**ASSESSMENT**

Use the supplied CSV-files to build an array that will resemble the structure of supplied file called 'Sample Data Capture' .

You may use a database or array to create **a SQL 'Select'** statement that will show one total of all the employees working in the **'Sales' and 'Research'** departments where the employees of both departments earn an **'Hourly Rate' of between 10 and 20**. Also display the **total calculated**.

Create a text file called **'CSV-Result.csv'** and insert the resultset into that file.

Create a second text file called **'SQL\_Syntax.txt'** and insert the SQL-syntax you used to obtain the resultset.

Create a third file called **'Resultset-Total.txt'** and insert the Total of the above mentioned task into that.

How do you post/reply on these tasks?

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1. Supply the following:

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-The code you created to complete this practical, accompanied in the Python file as well as any other files you used.

-The different software you used to complete this practical.

-Any additional files you used to complete this practical.

Email all files back to use once you completed the practical.

**RESULT - E Marais:**

I wrote a Python file, **‘Array\_Assessment.py’** to do the assignment.

I also used Sqlite as the database support, included is the **‘Assessm\_db.sqlite’** file.

Included is a jpg of my printed results, see **‘Assessment result.jpg’**.

I created it in my program to write the SQL results to a csv file, **'CSV-Result.csv’**

I managed to use the data files, except for ‘Health Benefits Data.csv’.

The program complained about the first 3 lines that are not the normal format of line 1 containing the header, and the rest of the lines containing the data. I spent about an hour and half to try to solve that, but decided, for this assignment purpose, to remove these lines in order to continue. *However, I wrote into my program to handle the rest of the data in these lines, (‘,,,,,,,,,,’) and the last non-data lines.*

I wrote the SQL I used in **'SQL\_Syntax.txt',** attached.

I created the **'Resultset-Total.txt'** and inserted the Total earned depending on the query, attached.

The different software you used to complete this practical:

Python 2.7.14

Sqlite