**Python Version : 3.12**

**MySql Version : 8.0**

**IDE :- PyCharm**

**MySql Credentials:-**

**User : root**

**Password : ---------**

**Database : Event\_project**

**Tables Name: society\_data, area\_data, resident, Near\_data**

1. **society\_data - Collected from society**
2. **area\_data - Marathi Data**
3. **Resident - 78k data + area\_data**
4. **Near\_data**

**Python Libraries :**

1. **pandas**
2. **Numpy**
3. **mysql.connector**

***Python Scripts for project Data***

1. **Import Data in NEAR\_DATA Table**

import pandas as pd  
import mysql.connector  
  
excel\_file\_path = 'output.xlsx'  
  
data = pd.read\_excel(excel\_file\_path)  
  
db\_connection = mysql.connector.connect(  
 host='localhost',  
 user='root',  
 password='-----',  
 database='Event\_project'  
)  
  
cursor = db\_connection.cursor()  
  
create\_table\_query = '''  
CREATE TABLE IF NOT EXISTS near\_DATA (  
 id INT AUTO\_INCREMENT PRIMARY KEY,  
 name VARCHAR(2000),  
 Mobile\_No TEXT,  
 Address TEXT,  
 Event\_Name TEXT  
)  
'''  
cursor.execute(create\_table\_query)  
  
for \_, row in data.iterrows():  
 row = row.where(pd.notnull(row), None)  
  
 insert\_query = '''  
 INSERT INTO near\_DATA (name, First\_Name, Middle\_Name, Last\_Name, Mobile\_No, Address, Event\_Name)   
 VALUES (%s, %s, %s, %s,%s,%s,%s)  
 '''  
 cursor.execute(insert\_query, (row['Name'],row['First\_Name'],row['Middle\_Name'],row['Last\_Name'], row['Mobile\_No'], row['Address'], row['Event\_Name']))  
  
db\_connection.commit()  
  
cursor.close()  
db\_connection.close()

1. **Split the full name in separate columns (First Name, Middle Name, Last Name)**

import pandas as pd  
  
def separate\_names(name):  
 parts = name.split()  
 if len(parts) == 1:  
 return pd.Series([parts[0], '', ''])  
 elif len(parts) == 2:  
 return pd.Series([parts[0], '', parts[1]])  
 elif len(parts) == 3:  
 return pd.Series([parts[0], parts[1], parts[2]])  
 elif len(parts) == 4:  
 return pd.Series([parts[0], f"{parts[1]} {parts[2]}", parts[3]])  
 else:  
 return pd.Series([name, '', ''])  
  
df = pd.read\_excel('Master Data.xlsx')  
  
df[['First Name', 'Middle Name', 'Last Name']] = df['Name'].apply(separate\_names)  
  
df.to\_excel('output.xlsx', index=False)

1. **Import Near Data in resident Table**

import pandas as pd

import mysql.connector

import numpy as np

site\_df = pd.read\_excel("area.xlsx")

site\_df.replace({np.nan: None}, inplace=True)

db\_config = {

    'host': 'localhost',

    'user': 'root',

    'password': '------',

    'database': 'Event\_project',

}

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

insert\_query = """

    INSERT INTO resident (

        uid, color,assembly, part\_no, booth\_no, srno, name, First\_Name, Middle\_Name, Last\_Name, Full\_Name,First\_and\_last\_Name , Last\_and\_First\_Name, Gender, Age,

        Repeated, Dead, Mobile\_1, Mobile\_2, Star\_Voter, Personnel, Cast, Influence, New\_Address, Society, Flat\_No, Party\_Name,

        Voter\_Id, Booth, Address, Addresschange, House\_No, Extraz\_Check\_1, Assembly\_No, last\_modified\_by, sa

    ) VALUES (

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s

    )

"""

for index, row in site\_df.iterrows():

    insert\_values = tuple(row)

    try:

        cursor.execute(insert\_query, insert\_values)

        connection.commit()  # Commit after each successful insertion

    except mysql.connector.Error as err:

        print(f"Error inserting data: {err}")

        print(f"Failed data: {insert\_values}")

cursor.close()

connection.close()

1. **Import Data into society\_data**

import pandas as pd

import mysql.connector

import numpy as np

site\_df = pd.read\_csv("April.csv")

site\_df.replace({np.nan: None}, inplace=True)

db\_config = {

    'host': 'localhost',

    'user': 'root',

    'password': '------',

    'database': 'Event\_project',

    'charset': 'utf8mb4',

    'collation': 'utf8mb4\_unicode\_ci'

}

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

insert\_query = """

    INSERT INTO resident (

        id, color, assembly, part\_no, booth\_no, srno, name, First\_Name, Middle\_Name, Last\_Name, Gender, Age,

        Repeated, Dead, Mobile\_1, Mobile\_2, Star\_Voter, Personnel, Cast, Influence, New\_Address, Society, Flat\_No, Party\_Name,

        Voter\_Id, Booth, Address, Addresschange, House\_No, Extraz\_Check\_1, Assembly\_No, last\_modified\_by, sa

    ) VALUES (

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s

    )

"""

check\_query = "SELECT COUNT(\*) FROM resident WHERE name = %s"

for index, row in site\_df.iterrows():

    name = row['name']

    cursor.execute(check\_query, (name,))

    result = cursor.fetchone()

    if result[0] == 0:

        insert\_values = tuple(row)

        try:

            cursor.execute(insert\_query, insert\_values)

        except mysql.connector.Error as err:

            print(f"Error: {err}")

            continue

connection.commit()

cursor.close()

connection.close()

1. **Import 70k data in the resident table**

import pandas as pd

import mysql.connector

import numpy as np

site\_df = pd.read\_csv("70k data.csv")

site\_df.replace({np.nan: None}, inplace=True)

db\_config = {

    'host': 'localhost',

    'user': 'root',

    'password': '------',

    'database': 'Event\_project',

    'charset': 'utf8mb4',

    'collation': 'utf8mb4\_unicode\_ci'

}

connection = mysql.connector.connect(\*\*db\_config)

cursor = connection.cursor()

insert\_query = """

    INSERT INTO resident (

        id, color,assembly, part\_no, booth\_no, srno, name, First\_Name, Middle\_Name, Last\_Name, Gender, Age,

        Repeated, Dead, Mobile\_1, Mobile\_2, Star\_Voter, Personnel, Cast, Influence, New\_Address, Society, Flat\_No, Party\_Name,

        Voter\_Id, Booth, Address, Addresschange, House\_No, Extraz\_Check\_1, Assembly\_No, last\_modified\_by, sa

    ) VALUES (

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s, %s, %s, %s, %s, %s, %s, %s,

        %s, %s, %s

    )

"""

for index, row in site\_df.iterrows():

    insert\_values = tuple(row)

    try:

        cursor.execute(insert\_query, insert\_values)

    except mysql.connector.Error as err:

        print(f"Voter\_id")

        continue

connection.commit()

cursor.close()

connection.close()