```
!pip install openpyxl
     Requirement already satisfied: openpyxl in /usr/local/lib/python3.10/dist-packages (3.1.2)
     Requirement already satisfied: et-xmlfile in /usr/local/lib/python3.10/dist-packages (from openpyxl) (1.1.0)
import openpyxl
xlsx_file_path = 'unicef_sowc.xlsx.xlsx'
workbook = openpyxl.load_workbook(xlsx_file_path)
print(workbook)
     <openpyx1.workbook.workbook.Workbook object at 0x7bc802f5f970>
sheet_names = workbook.sheetnames
print("Names of the sheets in the workbook:")
for sheet_name in sheet_names:
  print(sheet_names)
     Names of the sheets in the workbook:
     ['Data Notes', 'Table 9 ']
['Data Notes', 'Table 9 ']
sheet_name = 'Table 9 '
sheet = workbook[sheet_name]
sheet_name = 'Table 9 '
sheet = workbook[sheet_name]
print(sheet)
     <Worksheet "Table 9 ">
print(dir(sheet))
     ['BREAK_COLUMN', 'BREAK_NONE', 'BREAK_ROW', 'HeaderFooter', 'ORIENTATION_LANDSCAPE', 'ORIENTATION_PORTRAIT', 'PAPERSIZE_A3', 'PAPERSIZE
    4
print(sheet.rows)
     <generator object Worksheet._cells_by_row at 0x7bc802bb7bc0>
help(sheet.rows)
     Help on generator object:
     _cells_by_row = class generator(object)
       Methods defined here:
         \__{del}_{(...)}
         __getattribute__(self, name, /)
             Return getattr(self, name).
         __iter__(self, /)
             Implement iter(self).
         __next__(self, /)
             Implement next(self).
         __repr__(self, /)
             Return repr(self).
         close(...)
             close() -> raise GeneratorExit inside generator.
             send(arg) -> send 'arg' into generator,
```

```
return next yielded value or raise StopIteration.

throw(...)
throw(value)
throw(type[,value[,tb]])

Raise exception in generator, return next yielded value or raise
StopIteration.

Data descriptors defined here:

gi_code

gi_frame

gi_running

gi_yieldfrom
object being iterated by yield from, or None
```

```
for row in sheet.rows:
  for cell in row:
    print(cell.value, end='\t')
    print()
```

None None

```
for row_index, row_values in enumerate(sheet.iter_rows(min_row=1, values_only=True), start=1):
 row_name = f"Row{row_index}"
 print(row_name)
 for cell_index, cell_value in enumerate(row_values, start=1):
    print(f" Cell{cell_index}: {cell_value}")
    print("-" *20)
     Cell6: None
     Cell7: None
     Cell8: None
     Cell9: None
     Cell10: None
     Cell11: None
     Cell12: None
     Cell13: None
     Cell14: None
     Cell15: None
     Cell16: None
     Cell17: None
     Cell18: None
     Cell19: None
     Cell20: None
     Cell21: None
     Cell22: None
     Cell23: None
     Cell24: None
     Cell25: None
     Cell26: None
     Cell27: None
     Cell28: None
     Cell29: None
     Cell30: None
     Cell31: None
     Cell32: None
     Cell33: None
     Cell34: None
```

```
start_row = None
for row_index, row_values in enumerate(sheet.iter_rows(min_row=1, values_only=True), start=1):
  if "Countries and areas" in row_values:
    start_row = row_index + 1
    break
extracted_data = {}
if start row is not None:
  for row_index, row_values in enumerate(sheet.iter_rows(min_row=start_row, values_only=True), start=start_row):
    country_name = row_values[1]
    child_labor_data = {
        'total': row_values[4],
        'male': row_values[6],
        'female': row_values[8]
    other_data = row_values[10:]
    extracted_data [country_name] = {'child_labor': child_labor_data,'other_data': other_data}
    print(f"Row {row_index}: {row_values[1:4]}")
    print(f"\ Child\ Labor\ (\%):\ \{row\_values[4]\}\ (total),\ \{row\_values[6]\}(male),\ \{row\_values[8]\}\ (female)")
    print(f" Other Data: {row_values[10:]}")
    print("-" * 50)
else:
  print("'Countries and areas' not found")
```

else:

print("Error with start or stop row values")

```
NOW AUT. (NOICE, NOICE,
                                                                                                                                                                  NO THETAYE CHILING.
                               Child Labor (%): None (total), None(male), None (female)
                               Other Data: (None, None, None,
                           Row 255: (None, None, None)
                               Child Labor (%): None (total), None(male), None (female)
                               Other Data: (None, None, None,
                           Row 256: ('DEFINITIONS OF THE INDICATORS', None, None)
                                Child Labor (%): None (total), None(male), None (female)
                               Other Data: (None, None, None,
start_row = 15
stop\_row = 212
if 1 <= start_row <= sheet.max_row and 1 <= sheet.max_row and start_row <= stop_row:
           extracted_data = {}
           for row index, row values in enumerate(sheet.iter rows(min row=start row, max row=stop row, values only=True), start=start row):
                    country_name = row_values[1]
                    if country_name is None:
                              continue
                     child_labor_data = {
                                           'total': row_values[4],
                                           'male': row_values[6],
                                           'female': row_values[8]
                     }
                    other_data = row_values[10:]
                     extracted_data[country_name] = {'child_labor': child_labor_data,'other_data': other_data}
                     print("\nExtracted Country:")
                     for i, name in enumerate(extracted_data.keys(), start=1):
                                print(f"{i}, {name}")
```

```
141, Republic of Korea
     142, Republic of Moldova
     143, Romania
    144, Russian Federation
     145, Rwanda
     146, Saint Kitts and Nevis
     147, Saint Lucia
     148, Saint Vincent and the Grenadines
    149, Samoa
     150, San Marino
     151, Sao Tome and Principe
    152, Saudi Arabia
     153, Senegal
     154, Serbia
    155, Seychelles
     156, Sierra Leone
     157, Singapore
    158, Slovakia
     159, Slovenia
if 1 <= start_row <= sheet.max_row and 1 <= stop_row <= sheet.max_row and start_row <= stop_row:
  extracted_data = {}
  headers row = next(sheet.iter rows(min row=1, max row=1, values only=True))
  headers = headers_row[1:]
  for row index, row values in enumerate(sheet.iter rows(min row=start row, max row=stop row, values only=True), start=start row):
    country_name = row_values[1]
    if country_name is None:
     continue
     country_data = {}
      child_labor_labels = ['total', 'male', 'female']
      child_labor_values = [None if value in ('-','',None) or not isinstance(value, (int,float)) else float(value)if isinstance (value, (int,
      country_data['child_labor'] = dict(zip(child_labor_labels, child_labor_values))
      other_data_labels = ['married_by_15', 'married_by_18']
      other_data_values = [None if value in ('-','', None) or not isinstance(value,(int,float))else float(value) if isinstance (value, (int,
      country_data['other_data'] = dict(zip(other_data_labels, other_data_values))
      extracted_data[country_name] = country_data
      for country, data in extracted_data.items():
          print(f"\nCountry: {country}")
          print("Data:")
          for category, values in data.items():
           print(f" {catgeory}: {values}")
          print("-" * 50)
```

print("Error with start or stop row values")