 Pajak
Penghasilan.
Private Sub Update_CaLK_Numbers(ws As Worksheet)
    With ws
        ' --- 3. KAS / 4. GIRD / 5. DEPOSITO (link ke Neraca C6:C9)
        Range("O20").Formula = "=C6" ' Kas
        Range("O23").Formula = "=C7" ' Giro
        Range("O26").Formula = "=C8" ' Deposito
        Range("O27").Formula = "=C9" ' Jumlah kas & setara kas

        ' --- 6. PIUTANG USAHA (Jumlah) -> Neraca C10
        Range("O30").Formula = "=C10"

        ' --- 7. BEBAN DIBAYAR DI MUKA (Jumlah) -> Neraca C12
        Range("O33").Formula = "=C12"

        ' --- 10. PENDAPATAN PENJUALAN (detail & Jumlah) -> Laba Rugi
        Range("O42").Formula = "=I5" ' Penjualan
        Range("O43").Value = 0 ' Retur (set 0; ubah jika punya sel
        retur)
        Range("O44").Formula = "=O42+O43" ' Jumlah

        ' --- 11. BEBAN LAIN LAIN (detail & Jumlah) -> Laba Rugi 112
        Range("O47").Value = 0 ' Bunga pinjaman (set 0 bila tidak
        dipisah)
        Range("O48").Formula = "=I12" ' Lain lain (total beban lain-
        lain)
        Range("O49").Formula = "=O47+O48" ' Jumlah (sama dengan
        I12)

        ' --- 12. BEBAN PAJAK PENGHASILAN -> Laba Rugi I17
        Range("O51").Formula = "=I17"
    End With
End Sub

' ***** BERSIHAN AREA RESIDU (tidak sentuh
CaLK MP) *****
Private Sub ClearLegacy_LLRCaLK_Areas(ws As Worksheet)
    On Error Resume Next
    ws.Range("C44:D58").ClearContents
    ws.Range("C93:D140").ClearContents
    ws.Range("I5:J19").ClearContents
    ws.Range("J5:J19").ClearContents
    On Error GoTo 0
End Sub

```

```

If labelCol < 1 Then labelCol = 1
Dim lastR As Long: lastR = ws.Cells(ws.Rows.Count,
labelCol).End(xlUp).Row
Dim r As Long, top As String, bot As String, tgt As String
tgt = UCase$(labelText)
For r = 1 To lastR
    bot = UCase$(Trim$(CStr(ws.Cells(r, labelCol).Value)))
    If Len(bot) > 0 Then
        If (tgt = tgt) Or (tgt Like "*" & tgt & "*") Then
            FindRowLike = r
            Exit Function
        End If
    End If
    Next r
FindRowLike = 0
End Function

' Cari label di bawah baris tertentu (dengan batas jarak)
Private Function FindRowAfter(ws As Worksheet, ByVal startRow As
Long, ByVal labelText As String, _
    ByVal labelCol As Long, Optional maxDown As Long
= 20) As Long
    Dim lastR As Long: lastR = ws.Cells(ws.Rows.Count,
labelCol).End(xlUp).Row
    Dim r As Long, top As Long, bot As Long, tgt As String
    tgt = UCase$(labelText)
    top = startRow + 1: bot = WorksheetFunction.Min(lastR, startRow +
maxDown)
    For r = top To bot
        bot = UCase$(Trim$(CStr(ws.Cells(r, labelCol).Value)))
        If Len(bot) > 0 Then
            If (tgt = tgt) Or (tgt Like "*" & tgt & "*") Then
                FindRowAfter = r
                Exit Function
            End If
        End If
        Next r
    FindRowAfter = 0
End Function

' Tulis formula langsung ke sel CaLK (by exact row)
Private Sub PutF(ws As Worksheet, ByVal rowIdx As Long, ByVal
formulaText As String)
    If rowIdx > 0 Then ws.Cells(rowIdx, CaLK_CUR_COL).Formula =
formulaText
End Sub

' Tulis formula ke baris "Jumlah" pada suatu seksi
Private Sub PutF_ToJumlah(ws As Worksheet, ByVal sectionTitle As
String, ByVal formulaText As String)
    Dim rHdr As Long: rHdr = FindRowLike(ws, sectionTitle,
CaLK_LABEL_COL)
    If rHdr = 0 Then Exit Sub
    Dim rJ As Long: rJ = FindRowAfter(ws, rHdr, "Jumlah",
CaLK_LABEL_COL, 25)
    If rJ = 0 Then rJ = rHdr ' fallback
    PutF ws, rJ, formulaText
End Sub

```

Kode Visual Basic For Applications Dashboard

