**ARMY PUBLIC SCHOOL, AHMEDNAGAR**

A Project

On

**AIRPORT Database management**

For

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As a part of Informatics Practices Course

(065)

Submitted by:

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Class XII A1

Under the Guidance of

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**Rishabh Jain**

**INTRODUCTION**

Believe it or not but IT applications are indispensable part of our lives. In this digital age we can’t imagine a life without IT applications that makes everything around us accessible easily.

For example we can easily:

* Access financial information , weather forecasts , latest news etc.;
* Manage our daily activities of scheduling , preparing timetables, appointments etc.;
* Communicate or conduct video conference for businesses;
* Conduct our financial transactions;
* Entertain and amuse ourselves;
* See different kinds of data in varied visualized forms;

If we go by the estimates of Portion Research there will be around 4.4 billion mobile app users across the globe by 2017, with a compound annual growth rate of 29.8 per cent each year from the end of 2012 when there were only 1.2 billion mobile app users.

Such in the scale of demands, number of entrepreneurs, app publishers, sellers, app marketers and developers dealing and doing mobile app development business is also elevating, turning mobile app industry a booming and zooming markets.

**MySQL Coding**

CREATION OF PASSENGER TABLE

create table passenger(

PassengerID int(8) primary key,

PassengerName char(25) not null,

Age int(3),

Gender char(1),

FlightNo varchar(6) not null);

desc passenger;

+---------------+------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+------------+------+-----+---------+-------+

| PassengerID | int(8) | NO | PRI | NULL | |

| PassengerName | char(25) | NO | | NULL | |

| Age | int(3) | YES | | NULL | |

| Gender | char(1) | YES | | NULL | |

| FlightNo | varchar(6) | NO | | NULL | |

+---------------+------------+------+-----+---------+-------+

CREATION OF FLIGHT TABLE

create table flight(

-> FlightNo varchar(6) references passenger(FlightNo),

-> Airlines char(10) not null,

-> Destination char(10) not null);

desc flight;

+-------------+------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+------------+------+-----+---------+-------+

| FlightNo | varchar(6) | YES | | NULL | |

| Airlines | char(10) | NO | | NULL | |

| Destination | char(10) | NO | | NULL | |

+-------------+------------+------+-----+---------+-------+

INSERTING VALUES INTO FLIGHT TABLE

mysql> insert into flight values('AI5674','Air India','New Delhi');

Query OK, 1 row affected (0.13 sec)

mysql> insert into flight values('IG6678','IndiGo','New Delhi');

Query OK, 1 row affected (0.12 sec)

mysql> insert into flight values('AI9975','Air India','New Delhi');

Query OK, 1 row affected (0.13 sec)

mysql> insert into flight values('AI3625','Air India','New Delhi');

Query OK, 1 row affected (0.02 sec)

mysql> insert into flight values('AI8281','Air India','Chennai');

Query OK, 1 row affected (0.12 sec)

mysql> insert into flight values('IG8179','IndiGo','Chennai');

Query OK, 1 row affected (0.10 sec)

mysql> insert into flight values('VS1910','Vistara','Chennai');

Query OK, 1 row affected (0.13 sec)

mysql> insert into flight values('VS8271','Vistara','Chennai');

Query OK, 1 row affected (0.12 sec)

mysql> insert into flight values('VS7718','Vistara','New Delhi');

Query OK, 1 row affected (0.12 sec)

mysql> select \* from flight;

+-----------+------------+--------------+

| FlightNo | Airlines | Destination |

+-----------+------------+--------------+

| AI5674 | Air India | New Delhi |

| IG6678 | IndiGo | New Delhi |

| AI9975 | Air India | New Delhi |

| AI3625 | Air India | New Delhi |

| AI8281 | Air India | Chennai |

| IG8179 | IndiGo | Chennai |

| VS1910 | Vistara | Chennai |

| VS8271 | Vistara | Chennai |

| VS7718 | Vistara | New Delhi |

+-----------+-----------+---------------+

9 rows in set (0.00 sec)

INSERTING VALUES INTO PASSENGER TABLE

mysql> insert into passenger values('0001','Rishabh',16,'M','AI5674');

