# untitled

August 19, 2024

[1]:
```
pip install pymysql
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pymysql in
c:\users\  \appdata\roaming\python\python312\site-packages (1.1.1)
Note: you may need to restart the kernel to use updated packages.
```

[2]:
```
import pymysql
```

[3]:
```
conn = pymysql.connect(host='127.0.0.1', user='root', password='1597',␣
↪db='StoreData', charset='utf8')
```

[4]:
```
cur = conn.cursor()
```

[5]:
```
cur.execute('select * from users')
```

[5]:
```
0
```

[6]:
```
import numpy as np
import pandas as pd
import hashlib
```

[7]:
```
for i in range(100):
    name = 'ID_' + str(i)
    pwd = np.random.randint(100)
    mail = f'user{i}@example.com'
    pwd_hash = hashlib.sha256(str(pwd).encode()).hexdigest()

    cur.execute('INSERT INTO Users ( ,    , email) VALUES (%s, %s, %s)', (name,␣
↪pwd_hash, mail))
```

[8]:
```
conn.commit()
```

[9]:
```
import random
```

[10]:
```
alpa =␣
↪['A','B','C','D','E','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U','V','W
```

```
fee = random.sample(range(1000,2000),26)

brand = []
for i , j in zip(alpa , fee):
    brand.append([i,j])
```

[11]:
```
for i in brand:
    cur.execute('INSERT INTO Brands (  ,  ) VALUES (%s , %s)' , (i[0] ,␣
 ↪f"{i[1]:.2f}"))
```

[12]:
```
conn.commit()
```

[13]:
```
code = random.sample(range(1,27),26)
for i in range(74):
    code.append(random.randint(1,26))

code_fi = []
code_final = []
for i in code:
    code_fi.append(i - 1)
for i in code_fi:
    code_final.append(alpa[i])
print(code_final)
```

```
['Q', 'U', 'V', 'H', 'Z', 'T', 'F', 'O', 'R', 'N', 'A', 'I', 'M', 'D', 'S', 'K',
'X', 'L', 'W', 'P', 'Y', 'E', 'G', 'J', 'B', 'C', 'L', 'K', 'P', 'Q', 'M', 'L',
'O', 'J', 'F', 'U', 'U', 'Y', 'Q', 'N', 'F', 'O', 'Q', 'U', 'E', 'Z', 'B', 'O',
'G', 'M', 'D', 'A', 'J', 'A', 'C', 'X', 'Z', 'R', 'D', 'Z', 'R', 'H', 'O', 'R',
'A', 'Z', 'A', 'B', 'V', 'P', 'E', 'V', 'A', 'L', 'T', 'T', 'H', 'X', 'A', 'O',
'E', 'B', 'X', 'Y', 'T', 'S', 'Y', 'P', 'D', 'E', 'W', 'H', 'C', 'F', 'H', 'A',
'C', 'G', 'V', 'S']
```

[14]:
```
dic = {'A' : 0 , 'B' : 0 , 'C' : 0 , 'D' : 0 , 'E' : 0 , 'F' : 0 , 'G' : 0 ,␣
 ↪'H' : 0 , 'I' : 0 , 'J' : 0 , 'K' : 0 ,
       'L' : 0 , 'M' : 0 , 'N' : 0 , 'O' : 0 , 'P' : 0 , 'Q' : 0 , 'R' : 0 ,␣
 ↪'S' : 0 , 'T' : 0 , 'U' : 0 , 'V' : 0 ,
       'W' : 0 , 'X' : 0 , 'Y' : 0 , 'Z' : 0}

result = []
for i in code_final:
    result.append(i + str(dic[i]))
    dic[i] += 1
print(result)
```

```
['Q0', 'U0', 'V0', 'H0', 'Z0', 'T0', 'F0', 'O0', 'R0', 'N0', 'A0', 'I0', 'M0',
'D0', 'S0', 'K0', 'X0', 'L0', 'W0', 'P0', 'Y0', 'E0', 'G0', 'J0', 'B0', 'C0',
```

```
'L1', 'K1', 'P1', 'Q1', 'M1', 'L2', 'O1', 'J1', 'F1', 'U1', 'U2', 'Y1', 'Q2',
'N1', 'F2', 'O2', 'Q3', 'U3', 'E1', 'Z1', 'B1', 'O3', 'G1', 'M2', 'D1', 'A1',
'J2', 'A2', 'C1', 'X1', 'Z2', 'R1', 'D2', 'Z3', 'R2', 'H1', 'O4', 'R3', 'A3',
'Z4', 'A4', 'B2', 'V1', 'P2', 'E2', 'V2', 'A5', 'L3', 'T1', 'T2', 'H2', 'X2',
'A6', 'O5', 'E3', 'B3', 'X3', 'Y2', 'T3', 'S1', 'Y3', 'P3', 'D3', 'E4', 'W1',
'H3', 'C2', 'F3', 'H4', 'A7', 'C3', 'G2', 'V3', 'S2']
```