```
Option Explicit

'----- KONFIGURASI -----
Private Const SHEET_INPUT As String = "INPUT TRANSAKSI"
Private Const SHEET_JURNAL As String = "JURNAL UMUM"
Private Const SHEET_BB As String = "BUKU BESAR"
Private Const SHEET_LK As String = "Laporan Keuangan"
Private Const SHEET_DASH As String = "DASHBOARD"

'----- UTIL -----
Private Function SheetGet(ByVal name As String) As Worksheet
    Set SheetGet = ThisWorkbook.Worksheets(name)
End Function

' Parser angka tahun format Indonesia (Rp, titik/koma, akuntansi)
Private Function ParseNumberIndo(ByVal v As Variant) As Double
    Dim s As String
    s = Trim$(CStr(v))
    If s = "" Then ParseNumberIndo = 0: Exit Function
    s = Replace(s, ",", ".")
    s = Replace(s, "Rp", "", vbTextCompare)
    s = Replace(s, "DIR", "", vbTextCompare)
    If Right$(s, 1) = "-" Then s = "-" & Left$(s, Len(s) - 1)
    If InStr(s, ".") > 0 And InStr(s, ",") > 0 Then
        s = Replace(s, ",", ".")
        s = Replace(s, ".", ",")
    End If
    ElseIf InStr(s, ",") > 0 Then
        s = Replace(s, ",", ".")
    End If
    On Error Resume Next
    ParseNumberIndo = CDbl(s)
    On Error GoTo 0
End Function

Private Function GetDateOrEmpty() As Range As Variant
    If Not Is Nothing And IsDate(Value) Then GetDateOrEmpty =
    CDate(Value) Else GetDateOrEmpty = Empty
End Function

' Ambil saldo akun "Kas" dari Buku Besar (kol A nama, kol D saldo) -
optional
Private Function GetSaldoKasBB() As Double
    On Error GoTo done
    Dim ws As Worksheet, f As Range
    Set ws = SheetGet(SHEET_BB)
    Set f = ws.Columns("A").Find(What="Kas", LookIn:=xlValues,
    LookAt:=xlWhole, MatchCase:=False)
    If Not f Is Nothing Then GetSaldoKasBB =
    ParseNumberIndo(ws.Cells(f.Row, "D").Value)
done:
End Function
```

```
' Normalisasi teks jenis transaksi agar tahun variasi penulisan
Private Function Normalisasi(ByVal rawItems As String) As String
    Dim s As String
    s = UCase$(rawItems)
    s = Replace(s, " ", "")
    s = Replace(s, "-", "")
    s = Replace(s, ":", "")
    s = Replace(s, ":", "")
    Mapping kosong:
    If InStr(s, "199") > 0 Or InStr(s, "KONVERSI") > 0 Then
        Normalisasi = "199"
    ElseIf InStr(s, "PENGELOMPOKAN") > 0 Or InStr(s, "BESAN") > 0 Or
    InStr(s, "BIAYA") > 0 Then
        Normalisasi = "PENGELOMPOKAN"
    ElseIf InStr(s, "PENDANAAN") > 0 Or InStr(s, "PENDALAN") > 0 Then
        Normalisasi = "PENDANAAN"
    Else
        Normalisasi = s ' fallback
    End If
End Function

'----- HITUNG PENGASIAN DARI INPUT -----
Private Sub ComputeSummary(ByVal pendapatan As Double, ByVal
    pengeluaran As Double, ByVal hpp As Double,
    ByVal tgl As Variant, ByVal tgl End As Variant)
    Dim ws As Worksheet, wLK As Worksheet
    Dim LastRow As Long, r As Long
    Dim catat As String, jenis As String, tgl As Variant, nominal As
    Double

    Set ws = SheetGet(SHEET_INPUT)
    On Error Resume Next: Set wLK = SheetGet(SHEET_LK): On Error
    GoTo 0

