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# This gets us access to the MySQL library for call
# to access and fetch record from our MySQL database
import MySQLdb

# The following gets us access to the various Reportlab calls
from reportlab.pdfgen import canvas
from reportlab.lib.pagesizes import letter
from reportlab.lib.units import inch, cm

# This connects us to MySQL and the Texas Tax database
conn = MySQLdb.connect(host = 'localhost',
                        user = 'root',
                        passwd = 'cesare05',
                        db = 'texas_tax')

# This connects us to cursor
cursor = conn.cursor()
# This executes an SQL select for all records in the
# Texas summary Report table called texassumrpt
cursor.execute('select * from texassumrpt')
# This creates a list of all records in the texassumrpt
# in a list variable called data
data = cursor.fetchall()

# This is a function to create a page with one line giving
# the total for the Texas state tax
def taxtotal(tt,totrec):
    tt.drawString(18, 556, totrec[0])
    tt.drawString(198, 556, str(totrec[1]))
    tt.drawRightString(410, 556, str(int(totrec[2])))
    tt.drawString(432, 556, str(totrec[3]))
    taxamt = round(int(totrec[2]) * totrec[3],2)
    print taxamt
    tt.drawRightString(585, 556, str(taxamt))

# This is a function to create a page of individual city
# and county tax lines 20 record at a time.
def taxline(tt,detail):
    i = 0
    tottaxamt = 0
    while i < len(detail):
        tt.drawString(18, 556-(24*i), detail[i][0])
        tt.drawString(198, 556-(24*i), str(detail[i][1]))
        tt.drawRightString(410, 556-(24*i), str(int(detail[i][2])))
        tt.drawString(432, 556-(24*i), str(detail[i][3]))
        taxamt = round(int(detail[i][2]) * detail[i][3],2)
        tt.drawRightString(585, 556-(24*i), str(taxamt))
        tottaxamt += taxamt
        i += 1
    tt.drawRightString(475, 46, str(tottaxamt))
tt = canvas.Canvas("Texas_Tax_Rpt.pdf", pagesize=letter)
width, height = letter

# The following lines are used to calculate the number
# of pages to be printed with a 20 lines per page max
# and possibility of a short last page
recCnt = len(data)
pageCnt = (recCnt -1) / 20
if (recCnt - 1) % 20 > 0:

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    pagecnt += 1

# The first record of the database contains the state
# total tax and is printed on the first page of the
# report
taxtotal(tt,data[0])
tt.showPage()

# The following code prints a page of data at a time
# Note: at this time I do not print any page totals
recidx = 1
page = 20
while recidx < reccnt:
    detail = data[recidx:page + 1]
    taxline(tt,detail)
    tt.showPage()
    recidx += 20
    if page + 20 > reccnt:
        page = reccnt
    else:
        page += 20

tt.save()
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