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import cx_Oracle
import pandas as pd
from openpyxl import load_workbook
from openpyxl.styles import Alignment, Border, Side, numbers, PatternFill

# create sql connection
con = cx_Oracle.connect('U/P')

# sql query
data = pd.read_sql('select * from table_name, con)
con.close()

#data save to excel
data.to_excel('Report.xlsx', sheet_name='Page1', index=False)

#openpyxl load_workbook() function is used when you have to access an MS Excel
file in openpyxl module.
wb = load_workbook('Report.xlsx')

#access Summary sheet
ws = wb['Page1']

#worksheet tab color
ws.sheet_properties.tabColor = 'FF9333'

#manually adjusting the columns width
ws.column_dimensions['A'].width = 10
ws.column_dimensions['B'].width = 34.29
ws.column_dimensions['D'].width = 20
ws.column_dimensions['E'].width = 20
ws.column_dimensions['F'].width = 20

#put the $ sign in front of dollar amount
for cell in ws['D']:
    cell.number_format = numbers.FORMAT_CURRENCY_USD_SIMPLE

for cell in ws['E']:
    cell.number_format = numbers.FORMAT_CURRENCY_USD_SIMPLE

for cell in ws['F']:
    cell.number_format = numbers.FORMAT_CURRENCY_USD_SIMPLE

#column header alignment to left, center with wrap text
col_align = Alignment(horizontal='left', vertical='bottom', wrap_text=True)
for row in range(1,2):
    for col in range(1,26):
        ws.cell(row, col).alignment = col_align

#except column header all the other data align to left
row_align = Alignment(horizontal='left')
for row in range(2,20):
    for col in range(1,26):
        ws.cell(row, col).alignment = row_align

#borderlign to entire dataset
thin_border = Border(left=Side(style='thin'),
                      right=Side(style='thin'),

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        top=Side(style='thin'),
        bottom=Side(style='thin'))
for row in ws['A1:Y18']:
    for cell in row:
        cell.border = thin_border

#conditional coloring if the value='REVIEW'. #fhcolor has to be hex-code
fill_pattern=PatternFill(patternType='solid', fgColor='B8FF33')
for i in range(2,20):
    if ws.cell(row=i, column=23).value == 'REV':
        ws.cell(row=i, column=23).fill = fill_pattern

    if ws.cell(row=i, column=24).value == 'REV':
        ws.cell(row=i, column=24).fill = fill_pattern

    if ws.cell(row=i, column=25).value == 'REV':
        ws.cell(row=i, column=25).fill = fill_pattern

wb.save('Report.xlsx')
wb.close()
print('Successfully Downloaded')
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