    If Not wLK Is Nothing Then
        tStart = GetDateOrEmpty(wLK.Range("B2"))
        tEnd = GetDateOrEmpty(wLK.Range("C2"))
    Else
        tStart = Empty: tEnd = Empty
    End If

    LastRow = ws.Cells(ws.Rows.Count, "A").End(xlUp).Row
    If ws.Cells(ws.Rows.Count, "G").End(xlUp).Row > LastRow Then
    LastRow = ws.Cells(ws.Rows.Count, "G").End(xlUp).Row

    pendapatan = 0: pengeluaran = 0: hpp = 0
    For r = 2 To LastRow
        catat = UCase$(Trim$(CStr(ws.Cells(r, "G").Value)))
        If catat = "YA" Then
            tgl = ws.Cells(r, "A").Value
            If (IsEmpty(tStart) Or (IsDate(tgl) And tgl >= tStart)) And
            (IsEmpty(tEnd) Or (IsDate(tgl) And tgl <= tEnd)) Then
                jenisN = Normalisasi(CStr(ws.Cells(r, "C").Value))
                nominal = ParseNumberIndo(ws.Cells(r, "F").Value)
                Select Case jenisN
                    Case "PENDANAAN":
                        pendapatan = pendapatan +
                        nominal
                    Case "PENGELOMPOKAN":
                        pengeluaran = pengeluaran +
                        nominal
                    Case "199":
                        hpp = hpp + nominal
                End Select
            End If
        End If
    Next r
End Sub
```

```
'----- UPDATE TIKS PADA SHAPE KPI (jika beberapa narsa) ---
Private Sub TryUpdateKPIShape(ByVal ws As Worksheet, ByVal shape
    As String, ByVal caption As String, ByVal valueNum As Double)
    On Error GoTo done
    Dim shp As Shape, txt As String
    Set shp = ws.Shapes(shape)
    txt = UCase$(caption) & vbCrLf & "Rp " & Format(valueNum,
    "#,##0")
    shp.TextFrame2.TextRange.Text = txt
    shp.TextFrame2.TextRange.Paragraphes(1, 1).Font.Size = 10
    shp.TextFrame2.TextRange.Paragraphes(1, 1).Font.Bold = True
    shp.TextFrame2.TextRange.Paragraphes(2, 1).Font.Size = 10
    shp.TextFrame2.TextRange.Paragraphes(2, 1).Font.Bold = True
done:
End Sub

Private Sub TryUpdateKPIShapeKlasso(ByVal ws As Worksheet, ByVal
    candidateName As Variant, ByVal caption As String, ByVal valueNum
    As Double)
    Dim i As Long
    For i = LBound(candidateName) To UBound(candidateName)
        On Error Resume Next
        If Not ws.Shapes(candidateName(i)) Is Nothing Then
            TryUpdateKPIShape ws, CStr(candidateName(i)), caption,
            valueNum
        End Sub
    End If
    On Error GoTo 0
Next i
End Sub

'----- GRAFIC BAR + PE (pendapatan vs Pengeluaran vs HPP
vs Laba) -----
Private Sub EnsureCharts(wd As Worksheet,
    ByVal pendapatan As Double,
    ByVal pengeluaran As Double,
    ByVal hpp As Double,
    ByVal laba As Double)

' Area baru data (tak menanggapi layout)
wd.Range("Z18AA14").ClearContents
wd.Range("Z18")&labaa = "Komponen": wd.Range("AA10")&labaa =
"jumlah"
wd.Range("Z11")&labaa = "Pendapatan": wd.Range("AA11")&labaa =
CDbl(pendapatan)
wd.Range("Z12")&labaa = "Pengeluaran": wd.Range("AA12")&labaa =
CDbl(pengeluaran)
wd.Range("Z13")&labaa = "Koneksi199": wd.Range("AA13")&labaa =
CDbl(hpp)
wd.Range("Z14")&labaa = "Laba Bersih": wd.Range("AA14")&labaa =
CDbl(laba)
wd.Range("AA11AA14").NumberFormat = "#,##0"

' ----- Chart 1: BAR -----
Dim co As ChartObject
On Error Resume Next
Set co = wd.ChartObjects("chr_ringkasan")
On Error GoTo 0
If co Is Nothing Then
    Set co = wd.ChartObjects.Add(Left:=20, Top:=210, Width:=750,
    Height:=310)
    co.Name = "chr_ringkasan"
End If
With co.Chart
    .ChartType = xlColumnClustered
    .HasLegend = False
    Do While .SeriesCollection.Count > 0: .SeriesCollection(1).Delete
    Loop
```

