oracle2postgresql

July 7, 2023

[1]:
```
import psycopg2

conn = psycopg2.connect(database="TestDB", user = "postgres", password =␣
↪"system", host = "127.0.0.1", port = "5432")

print ("Opened database successfully")
```

```
Opened database successfully
```

[2]:
```
#Creating a cursor object using the cursor() method
cursor = conn.cursor()

#Doping EMPLOYEE table if already exists.
cursor.execute("DROP TABLE IF EXISTS EMPLOYEE")

#Creating table as per requirement
sql ='''CREATE TABLE EMPLOYEE(
   FIRST_NAME CHAR(20) NOT NULL,
   LAST_NAME CHAR(20),
   AGE INT,
   SEX CHAR(1),
   INCOME FLOAT
)'''
cursor.execute(sql)
print("Table created successfully........")
conn.commit()
#Closing the connection
conn.close()
```

```
Table created successfully…
```

[3]:
```
import pandas as pd
```

[4]:
```
data1=pd.read_csv("C:\\Users\ddaya\OneDrive\Documents\Python␣
↪programming\TestPostGreData.csv")
```

[5]:
```
df=pd.DataFrame(data1)
```

[6]:
```
df
```

[6]:
```
  first_name last_name  age sex  income
0    Mandeep      Kaur   32   F  100000
1    Sandeep     Singh   33   M  200000
```

[7]:
```
import csv
import psycopg2

conn = psycopg2.connect(database="TestDB", user = "postgres", password =␣
↪"system", host = "127.0.0.1", port = "5432")
cur = conn.cursor()
with open('C:\\Users\ddaya\OneDrive\Documents\Python␣
↪programming\TestPostGreData.csv', 'r') as f:
    reader = csv.reader(f)
    next(reader) # Skip the header row.
    for row in reader:
        cur.execute(
        "INSERT INTO employee VALUES (%s, %s, %s, %s, %s)",
        row
    )
conn.commit()
```

[8]:
```
df
```

[8]:
```
  first_name last_name  age sex  income
0    Mandeep      Kaur   32   F  100000
1    Sandeep     Singh   33   M  200000
```

[46]:
```
data2=pd.read_csv("C:\\Users\ddaya\OneDrive\Documents\Python␣
↪programming\TestPostGreData1.csv")
```

[47]:
```
df2=pd.DataFrame(data2)
```

[48]:
```
df2
```

[48]:
```
   DepartmentID  E_Name Group_Name
0             1     man         IT
1             2     san         AI
2             3    atul         DW
3             4    anil         IT
4             5  pravin         DW
5             6     anu         IT
```

[28]:
```
    for index, row in df.iterrows():
        cur.execute(
        "INSERT INTO Emp(DepartmentID,E_Name,Group_Name)VALUES (?,?,?)",
        row.DepartmentID,
        row.E_Name,
```

```
        row.Group_Name
      )
conn.commit()
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-28-724201426eac> in <module>
      2     cur.execute(
      3     "INSERT INTO Emp(DepartmentID,E_Name,Group_Name)VALUES (?,?,?)",
----> 4     row.DepartmentID,
      5     row.E_Name,
      6     row.Group_Name

~\anaconda3\lib\site-packages\pandas\core\generic.py in __getattr__(self, name)
   5463             if self._info_axis.
 ↪_can_hold_identifiers_and_holds_name(name):
   5464                 return self[name]
-> 5465             return object.__getattribute__(self, name)
   5466
   5467     def __setattr__(self, name: str, value) -> None:

AttributeError: 'Series' object has no attribute 'DepartmentID'
```

[74]:
```
df1.dtypes
```

[74]:
```
first_name    object
last_name     object
age            int64
sex           object
income         int64
dtype: object
```

[75]:
```
df1['age']=df1['age'].astype(int).astype(str)
df1['income']=df1['income'].astype(int).astype(str)
```

[76]:
```
df1.dtypes
```

[76]:
```
first_name    object
last_name     object
age           object
sex           object
income        object
dtype: object
```

[77]:
```
import psycopg2
```

```
conn = psycopg2.connect(database="TestDB", user = "postgres", password =␣
 ↪"system", host = "127.0.0.1", port = "5432")
cur = conn.cursor()
for index, row in df1.iterrows():
        cur.execute(
        "INSERT INTO public.Employee VALUES (%s,%s,%s,%s,%s)",row)
conn.commit()
```

[79]:
```
data3=pd.read_csv("C:\\Users\ddaya\OneDrive\Documents\Python␣
 ↪programming\TestPostGreData.csv")
```

[80]:
```
df3=pd.DataFrame(data3)
```

[81]:
```
df3
```

[81]:
```
  first_name last_name  age sex  income
0    Mandeep      Kaur   32   F  100000
1    Sandeep     Singh   33   M  200000
```

[83]:
```
df3.dtypes
```

[83]:
```
first_name    object
last_name     object
age            int64
sex           object
income         int64
dtype: object
```

[84]:
```
import psycopg2

conn = psycopg2.connect(database="TestDB", user = "postgres", password =␣
 ↪"system", host = "127.0.0.1", port = "5432")
cur = conn.cursor()
for index, row in df3.iterrows():
        cur.execute(
        "INSERT INTO public.Employee VALUES (%s,%s,%s,%s,%s)",row)
conn.commit()
```

[ ]:
```

```