Query OK, 1 row affected (0.14 sec)

mysql> insert into passenger values('0002','Abhishek',24,'M','IG8179');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0003','Aayush',18,'M','VS8271');

Query OK, 1 row affected (0.04 sec)

mysql> insert into passenger values('0004','Seher',21,'F','VS7718');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0005','Vishakha',30,'F','IG8179');

Query OK, 1 row affected (0.04 sec)

mysql> insert into passenger values('0006','Saksham',30,'M','AI5674');

Query OK, 1 row affected (0.11 sec)

mysql> insert into passenger values('0007','Sambhav',56,'M','AI9975');

Query OK, 1 row affected (0.03 sec)

mysql> insert into passenger values('0008','Shagun',37,'F','IG6678');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0009','Shobha',65,'F','VS1910');

Query OK, 1 row affected (0.55 sec)

mysql> insert into passenger values('0010','Sanjay',46,'M','AI8281');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0011','Pradeep',78,'M','AI3625');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0012','Unnati',12,'F','AI3625');

Query OK, 1 row affected (0.14 sec)

mysql> insert into passenger values('0013','Khushi',26,'F','AI8281');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0014','Garima',44,'F','AI5674');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0015','Himanshu',33,'M','VS7718');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0016','Nilansha',16,'F','VS8271');

Query OK, 1 row affected (0.57 sec)

mysql> insert into passenger values('0017','Shaurya',17,'M','AI9975');

Query OK, 1 row affected (0.07 sec)

mysql> insert into passenger values('0018','Abreesh',19,'M','VS7718');

Query OK, 1 row affected (0.02 sec)

mysql> insert into passenger values('0019','Pranav',78,'M','AI9975');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0020','Anuvrinda',23,'F','IG6678');

Query OK, 1 row affected (0.37 sec)

mysql> insert into passenger values('0021','Manasvi',55,'F','VS1910');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0022','Aryama',16,'F','AI5674');

Query OK, 1 row affected (0.14 sec)

mysql> insert into passenger values('0023','Ajay',51,'M','AI8281');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0024','Shobit',36,'M','AI9975');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0025','Yagya',14,'M','IG6678');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0026','Soumil',15,'M','IG6678');

Query OK, 1 row affected (0.04 sec)

mysql> insert into passenger values('0027','Suhana',34,'F','VS8271');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0028','Akansha',23,'F','VS8271');

Query OK, 1 row affected (0.07 sec)

mysql> insert into passenger values('0029','Megha',29,'F','AI8281');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0027','Suhana',34,'F','VS8271');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0028','Akansha',23,'F','VS8271');

Query OK, 1 row affected (0.07 sec)

mysql> insert into passenger values('0029','Megha',29,'F','AI8281');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0030','Sarthak',05,'M','AI5674');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0031','Bina',98,'F','AI9975');

Query OK, 1 row affected (0.10 sec)

mysql> insert into passenger values('0032','Chauhan',29,'M','IG6678');

Query OK, 1 row affected (0.38 sec)

mysql> insert into passenger values('0033','Dharmendra',29,'M','IG6678');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0034','Vijay',89,'M','VS8271');

Query OK, 1 row affected (0.37 sec)

mysql> insert into passenger values('0035','Komal',49,'F','AI5674');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0036','Arushi',49,'F','AI5674');

Query OK, 1 row affected (0.05 sec)

mysql> insert into passenger values('0037','Devika',28,'F','AI3625');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0038','Harsimran',28,'M','IG8179');

Query OK, 1 row affected (0.13 sec)

mysql> insert into passenger values('0039','Parth',15,'M','AI8281');

Query OK, 1 row affected (0.12 sec)

mysql> insert into passenger values('0040','Nilesh',33,'M','AI5674');

Query OK, 1 row affected (0.13 sec)

mysql> select \* from passenger;