```

With .SeriesCollection.NewSeries
    .Name = "-" & "Jumlah" & "-"
    .Values = wsD.Range("Z11:Z14")
    .Values = wsD.Range("AA11:AA14")
End With
On Error Resume Next: .PlotBy = xlColumns: On Error GoTo 0
Axes(xlValue).HasMajorGridlines = True
On Error Resume Next: .SeriesCollection(1).Parent.GapWidth =
150: On Error GoTo 0
.HasTitle = True
.ChartTitle.Text = "Ringkasan: Pendapatan vs Pengeluaran vs HPP
vs Laba"
End With

' ----- Chart 2: PIE -----
Dim co2 As ChartObject
On Error Resume Next
Set co2 = wsD.ChartObjects("cht_komposisi")
On Error GoTo 0
If co2 Is Nothing Then
    Set co2 = wsD.ChartObjects.Add(left:=800, top:=210, width:=420,
height:=310)
    co2.Name = "cht_komposisi"
End If
With co2.Chart
    .ChartType = xlPie
    .HasLegend = True
    Do While .SeriesCollection.Count > 0: .SeriesCollection(1).Delete:
loop
With .SeriesCollection.NewSeries
    .Values = wsD.Range("Z11:Z13") ' Pendapatan, Pengeluaran,
HPP
    .Values = wsD.Range("AA11:AA13")
End With
.HasTitle = True
.ChartTitle.Text = "Komposisi: Pendapatan vs Pengeluaran vs HPP"
On Error Resume Next
.SeriesCollection(1).ApplyDataLabels
.SeriesCollection(1).DataLabels.ShowPercentage = True
.SeriesCollection(1).DataLabels.ShowValue = True
On Error GoTo 0
End With
End Sub

'----- RENDER DASHBOARD (tidak reset layout) -----
Public Sub UpdateDashboardLite()
    Dim wsD As Worksheet, wsLK As Worksheet
    Dim p As Double, g As Double, h As Double, laba As Double, kas As
Double
    Dim t1 As Variant, t2 As Variant

    Set wsD = SheetGet(SHEET_DASH)
    On Error Resume Next: Set wsLK = SheetGet(SHEET_LK): On Error
GoTo 0

    ' hitung ringkasan dari INPUT TRANSAKSI
    ComputeSummary p, g, h, t1, t2
    laba = p - g - h

    ' periode (opsional, aman)
    wsD.Range("B3").Value = If(IsDate(t1) And IsDate(t2), _
Format(t1, "dd/mm/yyyy") & " s.d " & Format(t2, "dd/mm/yyyy"), _
"Semua transaksi")

    ' update kartu KPI (akomodasi 2-3 kemungkinan nama shape)
    TryUpdateKPIShapeAliases wsD, Array("kpi_pendapatan",
"kpi_pendapatan_1"), "Pendapatan", p
    TryUpdateKPIShapeAliases wsD, Array("kpi_pengeluaran",
"kpi_pengeluaran_1"), "Pengeluaran", g
    TryUpdateKPIShapeAliases wsD, Array("kpi_konversi", "kpi_hpp",
"kpi_kpp"), "Konversi / HPP", h
    TryUpdateKPIShapeAliases wsD, Array("kpi_laba", "kpi_lababersih"),
"Laba Bersih", laba

    On Error Resume Next: kas = GetSaldoKasBB(): On Error GoTo 0
    If kas <> 0 Then TryUpdateKPIShapeAliases wsD, Array("kpi_kas",
"kpi_saldokas"), "Saldo Kas", kas

    ' grafik
    EnsureCharts wsD, p, g, h, laba

    ' footer
    wsD.Range("A32").Value = "Klik 'Update Dashboard' untuk
menyegarkan data dari input -> Jurnal -> Buku Besar -> Laporan."
End Sub

'----- HELPER: pemanggil aman -----
Private Sub SafeRun(ByVal macroName As String)
    On Error Resume Next
    Application.Run macroName
    Err.Clear
    On Error GoTo 0
End Sub

'----- SEKALI KLIK UNTUK USER -----
Public Sub UpdateAllOneClickLite()
    Application.ScreenUpdating = False

