In [2]:	<pre># path to get aggregated transaction data path1 = r'C:\Users\91994\Desktop\phonepe\pulse\data\aggregated\transaction\country\india\state' # create an empty list to store data data = [] # loop through directories for st_dir in os.listdir(path1):     st_path = os.path.join(path1, st_dir)     for vr dir in os.listdir(st_path):</pre>
	<pre>for yr_dir in os.listdir(st_path):     yr_path = os.path.join(st_path, yr_dir)     for quart_file in os.listdir(yr_path):         quart_path = os.path.join(yr_path, quart_file)         with open(quart_path, 'r') as f:             quart_data = json.load(f)     for trans in quart_data['data']['transactionData']:         name = trans['name']</pre>
	<pre>count = trans['paymentInstruments'][0]['count'] amount = trans['paymentInstruments'][0]['amount'] data.append({     'State': st_dir,     'Year': yr_dir,     'Quarter': int(os.path.splitext(quart_file)[0]),     'Transaction_type': name,</pre>
0.0+[2]+	'Transaction_count': count,
Out[2]:	O         andaman-&-nicobar-islands         2018         1         Recharge & bill payments         4200         1.845307e+06           1         andaman-&-nicobar-islands         2018         1         Peer-to-peer payments         1871         1.213866e+07           2         andaman-&-nicobar-islands         2018         1         Merchant payments         298         4.525072e+05           3         andaman-&-nicobar-islands         2018         1         Financial Services         33         1.060142e+04
In [3]: In [4]:	<pre>4 andaman-&amp;-nicobar-islands 2018 1 Others 256 1.846899e+05  df1_agg_trans.to_csv('Agg_trans.csv',index = False)  # path to get aggregated user data path2 = r'C:\Users\91994\Desktop\phonepe\pulse\data\aggregated\user\country\india\state'</pre>
	<pre># create an empty list to store data data = []  # loop through directories for st_dir in os.listdir(path2):     st_path = os.path.join(path2, st_dir)</pre>
	<pre>for yr_dir in os.listdir(st_path):     yr_path = os.path.join(st_path, yr_dir)     for quart_file in os.listdir(yr_path):         quart_path = os.path.join(yr_path, quart_file)         with open(quart_path, 'r') as f:             quart_data = json.load(f)         try:</pre>
	<pre>for user in quart_data['data']['usersByDevice']:     brand = user['brand']     count = user['count']     percentage = user['percentage']     data.append({         'State': st_dir,         'Year': yr_dir,         'Quarter': int(os.path.splitext(quart_file)[0]),</pre>
	<pre></pre>
Out[4]:	# create a dataframe from the data  df2_agg_user = pd.DataFrame(data)  df2_agg_user.head(5)  State Year Quarter Brand Brand_count Brand_percentage  0 andaman-&-nicobar-islands 2018 1 Xiaomi 1665 0.247033  1 andaman & nicobar islands 2018 1 Sampura 1445 0.314303
	1 andaman-&-nicobar-islands       2018       1 Samsung       1445       0.214392         2 andaman-&-nicobar-islands       2018       1 Vivo       982       0.145697         3 andaman-&-nicobar-islands       2018       1 Oppo       501       0.074332         4 andaman-&-nicobar-islands       2018       1 OnePlus       332       0.049258
In [5]: In [6]:	<pre># path to get map transaction data path3 = r'C:\Users\91994\Desktop\phonepe\pulse\data\map\transaction\hover\country\india\state' # create an empty list to store data data = [] # loop through directories</pre>
	<pre>for st_dir in os.listdir(path3):     st_path = os.path.join(path3, st_dir)     for yr_dir in os.listdir(st_path):         yr_path = os.path.join(st_path, yr_dir)         for quart_file in os.listdir(yr_path):             quart_path = os.path.join(yr_path, quart_file)             with open(quart_path, 'r') as f :</pre>
	<pre>quart_data = json.load(f) for trans in quart_data['data']['hoverDataList']:     district = trans['name']     count = trans['metric'][0]['count']     amount = trans['metric'][0]['amount']     data.append({</pre>