[15]:
```
for i in result:
    pay = random.randint(20000 , 100000)
    product = 'product_' + i
    cur.execute('INSERT INTO Products (    ,     ,     ,  _ ) VALUES (%s , %s ,␣
 ↪%s , %s)' ,
                (i , product , alpa.index(i[0]) + 1 , f"{pay:.4f}"))
```

[16]:
```
conn.commit()
```

[17]:
```
num = random.sample(range(1,101),100)
size = ['SS','S','M','L','XL','XXL','Free']
for i in num:
    quantity = random.randint(0,20)
    sizes = size[random.randint(0,6)]
    cur.execute('INSERT INTO ProductOptions (    ,     ,    ) VALUES (%s , %s ,␣
 ↪%s)' ,
                (i , sizes , quantity))
```

[18]:
```
conn.commit()
```

[19]:
```
start_date='20240101'
end_date='20240818'
date_list=pd.date_range(start=start_date, end=end_date, freq='D')
print(date_list)
```

```
DatetimeIndex(['2024-01-01', '2024-01-02', '2024-01-03', '2024-01-04',
               '2024-01-05', '2024-01-06', '2024-01-07', '2024-01-08',
               '2024-01-09', '2024-01-10',
               …
               '2024-08-09', '2024-08-10', '2024-08-11', '2024-08-12',
               '2024-08-13', '2024-08-14', '2024-08-15', '2024-08-16',
               '2024-08-17', '2024-08-18'],
              dtype='datetime64[ns]', length=231, freq='D')
```

[20]:
```
number = random.sample(range(0,231),231)
```

[21]:
```
date_list_fi = list(date_list)
```

[22]:
```
for i in range(769):
    number.append(random.randint(0,230))
```

[24]:
```
np.max(number)
```

[24]: 230

[25]:
```
date_list_final = []
for i in number:
    date_list_final.append(date_list_fi[i])
```

[26]:
```
date_list_final = np.sort(date_list_final)
```

[27]:
```
id = []
for i in range(100):
    id.append('id_' + str(i))
```

[28]:
```
status = ['Pending' , 'SHIPPED']
```

[ ]:
```

```

[29]:
```
for i in date_list_final:
    User_id = random.randint(0,99)
    ST = random.randint(0,1)
    price = random.randint(0 , 100000)
    fee = random.randint(0 , 30000)
    cur.execute('INSERT INTO Orders ( ID ,    ,    ,    ,    ,  ) VALUES (%s␣
 ↪, %s , %s , %s , %s , %s)' ,
                (id[User_id] , i , '----' , status[ST] , f"{price:.2f}" ,␣
 ↪f"{fee:.2f}"))
```

[30]:
```
conn.commit()
```

[31]:
```
su = [1,2,3,4,5]
```

[32]:
```
nu = []
for i in range(1,1001):
    nu.append(i)
```

[33]:
```
op = np.arange(1,101)
```

[34]:
```
for i in range(2000):
    nu.append(random.randint(1,1000))
```

[35]:
```
len(nu)
```

[35]: 3000

[36]:
```
nu = np.sort(nu)
```

[37]:
```
for i in nu:
    op_num = random.randint(0,99)
    su_num = random.randint(0,4)
    cur.execute('INSERT INTO OrderItems (    ,     ,  ) VALUES (%s , %s , %s)' ,
                (i , op[op_num] , su[su_num]))
```

[38]:
```
conn.commit()
```

[ ]:
```

```

[39]:
```
conn.close()
```