+-------------+---------------+------+--------+----------+

| PassengerID | PassengerName | Age | Gender | FlightNo |

+-------------+---------------+------+--------+----------+

| 1 | Rishabh | 16 | M | AI5674 |

| 2 | Abhishek | 24 | M | IG8179 |

| 3 | Aayush | 18 | M | VS8271 |

| 4 | Seher | 21 | F | VS7718 |

| 5 | Vishakha | 30 | F | IG8179 |

| 6 | Saksham | 30 | M | AI5674 |

| 7 | Sambhav | 56 | M | AI9975 |

| 8 | Shagun | 37 | F | IG6678 |

| 9 | Shobha | 65 | F | VS1910 |

| 10 | Sanjay | 46 | M | AI8281 |

| 11 | Pradeep | 78 | M | AI3625 |

| 12 | Unnati | 12 | F | AI3625 |

| 13 | Khushi | 26 | F | AI8281 |

| 14 | Garima | 44 | F | AI5674 |

| 15 | Himanshu | 33 | M | VS7718 |

| 16 | Nilansha | 16 | F | VS8271 |

| 17 | Shaurya | 17 | M | AI9975 |

| 18 | Abreesh | 19 | M | VS7718 |

| 19 | Pranav | 78 | M | AI9975 |

| 20 | Anuvrinda | 23 | F | IG6678 |

| 21 | Manasvi | 55 | F | VS1910 |

| 22 | Aryama | 16 | F | AI5674 |

| 23 | Ajay | 51 | M | AI8281 |

| 24 | Shobit | 36 | M | AI9975 |

| 25 | Yagya | 14 | M | IG6678 |

| 26 | Soumil | 15 | M | IG6678 |

| 27 | Suhana | 34 | F | VS8271 |

| 28 | Akansha | 23 | F | VS8271 |

| 29 | Megha | 29 | F | AI8281 |

| 30 | Sarthak | 5 | M | AI5674 |

| 31 | Bina | 98 | F | AI9975 |

| 32 |Tejaswini | 29 | F | IG6678 |

| 33 | Dharmendra | 29 | M | IG6678 |

| 34 | Vijay | 89 | M | VS8271 |

| 35 | Komal | 49 | F | AI5674 |

| 36 | Arushi | 49 | F | AI5674 |

| 37 | Devika | 28 | F | AI3625 |

| 38 | Harsimran | 28 | M | IG8179 |

| 39 | Parth | 15 | M | AI8281 |

| 40 | Nilesh | 33 | M | AI5674 |

+-------------+---------------+------+--------+----------+

40 rows in set (0.00 sec)

JOINED TABLE

mysql> select passengerid,passengername,age,gender,f.flightno,airlines,destination from flight f,passenger p

-> where p.flightno=f.flightno;

+-------------+---------------+------+--------+----------+-----------+-------------+

| passengerid | passengername | age | gender | flightno | airlines | destination |

+-------------+---------------+------+--------+----------+-----------+-------------+