    ' Panggil jika ada - mencegah Compile error bila modul tsb belum
dibuat
    SafeRun "UpdateJurnal"
    SafeRun "UpdateSemuaBukuBesar" ' kalau tidak ada, akan
otomatis di skip
    SafeRun "UpdateBukuBesarT_OneClick" ' alternatif nama, juga akan
di skip bila tidak ada
    SafeRun "UpdateLaporanKeuangan"

    UpdateDashboardLite

    Application.ScreenUpdating = True
    MsgBox "Dashboard diperbarui.", vbInformation, "Selesai"
End Sub

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Kode Visual Basic For Applications Database

<pre>Option Explicit '===== KONFIGURASI ===== Private Const SH_DB As String = "DATABASE" ' nama sheet database terpusat Private Const SH_JU As String = "JURNAL UMUM" ' layar input jurnal ' Akun bantu untuk penutupan (ikuti COA Anda) Private Const AKUN_IKHTISAR As String = "3999 - Ikhtisar Laba Rugi" Private Const AKUN_SALDO LABA As String = "3200 - Saldo Laba / Modal" ' Setelah tutup buku, kosongkan layar kerja (tanpa menghapus DATABASE) Private Const CLEAR_SHEETS SESUDAH TUTUP As Boolean = True '===== MENU PUBLIK ===== ' 1) SALIN JURNAL UMUM ? DATABASE (append, tidak merimpa) Public Sub Simpan_Jurnal_Ke_DATABASE() Dim wsJU As Worksheet, wsDB As Worksheet Set wsJU = SheetMust(SH_JU) Set wsDB = EnsureDBSheet() Dim lastJU As Long: lastJU = LastRow(wsJU) If lastJU < 2 Then MsgBox "Tidak ada data di " & SH_JU & "!", vbExclamation: Exit Sub End If Application.ScreenUpdating = False Dim r As Long, t, desk\$, nmD\$, nmK\$, deb#, kre#, For r = 2 To lastJU If WorksheetFunction.CountA(wsJU.Range(wsJU.Cells(r, 1), wsJU.Cells(r, 6))) = 0 Then GoTo NextR t = wsJU.Cells(r, 1).Value If Not IsDate(t) Then GoTo NextR desk = Trim\$(CStr(wsJU.Cells(r, 2).Value)) nmD = Trim\$(CStr(wsJU.Cells(r, 3).Value)) deb = NzNum(wsJU.Cells(r, 4).Value) nmK = Trim\$(CStr(wsJU.Cells(r, 5).Value)) kre = NzNum(wsJU.Cells(r, 6).Value)</pre>	<pre>' sisi debit (jika ada) If nmD <> "" And deb <> 0 Then AppendDB wsDB, NewID(CDate(t)), CDate(t), desk, ParseNo(nmD), nmD, deb, 0, Year(CDate(t)) End If ' sisi kredit (jika ada) If nmK <> "" And kre <> 0 Then AppendDB wsDB, NewID(CDate(t)), CDate(t), desk, ParseNo(nmK), nmK, 0, kre, Year(CDate(t)) End If NextR: Next r Application.ScreenUpdating = True MsgBox "Transaksi dari " & SH_JU & " berhasil disimpan ke " & SH_DB & "!", vbInformation End Sub ' 2) TUTUP TAHUN OTOMATIS ? Jurnal penutup + Saldo Awal tahun berikutnya (semua ke DATABASE) Public Sub Tutup_Tahun_Buku_AUTOMATIS() Dim wsDB As Worksheet: Set wsDB = EnsureDBSheet() Dim yr As Long: yr = DetectLastYear(wsDB) If yr = 0 Then MsgBox "DATABASE kosong. Tidak ada tahun untuk ditutup.", vbExclamation: Exit Sub End If If MsgBox("Proses tutup buku tahun " & yr & " dan buat saldo awal tahun " & (yr + 1) & "?", vbQuestion + vbYesNo, "Tutup Tahun Buku") <> vbYes Then Exit Sub End If Application.ScreenUpdating = False ' 2.1 Hitung saldo akhir per akun untuk tahun tsb Dim bal As Object: Set bal = CreateObject("Scripting.Dictionary") CollectBalancesByYear wsDB, yr, bal ' 2.2 Jurnal penutup (31/12/yr) Dim tClose As Date: tClose = DateSerial(yr, 12, 31) Dim k As Variant, netto As Double</pre>	<pre>' Pendapatan (4*): Debit akun pendapatan, Kredit Ikhtisar For Each k In bal.Keys If GroupByNo(CStr(k)) = 4 And bal(k) <> 0 Then AppendDB wsDB, NewID(tClose), tClose, "Penutup pendapatan", ParseNo(CStr(k)), CStr(k), Abs(bal(k)), 0, yr AppendDB wsDB, NewID(tClose), tClose, "Penutup pendapatan", ParseNo(AKUN_IKHTISAR), AKUN_IKHTISAR, 0, Abs(bal(k)), yr netto = netto + bal(k) End If Next k ' Beban (5*): Debit Ikhtisar, Kredit akun beban For Each k In bal.Keys If GroupByNo(CStr(k)) = 5 And bal(k) <> 0 Then AppendDB wsDB, NewID(tClose), tClose, "Penutup beban", ParseNo(AKUN_IKHTISAR), AKUN_IKHTISAR, Abs(bal(k)), 0, yr AppendDB wsDB, NewID(tClose), tClose, "Penutup beban", ParseNo(CStr(k)), CStr(k), 0, Abs(bal(k)), yr netto = netto + bal(k) End If Next k ' Pindahkan saldo ikhtisar (laba/rugi) ? Saldo Laba/Modal If netto <> 0 Then If netto > 0 Then ' Laba: (Debit Ikhtisar, Kredit Saldo Laba) AppendDB wsDB, NewID(tClose), tClose, "Ikhtisar ? Saldo Laba (laba)", ParseNo(AKUN_IKHTISAR), AKUN_IKHTISAR, Abs(netto), 0, yr AppendDB wsDB, NewID(tClose), tClose, "Ikhtisar ? Saldo Laba (laba)", ParseNo(AKUN_SALDO LABA), AKUN_SALDO LABA, 0, Abs(netto), yr Else ' Rugi: (Debit Saldo Laba, Kredit Ikhtisar) AppendDB wsDB, NewID(tClose), tClose, "Ikhtisar ? Saldo Laba (rugi)", ParseNo(AKUN_SALDO LABA), AKUN_SALDO LABA, Abs(netto), 0, yr AppendDB wsDB, NewID(tClose), tClose, "Ikhtisar ? Saldo Laba (rugi)", ParseNo(AKUN_IKHTISAR), AKUN_IKHTISAR, 0, Abs(netto), yr End If End If ' 2.3 Re-hitung posisi sampai 31/12/yr untuk basis saldo awal Dim balFinal As Object: Set balFinal = CreateObject("Scripting.Dictionary") CollectBalancesUpToDate wsDB, DateSerial(yr, 12, 31), balFinal</pre>
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'2.4 Jumlah Saldo Awal (1/1/yr+1): 1* Debit, 2/3* Kredit
Dim iOpen As Date: iOpen = DateSerial(yr + 1, 1, 1)
Dim totalD, totalK