	'Year': yr_dir,
Out[6]:	df3_map_trans.head(5)  State Year Quarter District Transaction_count Transaction_amount  o andaman-&-nicobar-islands 2018 1 north and middle andaman district 442 9.316631e+05  andaman-&-nicobar-islands 2018 1 south andaman district 5688 1.256025e+07
In [7]:	2 andaman-&-nicobar-islands 2018 1 nicobars district 528 1.139849e+06 3 andaman-&-nicobar-islands 2018 2 north and middle andaman district 825 1.317863e+06 4 andaman-&-nicobar-islands 2018 2 south andaman district 9395 2.394824e+07  df3_map_trans.to_csv('Map_trans.csv',index = False)
In [8]:	<pre># path to get map user data path4 = r'C:\Users\91994\Desktop\phonepe\pulse\data\map\user\hover\country\india\state' # create an empty list to store data data = [] # loop through directories</pre>
	<pre>for st_dir in os.listdir(path4):     st_path = os.path.join(path4, st_dir)     for yr_dir in os.listdir(st_path):         yr_path = os.path.join(st_path, yr_dir)         for quart_file in os.listdir(yr_path):             quart_path = os.path.join(yr_path, quart_file)             with open(quart_path, 'r') as f:             quart_data = json.load(f)</pre>
	<pre>for district in quart_data['data']['hoverData']:     registered_user = quart_data['data']['hoverData'][district]["registeredUsers"]     app_opening = quart_data['data']['hoverData'][district]["appOpens"]     data.append({         'State': st_dir,         'Year': yr_dir,         'Quarter': int(os.path.splitext(quart_file)[0]),</pre>
	<pre>'District': district,</pre>
Out[8]:	State Year Quarter District Registered_user App_opening  o andaman-&-nicobar-islands 2018 1 north and middle andaman district 632 0  andaman-&-nicobar-islands 2018 1 south andaman district 5846 0  andaman-&-nicobar-islands 2018 1 nicobars district 262 0
In [9]:	3 andaman-&-nicobar-islands 2018 2 north and middle andaman district 911 0 4 andaman-&-nicobar-islands 2018 2 south andaman district 8143 0  df4_map_user.to_csv('Map_user.csv',index = False)
In [10]:	<pre># path to get top transaction data path5 = r'C:\Users\91994\Desktop\phonepe\pulse\data\top\transaction\country\india\state'  # create an empty list to store data data = []  # loop through directories</pre>
	<pre>for st_dir in os.listdir(path5):     st_path = os.path.join(path5, st_dir)     for yr_dir in os.listdir(st_path):         yr_path = os.path.join(st_path, yr_dir)         for quart_file in os.listdir(yr_path):             quart_path = os.path.join(yr_path, quart_file)             with open(quart_path, 'r') as f :</pre>
	<pre>quart_data = json.load(f) for trans in quart_data['data']['pincodes']:     name = trans['entityName']     count = trans['metric']['count']     amount = trans['metric']['amount']     data.append({</pre>
	'Quarter': int(os.path.splitext(quart_file)[0]),
Out[10]:	df5_top_trans = pd.DataFrame(data) df5_top_trans.head(5)  State
In [11]:	2 andaman-&-nicobar-islands 2018
	<pre># path to get top user data path6 = r'C:\Users\91994\Desktop\phonepe\pulse\data\top\user\country\india\state'  # create an empty list to store data data = []</pre>
	<pre># loop through state directories for st_dir in os.listdir(path6):     st_path = os.path.join(path6, st_dir)     for yr_dir in os.listdir(st_path):         yr_path = os.path.join(st_path, yr_dir)         for quart_file in os.listdir(yr_path):              quart_path = os.path.join(yr_path, quart_file)</pre>
	<pre>with open(quart_path, 'r') as f:     quart_data = json.load(f) # loop through district data for district in quart_data['data']['pincodes']:     name = district ['name']     users = district ['registeredUsers']     data.append({</pre>
	<pre>'State': st_dir,     'Year': yr_dir,     'Quarter': int(os.path.splitext(quart_file)[0]),     'Pincode': name,     'Registered_user': users, }) # create a dataframe from the data</pre>
