In [1]:

```python
!pip install psycopg2
!pip install pprint
```

```
Collecting psycopg2
  Downloading psycopg2-2.9.3-cp39-cp39-win_amd64.whl (1.2 MB)
Installing collected packages: psycopg2
Successfully installed psycopg2-2.9.3

ERROR: Could not find a version that satisfies the requirement pprint (from
versions: none)
ERROR: No matching distribution found for pprint
```

In [171]:

```python
!pip install psycopg2
!pip install pprintpp
```

```
Requirement already satisfied: psycopg2 in c:\users\stuti\anaconda3\lib\site
-packages (2.9.3)
Requirement already satisfied: pprintpp in c:\users\stuti\anaconda3\lib\site
-packages (0.4.0)
```

In [172]:

```python
import psycopg2
import pprint
```

In [173]:

```python
import pandas as pd
df=pd.read_csv("pers.csv")
print(df)
```

```
   serial      first       last        dob                        emai
l
0       1       Jane        Doe  05-02-1995  jane.doe@postgresqltutorial.co
m
1       2      Stuti  chaturvedi  02-04-1998      stutichaturvedi244@gmail.co
m
2       3       Irum    Hussain  13-02-1998        irumhussain233@gmail.co
m
3       4  Haripriya    goswami  02-08-1999        haripriya235@gmail.co
m
4       5     vrinda      patel  05-08-1999        vrindapatel666@gmail.co
m
5       6    yashita   vajpayee  03-07-1998  yashitavajpayee234@gmail.co
m
```

In [177]:

```python
try:
    Conn = psycopg2.connect(host="localhost",
    database="test",
    user="postgres",
    password="password")
    cursor = Conn.cursor()
    # Executing a SQL query to insert data into  table
    insert_query = """"INSERT INTO PERSONS(ID,first_name,last_name,dob,email) VALUES (9, 'AE
#query='''\COPY persons(first_name, last_name, dob, email)
#FROM 'pers.csv' DELIMITER ',' CSV HEADER;'''
    cursor.execute(insert_query)

    Conn.commit()
    print("Record inserted successfully")
#Conn.close()
# Fetch result
    cursor.execute("SELECT * from PERSONS")
    record = cursor.fetchall()
    print("Result ", record)
   # cursor.execute("DESC TABLE")
#update record
    query="""Update PERSONS set first_name = 'susa' where id = 1"""
    cursor.execute(query)
    Conn.commit()
except (Exception, psycopg2.Error) as error:
    print("Error while connecting to PostgreSQL", error)
finally:
    if Conn:
        cursor.close()
        Conn.close()
        print("PostgreSQL connection is closed")
#Conn.close()
```

```
Record inserted successfully
Result  [(2, 'SMARIDHI', 'CHATURVEDI', datetime.date(1998, 2, 4), 'STUTICHAT
URVEDI234@GMAIL.COM'), (4, 'SMARIDHI', 'CHATURVEDI', datetime.date(1998, 2,
4), 'STUTICHATURVEDI234@GMAIL.COM'), (5, 'SMARIDHI', 'CHATURVEDI', datetime.
date(1998, 2, 4), 'STUTICHATURVEDI234@GMAIL.COM'), (6, 'SMARIDHI', 'CHATURVE
DI', datetime.date(1998, 2, 4), 'STUTICHATURVEDI234@GMAIL.COM'), (1, 'susa',
'CHATURVEDI', datetime.date(1998, 2, 4), 'STUTICHATURVEDI234@GMAIL.COM'),
(7, 'SMARIDHI', 'CHATURVEDI', datetime.date(1998, 2, 4), 'STUTICHATURVEDI234
@GMAIL.COM'), (8, 'AEISHA', 'CHATURVEDI', datetime.date(1998, 8, 7), 'AEISHA
YATURVEDI234@GMAIL.COM'), (9, 'AEISHA', 'CHATURVEDI', datetime.date(1998, 8,
7), 'AEISHAYATURVEDI234@GMAIL.COM')]
PostgreSQL connection is closed
```

In [168]:

```python
try:
    Conn = psycopg2.connect(host="localhost",
    database="test",
    user="postgres",
    password="password")
    cursor = Conn.cursor()
    # Executing a SQL query to insert data into  table
    cursor.execute("DROP TABLE University")
    Conn.commit()
    Create_table = """create table University(UID INTEGER,NAME VARCHAR(20),LOCATION VARCHAR
#query='''\COPY persons(first_name, last_name, dob, email)
#FROM 'pers.csv' DELIMITER ',' CSV HEADER;'''
    cursor.execute(Create_table)
    Conn.commit()
    print("table CREATED successfully")
#Conn.close()
# Executing a SQL query to insert data into  table
    insert_query = """INSERT INTO University(UID,NAME,LOCATION,STUDENTID) VALUES (1, 'BITS
#query='''\COPY persons(first_name, last_name, dob, email)
#FROM 'pers.csv' DELIMITER ',' CSV HEADER;'''
    cursor.execute(insert_query)
    Conn.commit()
# Fetch result
    cursor.execute("SELECT * from University")
    record = cursor.fetchall()
    print("Result ", record)
#update record
    # query="""Update PERSONS set first_name = 'susa' where id = 1"""
    #cursor.execute(query)
    #Conn.commit()
except (Exception, psycopg2.Error) as error:
    print("Error while connecting to PostgreSQL", error)
finally:
    if Conn:
        cursor.close()
        Conn.close()
        print("PostgreSQL connection is closed")
#Conn.close()
```

```
table CREATED successfully
Result  [(1, 'BITS PILANI', 'PILANI,RAJASTHAN', 1)]
PostgreSQL connection is closed
```

In [170]:

```python
try:
    Conn = psycopg2.connect(host="localhost",
    database="test",
    user="postgres",
    password="password")
    cursor = Conn.cursor()
    # Executing a SQL query to insert data into  table
    insert_query ="""SELECT p.first_name,p.last_name,u.NAME FROM PERSONS p,University u WHE
#query='''\COPY persons(first_name, last_name, dob, email)
#FROM 'pers.csv' DELIMITER ',' CSV HEADER;'''
    cursor.execute(insert_query)
    record = cursor.fetchall()
    print("Result ", record)
    Conn.commit()
    print("Record inserted successfully")
#Conn.close()

#update record

    Conn.commit()
except (Exception, psycopg2.Error) as error:
    print("Error while connecting to PostgreSQL", error)
finally:
    if Conn:
        cursor.close()
        Conn.close()
        print("PostgreSQL connection is closed")
#Conn.close()
```

```
Result  [('susa', 'CHATURVEDI', 'BITS PILANI')]
Record inserted successfully
PostgreSQL connection is closed
```

In [ ]: