Question

You are working as Business Analyst in IJS Bank Limited. Currently your organization is working on Loan Applicant Clients for the current quarter. The Manager of the Branch asked you to analyze Loan Applicant's data and to Present appropriate report on the shared data. The report should be demonstrated using Dashboard into MS Excel.

Features of Dashboard

- Gender Ratio of Applicants
- Car Owner/ Non-Owner Ratio
- House Owner/ Non-Owner Ratio
- Client Income Type
- Client's Level of Education
- Client's Housing Type
- Client's Family Status
- Client's Occupation Type

Separate Worksheet Required for

- Data Summary of All Female Client's for Income and Loan Amount using New Functions
- Data Summary of All Male Client's for Income and Loan Amount using List Functions
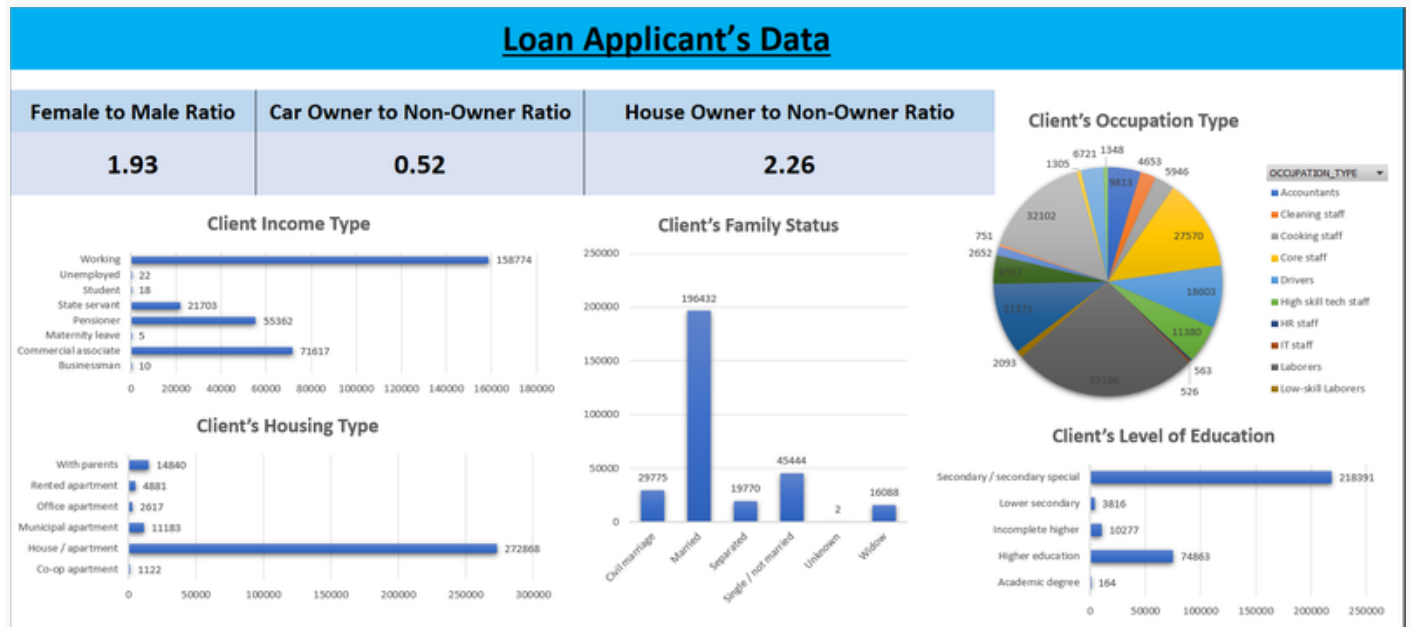- Data Summary for all Flag Columns like (FLAG_DOCUMENT_2, FLAG_DOCUMENT_3 etc.) using all variants of DCOUNT function.

Other Deliverables

- Create a Macro for Data Formatting (Conditional Formatting, Freezing Panes) of workbook as same will be applied to the data of next quarter
- Create VBA Code to convert selected data into pdf from applicant data
- Check Spelling mistakes in the workbook using VBA Code

ANSWER

LINK : Project-2 Loan Applicant Data Analysis Link

Dashboard:

VBA Code to convert selected data into pdf from applicant data:

(General)

```
Sub ConvertToPDF()

    ' Define variables
    Dim file_name As String
    Dim file_path As String
    Dim rg As Range

    ' Set range to convert
    Set rg = Selection

    ' Prompt user for file name and location
    file_name = InputBox("Enter file name (without .pdf extension):")
    file_path = Application.GetSaveAsFilename(file_name, "PDF Files (*.pdf), *.pdf")

    ' Export range as PDF
    ActiveSheet.ExportAsFixedFormat Type:=xlTypePDF, _
        Filename:=file_path, _
        Quality:=xlQualityStandard, _
        IncludeDocProperties:=True, _
        IgnorePrintAreas:=False


    ' Confirmation message
    MsgBox "PDF file created successfully!"


End Sub
```
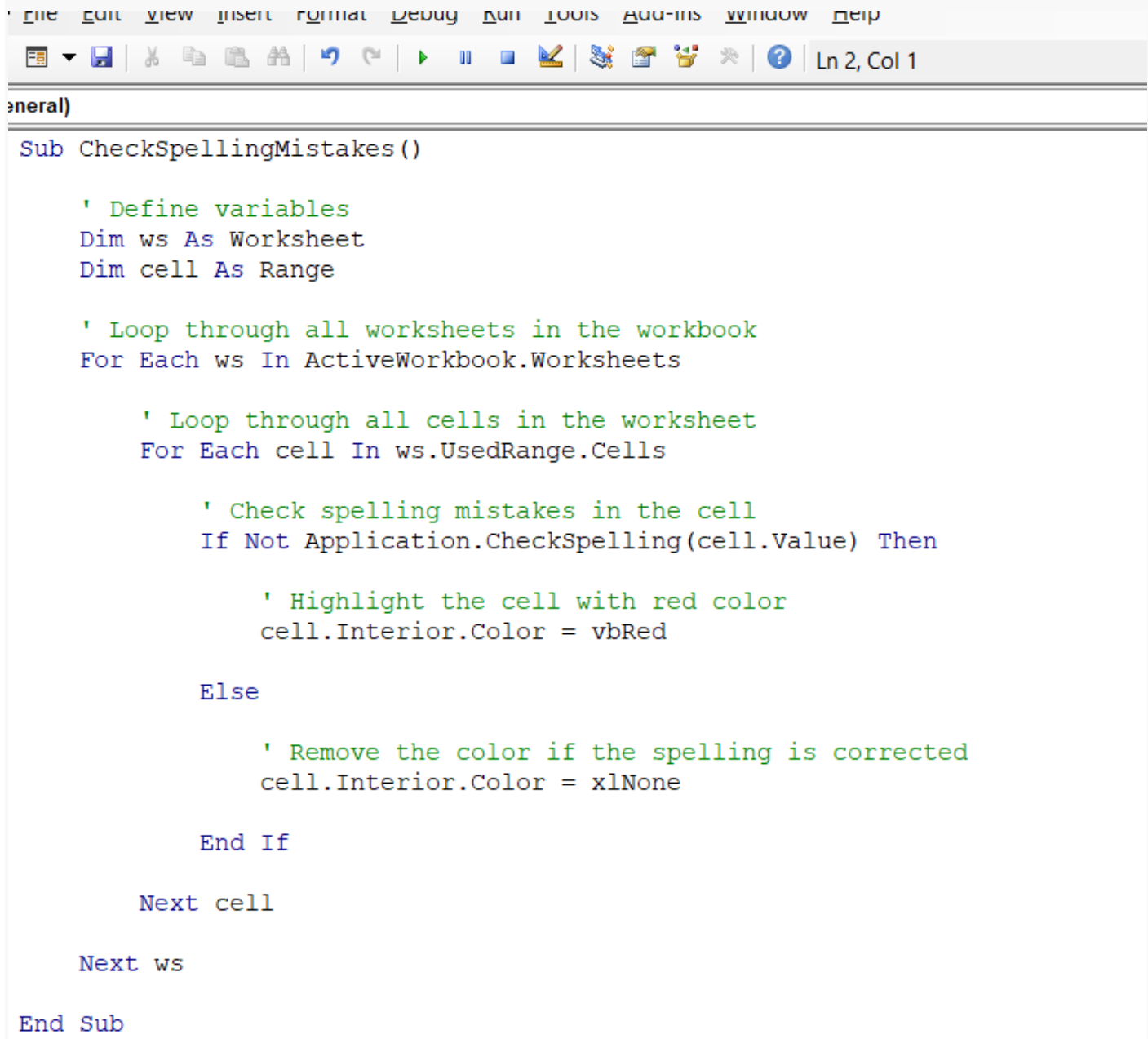
A Macro for Data Formatting (Conditional Formatting, Freezing Panes):

```
Sub DataFormatting()
'
' DataFormatting Macro
'

'
    Range("A1").Select
    Range(Selection, ActiveCell.SpecialCells(xlLastCell)).Select
    Application.CutCopyMode = False
    ActiveSheet.ListObjects.Add(xlSrcRange, Range("$A$1:$DR$307512"), , xlYes). _
        Name = "Table8"
    Range("Table8[#All]").Select

    ActiveSheet.ListObjects("Table8").TableStyle = "TableStyleMedium6"
    Range("C6").Select
    With ActiveWindow
        .SplitColumn = 0
        .SplitRow = 1
    End With
    ActiveWindow.FreezePanes = True

End Sub
```

VBA Code to Check Spelling mistakes in the workbook:

(General)

```vba
Sub CheckSpellingMistakes()

    ' Define variables
    Dim ws As Worksheet
    Dim cell As Range

    ' Loop through all worksheets in the workbook
    For Each ws In ActiveWorkbook.Worksheets

        ' Loop through all cells in the worksheet
        For Each cell In ws.UsedRange.Cells

            ' Check spelling mistakes in the cell
            If Not Application.CheckSpelling(cell.Value) Then

                ' Highlight the cell with red color
                cell.Interior.Color = vbRed

            Else

                ' Remove the color if the spelling is corrected
                cell.Interior.Color = xlNone

            End If

        Next cell

    Next ws

End Sub
```

Link
= https://docs.google.com/spreadsheets/d/1EaCm2n7LoIKfDP5QQEZAZsXYOsYympqE/e
dit?usp=sharing&ouid=101247440597897541106&rtpof=true&sd=true