**37.How to create a data base and store & retrieve data from a data base in python?**

**Objective:**

* To create data base to store our data using python.

**Process:**

* Install sqlalchemy package from anaconda.
* Import create\_engine object from sqlalchemy.
* Read the data set.
* Create data base engine by using create\_engine method.
* Store our data set to the data base using data.to\_sql().
* Retrieving the data using sqlite3 query.

**Input:**

* Data sample(csv file).

**Output:**

* Data base table for our data.

**Source code:**

#import libraries and sub-packages

from sqlalchemy import create\_engine

import pandas as pd

#read the sample data set

data=pd.read\_csv('/home/soft27/soft27/Sathish/

Pythonfiles/Employee.csv')

#Create the dtatbase engine

engine = create\_engine('sqlite:///:memory:')

#store the data as a table

data.to\_sql('data\_table', engine)

#Query 1

result1 = pd.read\_sql\_query('SELECT \* FROM data\_table', engine)

print('Result 1')

print(result1)

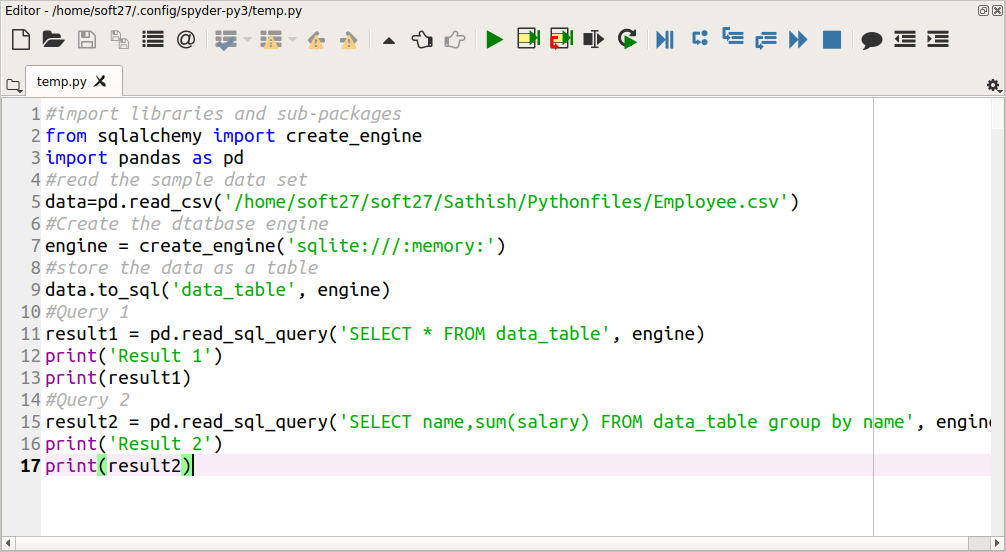
#Query 2

result2 = pd.read\_sql\_query('SELECT name,sum(salary) FROM data\_table group by name', engine)

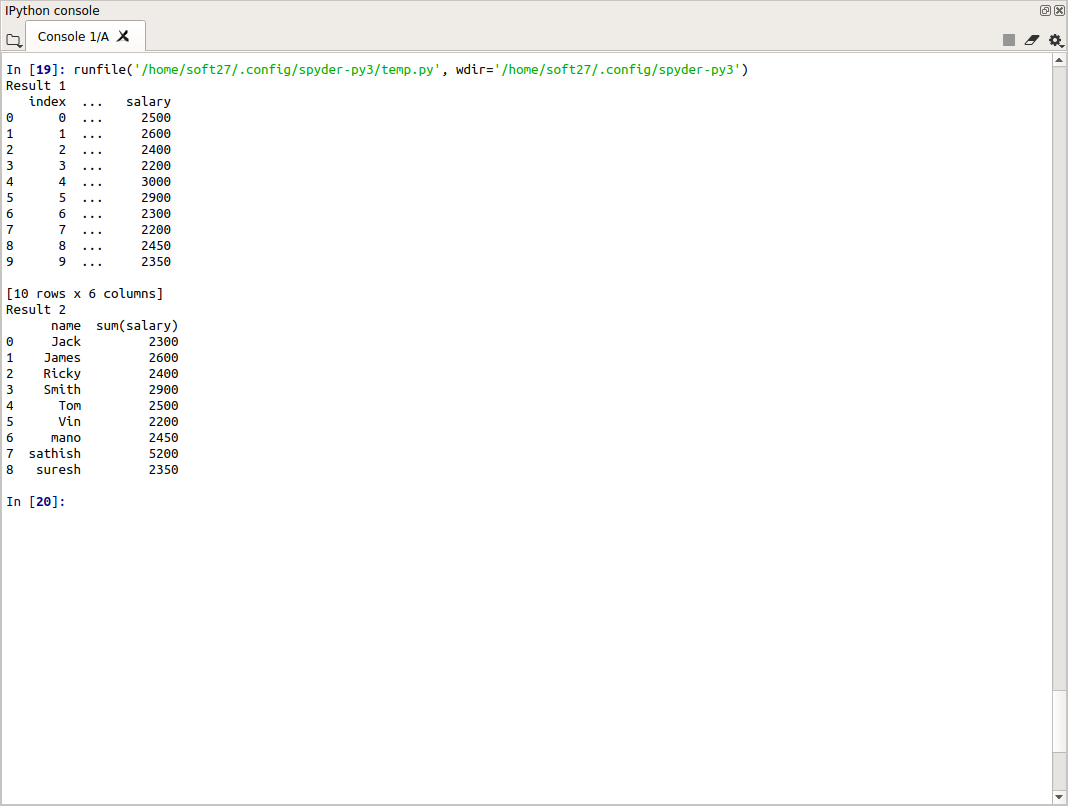
print('Result 2')

print(result2)

**Screen shot:**

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**Output:**

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