For Each k In balInBalKeys
    Dim g As Integer: g = GroupByNo(CStr(k))
    Dim s As Double: s = balInBal(g)
    If s = 0 Then Goto NextK
    Select Case g
        Case 1: ASSET ? Debit
            Append2D wdR, NewD(iOpen), iOpen, "Saldo Awal " & (yr
+ 1): ParaWNo(CStr(k), CStr(g), Abs(s), 0, yr + 1: totalD = totalD + Abs(s))
        Case 2, 3: LIAB/EKUI/IAS ? Kredit
            Append2D wdR, NewD(iOpen), iOpen, "Saldo Awal " & (yr
+ 1): ParaWNo(CStr(k), CStr(g), 0, Abs(s), yr + 1: totalK = totalK + Abs(s))
    End Select
NextK
Next k
'Penyeimbang jika perlu (salah rounding)
If Abs(totalD - totalK) > 0.0001 Then
    If totalD > totalK Then
        Append2D wdR, NewD(iOpen), iOpen, "Penyelesaian Saldo
Awal", ParaWNo(AKUN_SALDO_LABA), AKUN_SALDO_LABA, 0
    Else
        Append2D wdR, NewD(iOpen), iOpen, "Penyelesaian Saldo
Awal", ParaWNo(AKUN_SALDO_LABA), AKUN_SALDO_LABA, Abs(totalK -
totalD), yr + 1
    End If
End If

