

Student Name: Ronaldlee Ejalu

Student Number: 2020637

Module 1: Homework Part1(b)

```
def generateInsertString(tableName, listPar):
    """Function that returns a SQL Statement given the table name and the value list as parameters"""

    valuesL = listPar      # assign the value list parameter to the valuesL object
    stringValue = ""       # declare a string object
    delim = ", "           # declare and assign a character delim
    for i in valuesL:      # iterate through the elements of the list

        if i.strip("").replace("-",
",").isdigit():          # replace any hypens with an empty space before checking whether the element is a digit.
            stringValue += str(i) + delim                # build a string
        else:
            stringValue += "'" + str(i) + "'" + delim

    derivedStr = "(" + stringValue[0:(len(stringValue.strip(" ")) - 1)] + ");"
    # clean up the derived string by removing the last comma and surround the string within brackets

    return "INSERT INTO %s VALUES %s" %(tableName, derivedStr)
    # return the derived SQL Insert statement

#print(generateInsertString('Students', ['1', 'Jane', 'A+']))
# print(generateInsertString("Phones", ['42', '312-555-1212']))
print(generateInsertString("Contacts", ['34', 'Ronaldlee', 'Ejalu', '734-757-5933']))
```

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Module 1: Homework Part1(b)

```
Relationschema.drawio generateInsertScript.py X
C:\> Users > rejalul > OneDrive - Henry Ford Health System > DSC450 > Assignments > Week1 > Part1PythonFunctions > generateInsertScript.py > generateInsertString

1
2 def generateInsertString(tableName, listPar):
3     """Function that returns a SQL Statement given the table name and the value list as parameters"""
4
5     valuesL = listPar # assign the value list parameter to the valuesL object
6     stringValue = "" # declare a string object
7     delim = ", " # declare and assign a character delim
8     for i in valuesL: # iterate through the elements of the list
9
10        if i.strip("").replace("-", "").isdigit(): # replace any hypens with an empty space before checking whether the element is a digit.
11            stringValue += str(i) + delim # build a string
12        else:
13            stringValue += "'" + str(i) + "'" + delim
14
15    derivedStr = "(" + stringValue[0:(len(stringValue.strip(" ")) - 1)] + ");" # clean up the derived string by removing the last comma and surround the string within brackets
16
17    return "INSERT INTO %s VALUES %s" %(tableName, derivedStr) # return the derived SQL Insert statement
18
19
20
21 #print(generateInsertString('Students', ['1', 'Jane', 'A+']))
22 print(generateInsertString("Phones", ['42', '312-555-1212']))
23
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python + -

PS C:\Users\rejalul> & C:\Users\rejalul\AppData\Local\Programs\Python\Python39\python.exe "c:\Users\rejalul\OneDrive - Henry Ford Health System\DSC450\Assignments\Week1\Part1PythonFunctions\generateInsertScript.py"
INSERT INTO Phones VALUES (42, 312-555-1212);
PS C:\Users\rejalul>

```
Relationschema.drawio generateInsertScript.py X
C:\> Users > rejalul > OneDrive - Henry Ford Health System > DSC450 > Assignments > Week1 > Part1PythonFunctions > generateInsertScript.py > ...

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: Python + -

PS C:\Users\rejalul> & C:\Users\rejalul\AppData\Local\Programs\Python\Python39\python.exe "c:\Users\rejalul\OneDrive - Henry Ford Health System\DSC450\Assignments\Week1\Part1PythonFunctions\generateInsertScript.py"
INSERT INTO Phones VALUES (42, 312-555-1212);
PS C:\Users\rejalul>

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Module 1: Homework Part1(b)

```
Relationships.drawio generateInsertScript.py
C:\Users\rejalu1 > OneDrive - Henry Ford Health System > DSC450 > Assignments > Week1 > Part1PythonFunctions > generateInsertScript.py > ...
1
2 def generateInsertString(tableName, listPar):
3     """Function that returns a SQL Statement given the table name and the value list as parameters"""
4
5     valuesL = listPar      # assign the value list parameter to the valuesL object
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7     delim = ", "          # declare and assign a character delim
8     for i in valuesL:      # iterate through the elements of the list
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10        if i.strip("").replace("-", "").isdigit():    # replace any hypens with an empty space before checking whether the element is a digit.
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12        else:
13            stringValue += "'" + str(i) + "'" + delim
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15    derivedStr = "(" + stringValue[0:(len(stringValue.strip(" ")) - 1)] + ");" # clean up the derived string by removing the last comma and surround the string within brackets
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17    return "INSERT INTO %s VALUES %s" %(tableName, derivedStr)                # return the derived SQL Insert statement
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22 # print(generateInsertString("Phones", ['42', '312-555-1212']))
23 print(generateInsertString("Contacts", ['34', 'Ronaldlee', 'Ejalu', '734-757-5933']))
24
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: Python

```
PS C:\Users\rejalu1> & C:\Users\rejalu1\AppData\Local\Programs\Python\Python39\python.exe "C:\Users\rejalu1\OneDrive - Henry Ford Health System\DSC450\Assignments\Week1\Part1PythonFunctions\generateInsertScript.py"
INSERT INTO Contacts VALUES (34, "Ronaldlee", "Ejalu", 734-757-5933);
PS C:\Users\rejalu1>
```