import io

from pptx import Presentation

from pptx.util import Inches, Pt

from pptx.enum.text import PP\_ALIGN

# Create a presentation object

prs = Presentation()

# Title Slide

slide\_layout = prs.slide\_layouts[0]

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

subtitle = slide.placeholders[1]

title.text = "Sales Performance Report: 2015-2016"

subtitle.text = "Key Insights and Analysis"

# Slide 1: 2015 Agent Performance

slide\_layout = prs.slide\_layouts[1]

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2015 Agent Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Tolu had the highest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Rev: 2,883,445 / 21.08%"

p = tf.add\_paragraph()

p.text = "Tonye had the lowest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Per: 289.12 / 2.79%"

# Slide 2: 2015 Product Performance

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2015 Product Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "HP had the highest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Par: 5,814 / 414 units"

p = tf.add\_paragraph()

p.text = "Lenovo had the lowest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Par: 208.80 / 160 units"

p = tf.add\_paragraph()

p.text = "Average Price of the year 2015 is 200.00"

# Slide 3: 2015 Branch Performance

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2015 Branch Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Ijoh is the highest performing branch with Total Revenue of:"

p = tf.add\_paragraph()

p.text = "7,305.56 / 70.45%"

p = tf.add\_paragraph()

p.text = "GRT is the lowest performing branch"

p = tf.add\_paragraph()

p.text = "Total Revenue: 808.38 / 7.8%"

# Slide 4: 2016 Agent Performance

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2016 Agent Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Chinma had the highest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Rev: 3,102 / 33.51%"

p = tf.add\_paragraph()

p.text = "Torbari had the lowest sales revenue:"

p = tf.add\_paragraph()

p.text = "Total Rev: 57.71 / 0.62%"

# Slide 5: 2016 Product Performance

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2016 Product Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Apple had the highest performing sales:"

p = tf.add\_paragraph()

p.text = "Total Per: 3,247 / 308 units"

p = tf.add\_paragraph()

p.text = "Apple had the lowest:"

p = tf.add\_paragraph()

p.text = "Total Per: 250 / 2 units"

p = tf.add\_paragraph()

p.text = "Average price of 2016 is 125.00"

# Slide 6: 2016 Branch Performance

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2016 Branch Performance"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "GRA had the highest performance:"

p = tf.add\_paragraph()

p.text = "Total Rev: 5,193 / 56%"

p = tf.add\_paragraph()

p.text = "Addah Town had the lowest performance:"

p = tf.add\_paragraph()

p.text = "Total Rev: 231.12 / 2.5%"

# Slide 7: 2016 Revenue by Month

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "2016 Revenue by Month"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "July had the highest performance: Total Rev: 1,646"

p = tf.add\_paragraph()

p.text = "March had the lowest performance: Total Rev: 167.44"

# Slide 8: Revenue by Branch (Overall?)

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "Revenue by Branch"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Ijoh Branch has the highest Sales Revenue:"

p = tf.add\_paragraph()

p.text = "Total Revenue: 11,139.07 / 56.73%"

p = tf.add\_paragraph()

p.text = "Town Branch has the lowest Sales Revenue:"

p = tf.add\_paragraph()

p.text = "Total Revenue: 2,1486.42 / 10.67%"

# Slide 9: Noticeable Insights

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "Noticeable Insights"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Only 3 out of 11 agents sold Apple products (Tolu, Emeka, Chinma)"

p = tf.add\_paragraph()

p.text = "Only 5 out of 11 agents sold company products (Blessing, Ibrahim, Torbari, Chinma, Uche)"

p = tf.add\_paragraph()

p.text = "Only 5 out of 11 agents sold HP products – DELL (Emeka, China, George, Blessing, Tolu)"

p = tf.add\_paragraph()

p.text = "All 11 agents sold HP products"

p = tf.add\_paragraph()

p.text = "Only 8 agents out of 11 sold Lenovo products (Tolu, George, Blessing, Tonye, Uche, Chinedu, Ibrahim, Tunde)"

p = tf.add\_paragraph()

p.text = "No Agent sold all 5 products"

p = tf.add\_paragraph()

p.text = "Blessing and Uche sold the highest number of distinct products (4)"

p = tf.add\_paragraph()

p.text = "Torbari and Tunde sold the lowest number of distinct products (2)"

# Slide 10: Over the 2 Years

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "Over the 2 Years"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "Agent Performance:"

p = tf.add\_paragraph()

p.text = "Emeka had the highest sales: Revenue [3,109.44 (15.84%)]"

p = tf.add\_paragraph()

p.text = "Torbari had the lowest sales: Revenue [536.75 (2.73%)]"

p = tf.add\_paragraph()

p.text = "Product Performance:"

p = tf.add\_paragraph()

p.text = "HP has the highest sales revenue: 955k $ 722 units sold."

p = tf.add\_paragraph()

p.text = "Apple has the lowest Sales Revenue: 1.5k $ 10 units sold."

p = tf.add\_paragraph()

p.text = "Year Performance:"

p = tf.add\_paragraph()

p.text = "2015 is the highest performing year with Total Revenue – 10,369.54"

p = tf.add\_paragraph()

p.text = "Units Sold – 943"

p = tf.add\_paragraph()

p.text = "2016 is the lowest performing year with Total Revenue – 9,258.39"

p = tf.add\_paragraph()

p.text = "Units Sold – MK"

# Slide 11: Revenue by Month Over Years

slide = prs.slides.add\_slide(slide\_layout)

title = slide.shapes.title

title.text = "Revenue by Month Over Years"

content = slide.placeholders[1]

tf = content.text\_frame

tf.text = "December has the highest Revenue by month"

p = tf.add\_paragraph()

p.text = "We have more sales in December than any other month"

p = tf.add\_paragraph()

p.text = "March has the least Revenue by month i.e."

p = tf.add\_paragraph()

p.text = "we have less sales in the month of March."

# Save the presentation to a bytes buffer

buffer = io.BytesIO()

prs.save(buffer)

buffer.seek(0)

# Encode to base64

import base64

ppt\_base64 = base64.b64encode(buffer.read()).decode('utf-8')

print(ppt\_base64)