Application.ScreenUpdating = True

'2.5 Opsi lain: kosongkan layar kerja (bukan DATABASE)
If CLEAR_SHEETS_SELESAH_TULUP Then
    WpEffExts SH_JU, 1
    WpEffExts "BUKU BESAR", 3
    WpEffExts "LAPORAN KEUANGAN", 2
    End If

MsgBox "Tutup buku " & yr & " selesai. Saldo awal " & (yr + 1) & "
tercatat di " & SH_DB & "\", vbInformation
End Sub

'----- DATABASE CORE
'-----
'Pastikan sheet DATABASE ada + header kolom
Private Function EnsureDBSheet() As Worksheet
    Dim ws As Worksheet
    On Error Resume Next: Set ws = ThisWorkbook.Worksheets(SH_DB):
On Error Goto 0
    If ws Is Nothing Then
        Set ws =
ThisWorkbook.Worksheets.Add(After:=Sheets(Sheets.Count))
        ws.Name = SH_DB
    End If
    If WorksheetFunction.CountA(ws.Rows(1)) = 0 Then
        ws.Range("A1:H1").Value = Array("ID", "Tanggal", "Deskripsi", "No
Akun", "Nama Akun", "Debit", "Kredit", "Periode")
        ws.Rows(1).Font.Bold = True
        ws.Columns("AA").ColumnWidth = 26
        ws.Columns("BB").ColumnWidth = 12
        ws.Columns("CC").ColumnWidth = 42
        ws.Columns("DD").ColumnWidth = 12
        ws.Columns("EE").ColumnWidth = 30
        ws.Columns("FG").ColumnWidth = 14
        ws.Columns("HH").ColumnWidth = 10

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    End If
    If WorksheetFunction.CountA(ws.Rows(1)) = 0 Then
        ws.Range("A1:H1").Value = Array("ID", "Tanggal", "Deskripsi", "No
Akun", "Nama Akun", "Debit", "Kredit", "Periode")
        ws.Rows(1).Font.Bold = True
        ws.Columns("AA").ColumnWidth = 26
        ws.Columns("BB").ColumnWidth = 12
        ws.Columns("CC").ColumnWidth = 42
        ws.Columns("DD").ColumnWidth = 12
        ws.Columns("EE").ColumnWidth = 30
        ws.Columns("FG").ColumnWidth = 14
        ws.Columns("HH").ColumnWidth = 10
    End If
    Set EnsureDBSheet = ws
End Function

'Tambah satu baris ke DATABASE
Private Sub AppendDblRow As Worksheet, ByVal id As String, ByVal tgl As
Date, ...
    ByVal deb As String, ByVal noAkun As String, ByVal
noAkun As String, ...
    ByVal deb As Double, ByVal kre As Double, ByVal periode
As Long()
    Dim r As Long: r = LastRow(ws) + 1
    ws.Cells(1, 1).Value = id
    ws.Cells(2, 2).Value = tgl
    ws.Cells(3, 3).Value = deb
    ws.Cells(4, 4).Value = noAkun
    ws.Cells(5, 5).Value = noAkun
    ws.Cells(6, 6).Value = deb
    ws.Cells(7, 7).Value = kre
    ws.Cells(8, 8).Value = periode
    ws.Cells(2, 2).NumberFormat = "dd/mm/yyyy"
    ws.Range(ws.Cells(4, 4), ws.Cells(7, 7)).NumberFormat = "#,##0"
End Sub

'----- PERHITUNGAN SALDO
'-----
'Amil saldo akun per tahun (janda awal kelompok normal)
Private Sub CollectSaldoAccByYear As Worksheet, ByVal yr As Long,
ByVal bal As Object
    Dim lastR As Long: lastR = LastRow(ws)
    Dim r As Long: r = lastR: deb = 0: kre = 0
    For i = 2 To lastR
        r = ws.Cells(2, 2).Value
        If i < Date() And Year(Date()) = yr Then
            nrs = Trim(CStr(ws.Cells(5, 5).Value))
            deb = Nz(Numer(ws.Cells(6, 6).Value))
            kre = Nz(Numer(ws.Cells(7, 7).Value))
            bal(nrs) = Nz(Dbl, nrs) + SignedByGroup(GroupByNo(nrs),
deb, kre)
        End If
    Next r
    End Sub