Out[12]:	df6_top_user = pd.DataFrame(data) df6_top_user.head(5)  State Year Quarter Pincode Registered_user  o andaman-&-nicobar-islands 2018 1 744103 1608
	1 andaman-&-nicobar-islands       2018       1 744101       1108         2 andaman-&-nicobar-islands       2018       1 744105       1075         3 andaman-&-nicobar-islands       2018       1 744102       1006         4 andaman-&-nicobar-islands       2018       1 744104       272
In [13]: In [14]:	<pre>df6_top_user.to_csv('Top_user.csv',index = False)  import mysql.connector  mydb = mysql.connector.connect(     host="localhost",     user="root",</pre>
	<pre>password="Nila123@#" )  mycursor = mydb.cursor(buffered=True)  mycursor.execute("CREATE DATABASE IF NOT EXISTS Phonepe") mycursor.execute("USE Phonepe")</pre>
In [15]:	# Loop through each row in the DataFrame and insert it into the MySQL table  mycursor.execute('CREATE TABLE Agg_Transaction(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, State VARCHAR(100), Year INT, Quarter INT, Transaction_type VARCHAR(100), Transaction_count IN  for i, row in df1_agg_trans.iterrows():     sql = "INSERT INTO Agg_Transaction (State, Year, Quarter, Transaction_type, Transaction_count, Transaction_amount) VALUES (%s, %s, %s, %s, %s, %s, %s, %s)"
	<pre>val = (row['State'], row['Year'], row['Quarter'], row['Transaction_type'], row['Transaction_count'], row['Transaction_amount']) mycursor.execute(sql, val) # Commit the changes to the database mydb.commit()</pre>
In [16]:	<pre>mycursor.execute('CREATE TABLE Agg_User(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,State VARCHAR(100),Year INT,Quarter INT, Brand VARCHAR(100),Brand_count INT,Brand_percentage FLOAT  for i, row in df2_agg_user.iterrows():     sql = "INSERT INTO Agg_User (State, Year, Quarter, Brand , Brand_count , Brand_percentage ) VALUES (%s, %s, %s, %s, %s, %s, %s)"     val = (row['State'], row['Year'], row['Brand'], row['Brand_count'], row['Brand_percentage'])      mycursor.execute(sql, val)</pre>
In [17]:	# Commit the changes to the database mydb.commit()  mycursor.execute('CREATE TABLE MAP_Transaction(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY, State VARCHAR(100), Year INT, Quarter INT, district VARCHAR(100), Transaction_count INT, Transfer i, row in df3_map_trans.iterrows():
	sql = "INSERT INTO MAP_Transaction (State, Year, Quarter, District , Transaction_count ,Transaction_amount ) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s,
In [18]:	<pre>mycursor.execute('CREATE TABLE MAP_User(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,State VARCHAR(100),Year INT,Quarter INT, District VARCHAR(100),Registered_user INT, App_opening Interior of the property of the proper</pre>
In [19]:	<pre>mycursor.execute(sql, val)  # Commit the changes to the database mydb.commit()  mycursor.execute('CREATE TABLE TOP_Transaction(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,State VARCHAR(100),Year INT,Quarter INT, Pincode INT, Transaction_count INT, Transaction_auto_increment in the changes to the database mydb.commit()</pre>
	<pre>for i, row in df5_top_trans.iterrows():     sql = "INSERT INTO TOP_Transaction (State, Year, Quarter, Pincode , Transaction_count ,Transaction_amount ) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s,</pre>
In [20]:	<pre>mydb.commit()  mycursor.execute('CREATE TABLE TOP_User(Id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,State VARCHAR(100),Year INT,Quarter INT, Pincode INT,Registered_user INT)')  for i, row in df6_top_user.iterrows():     sql = "INSERT INTO TOP_User (State, Year, Quarter, Pincode , Registered_user ) VALUES (%s, %s, %s, %s, %s, %s)"     val = (row['State'], row['Year'], row['Pincode'], row['Registered_user'])</pre>
	<pre>mycursor.execute(sql, val)  # Commit the changes to the database mydb.commit()</pre>

import os
import json
import pandas as pd