| 1 | Rishabh | 16 | M | AI5674 | Air India | New Delhi |

| 2 | Abhishek | 24 | M | IG8179 | IndiGo | Chennai |

| 3 | Aayush | 18 | M | VS8271 | Vistara | Chennai |

| 4 | Seher | 21 | F | VS7718 | Vistara | New Delhi |

| 5 | Vishakha | 30 | F | IG8179 | IndiGo | Chennai |

| 6 | Saksham | 30 | M | AI5674 | Air India | New Delhi |

| 7 | Sambhav | 56 | M | AI9975 | Air India | New Delhi |

| 8 | Shagun | 37 | F | IG6678 | IndiGo | New Delhi |

| 9 | Shobha | 65 | F | VS1910 | Vistara | Chennai |

| 10 | Sanjay | 46 | M | AI8281 | Air India | Chennai |

| 11 | Pradeep | 78 | M | AI3625 | Air India | New Delhi |

| 12 | Unnati | 12 | F | AI3625 | Air India | New Delhi |

| 13 | Khushi | 26 | F | AI8281 | Air India | Chennai |

| 14 | Garima | 44 | F | AI5674 | Air India | New Delhi |

| 15 | Himanshu | 33 | M | VS7718 | Vistara | New Delhi |

| 16 | Nilansha | 40 | F | VS8271 | Vistara | Chennai |

| 17 | Shaurya | 17 | M | AI9975 | Air India | New Delhi |

| 18 | Abreesh | 19 | M | VS7718 | Vistara | New Delhi |

| 19 | Pranav | 78 | M | AI9975 | Air India | New Delhi |

| 20 | Anuvrinda | 23 | F | IG6678 | IndiGo | New Delhi |

| 21 | Manasvi | 55 | F | VS1910 | Vistara | Chennai |

| 22 | Aryama | 16 | F | AI5674 | Air India | New Delhi |

| 23 | Ajay | 51 | M | AI8281 | Air India | Chennai |

| 24 | Shobit | 36 | M | AI9975 | Air India | New Delhi |

| 25 | Yagya | 14 | M | IG6678 | IndiGo | New Delhi |

| 26 | Soumil | 15 | M | IG6678 | IndiGo | New Delhi |

| 27 | Suhana | 34 | F | VS8271 | Vistara | Chennai |

| 28 | Akansha | 23 | F | VS8271 | Vistara | Chennai |

| 29 | Megha | 29 | F | AI8281 | Air India | Chennai |

| 30 | Sarthak | 5 | M | AI5674 | Air India | New Delhi |

| 31 | Bina | 98 | F | AI9975 | Air India | New Delhi |

| 32 |Tejaswini | 29 | F | IG6678 | IndiGo | New Delhi |

| 33 | Dharmendra | 29 | M | IG6678 | IndiGo | New Delhi |

| 34 | Vijay | 89 | M | VS8271 | Vistara | Chennai |

| 35 | Komal | 49 | F | AI5674 | Air India | New Delhi |

| 36 | Arushi | 49 | F | AI5674 | Air India | New Delhi |

| 37 | Devika | 28 | F | AI3625 | Air India | New Delhi |

| 38 | Harsimran | 28 | M | IG8179 | IndiGo | Chennai |

| 39 | Parth | 15 | M | AI8281 | Air India | Chennai |

| 40 | Nilesh | 33 | M | AI5674 | Air India | New Delhi |

+-------------+---------------+------+--------+----------+-----------+-------------+

40 rows in set (0.00 sec)

**Python Coding**

import mysql.connector as con

import pandas as pd

import matplotlib.pyplot as pl

import numpy as np

mycon=con.connect(host='localhost', user='root', passwd='tiger', charset='utf8', database='project')

if mycon.is\_connected()==False:

print("Not Connected")

cur=mycon.cursor()

res='y'

while res=='y' or res=='Y':

print("MENU \n 1.Retrieve \n 2.Updation \n 3.Insertion \n 4.Deletion \n 5.Visualization \n 6.Exit")

response=int(input("Enter your choice from menu-"))

#RETRIEVAL OF INFORMATION IN DIFFERENT WAYS

if response==1:

print()

print("\U0001f600 WELCOME TO AIRPORT RETRIEVAL SERVICE \U0001f600")

print()

print("SUB-MENU \n 1.Display All \n 2.Filtered Column Display \n 3.Search Name-Wise")

subch=int(input("ENTER THE SUB-CHOICE: "))

if subch==1:

query='select passengerid,passengername,age,gender,p.flightno,airlines,destination from passenger p,flight f where p.flightno=f.flightno'

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

df=pd.DataFrame(data, columns=['PassengerID','Passengername','Age','Gender','Flightno','Airlines','Destination'])

print(df)

if subch==2:

lst=[]

col=[]

n=int(input("ENTER THE NUMBER OF COLUMNS YOU WANT IN DISPLAY- "))

for i in range(0,n):

ele=input('INPUT: ')

lst.append(ele)

col.append(ele)

lst.append(',')

lst=lst[:-1]

print(lst)

inp=''.join(lst)

print()

#print(inp)

query="select {} from passenger p,flight f where p.flightno=f.flightno".format(inp)

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

df=pd.DataFrame(data,columns=col)

print(df)

if subch==3:

name=input("Enter the name you want in display- ")

query="select passengerid,passengername,age,gender,p.flightno,airlines,destination from passenger p,flight f where p.flightno=f.flightno and passengername='{}'".format(name)