'Amil saldo kumulatif s.d. tanggal tertentu
Private Sub CollectSaldoAccUpToDate As Worksheet, ByVal dt As
Date, ByVal bal As Object
    Dim lastR As Long: lastR = LastRow(ws)
    Dim r As Long: r = lastR: deb = 0: kre = 0
    For i = 2 To lastR
        r = ws.Cells(2, 2).Value
        If i < Date() And CDate(i) <= dt Then
            nrs = Trim(CStr(ws.Cells(5, 5).Value))
            deb = Nz(Numer(ws.Cells(6, 6).Value))
            kre = Nz(Numer(ws.Cells(7, 7).Value))
            bal(nrs) = Nz(Dbl, nrs) + SignedByGroup(GroupByNo(nrs),
deb, kre)
        End If
    Next r
    End Sub

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'----- BANTUAN KLASIFIKASI AKUN
'-----
'Amil "nomor akun" dari string "1100 - kas" ? "1100"
Private Function ParaNo(ByVal nrs As String) As String
    Dim dc As Integer
    If iStr(n, "-") > 0 Then dc = Trim(Split(n, "-")(0))
    ParaNo = dc
End Function

'Kelompok akun: 1, 5 diambil dari digit pertama nomor akun (atau
keempat nama)
Private Function GroupByNo(ByVal nrs As String) As Integer
    Dim nC As Integer: nC = UCase(nrs)
    If Len(nC) >= 1 And iStr(nC, "0") = 0 Then
        GroupByNo = CInt(nC)
    End Function

'fallback keurutkan berdasarkan nama
Dim ud As Integer: ud = UCase(nrs)
If iStr(nC, "P") = 0 Or iStr(nC, "D") = 0 Then
    GroupByNo = 4: Goto NextF
If iStr(nC, "S") = 0 Or iStr(nC, "B") = 0 Then
    GroupByNo = 5: Goto NextF
If iStr(nC, "L") = 0 Or iStr(nC, "T") = 0 Then
    GroupByNo = 2: Goto NextF
If iStr(nC, "M") = 0 Or iStr(nC, "A") = 0 Then
    GroupByNo = 3: Goto NextF
If iStr(nC, "K") = 0 Or iStr(nC, "I") = 0 Then
    GroupByNo = 1: Goto NextF
End Function

'anda saldo awal kelompok normal
Private Function SignedByGroup(ByVal grp As Integer, ByVal deb As
Double, ByVal kre As Double) As Double
    Select Case grp
        Case 1, 5: SignedByGroup = deb - kre 'normal debit
        Case 2, 3, 4: SignedByGroup = -deb + kre 'normal kredit
        Case Else: SignedByGroup = deb - kre
    End Select
End Function

'----- UTLI UMUM
'-----
'Pastikan sheet ada (bukan blank, diBuat)
Private Function SheetExist(ByVal nrs As String) As Worksheet
    On Error Resume Next
    Set SheetExist = ThisWorkbook.Worksheets(nrs)
    On Error Goto 0
    If SheetExist Is Nothing Then
        Set SheetExist =
ThisWorkbook.Worksheets.Add(After:=Sheets(Sheets.Count))
        SheetExist.Name = nrs
    End If
    End Function

ID unik: yyyyymmdd-Nomor-### (pakai unik antar buku)
Private Function NewD(ByVal tgl As Date) As String
    Basic eq As Long
    If eq >= 9999 Then eq = 0
    eq = eq + 1
    NewD = Format(tgl, "yyyyymmdd") & "-" & Format(Numer(
Numer()) & "-" & Format(eq, "0000")
End Function

Private Function LastRow As Worksheet) As Long
    On Error Resume Next
    LastRow = ws.Cells.Find(What:="", LookIn:=xlValues,
SearchOrder:=xlByRows, SearchDirection:=xlPrevious).Row
    If LastRow = 0 Then LastRow = 1
End Function

Private Function NzNrs As Variant) As Double
    On Error Resume Next
    NzNrs = CDBS(
If Is Number <-> 0 Then NzNrs = 0
On Error Goto 0
End Function

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UMKM Toko Upik Aksesoris



UMKM Toko Mas G Tarigan



UMKM TOKO KARYA PERKASA