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

df=pd.DataFrame(data,columns=['PassengerID','Passengername','Age','Gender','Flightno','Airlines','Destination'])

print(df)

#UPDATION OF DIFFERENT TABLES

if response==2:

print("")

login=input("ENTER YOUR LOGIN\_ID: ")

if login=='RJ10' or login=='RJ12':

pswrd=input("ENTER PASSWORD: ")

print()

if pswrd=="tiger":

print("\U0001f600 WELCOME TO AIRPORT UPDATION SERVICE \U0001f600")

print()

print("SUB-MENU \n 1.Passenger Table \n 2.Flight Table")

subch=int(input("ENTER THE SUB-CHOICE: "))

if subch==1:

name=input("ENTER THE NAME OF THE PASSENGER-")

fno=input("ENTER THE CHANGED FLIGHT NUMBER-")

st="update passenger set flightno='{}' where passengername='{}'".format(fno,name)

cur.execute(st)

mycon.commit()

cur.execute("select \* from passenger")

data=cur.fetchall()

#for row in data:

#print(row)

print()

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['PassengerID','Passengername','Age','Gender','Flightno'])

print(df)

if subch==2:

fno=input("ENTER THE FLIGHT NUMBER-")

dest=input("ENTER THE NEW DESTINATION-")

st="update flight set destination='{}' where flightno='{}'".format(dest,fno)

cur.execute(st)

mycon.commit()

cur.execute("select \* from flight")

data=cur.fetchall()

#for row in data:

#print(row)

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['Flightno','Airlines','Destination'])

print(df)

else:

print("!!! LOGIN FAILED !!!")

break

else:

print("!!! LOGIN FAILED !!!")

break

#INSERTION INTO DIFFERENT TABLES

if response==3:

print()

login=input("ENTER YOUR LOGIN\_ID: ")

if login=='RJ10' or login=='RJ12':

pswrd=input("ENTER PASSWORD: ")

print()

if pswrd=="tiger":

print("\U0001f600 WELCOME TO AIRPORT INSERTION SERVICE \U0001f600")

print()

print("SUB-MENU \n 1.Passenger Table \n 2.Flight Table")

subch=int(input("ENTER THE SUB-CHOICE: "))

if subch==1:

pid=int(input("ENTER PASSENGER\_ID-"))

name=str(input("ENTER PASSENGERNAME-"))

age=input("ENTER THE AGE-")

gender=input("ENTER THE GENDER-")

fno=input("ENTER THE FLIGHT NUMBER-")

query="insert into passenger values({},'{}',{},'{}','{}')".format(pid,name,age,gender,fno)

cur.execute(query)

mycon.commit()

cur.execute("select \* from passenger")

data=cur.fetchall()

#for row in data:

#print(row)

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['PassengerID','Passengername','Age','Gender','Flightno'])

print(df)

if subch==2:

fno=input("ENTER THE FLIGHT NUMBER-")

air=str(input("ENTER AIRLINES-"))

dest=input("ENTER THE DESTINATION-")

query="insert into flight values('{}','{}','{}')".format(fno,air,dest)

cur.execute(query)

mycon.commit()

cur.execute("select \* from flight")

data=cur.fetchall()

#for row in data:

#print(row)

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['Flightno','Airlines','Destination'])

print(df)

else:

print("!!! LOGIN FAILED !!!")

break

else:

print("!!! LOGIN FAILED !!!")

break

#DELETION FROM DIFFERENT TABLES

if response==4:

print()

login=input("ENTER YOUR LOGIN\_ID: ")

if login=='RJ10' or login=='RJ12':

pswrd=input("ENTER PASSWORD: ")

print()

if pswrd=="tiger":

print("\U0001f600 WELCOME TO AIRPORT DELETION SERVICE \U0001f600")

print()

print("SUB-MENU \n 1.Passenger Table \n 2.Flight Table")

subch=int(input("ENTER THE SUB-CHOICE: "))

if subch==1:

name=input("ENTER THE NAME OF PASSENGER WHOSE RECORD IS TO BE REMOVED-")

st="delete from passenger where passengername='{}'".format(name)

cur.execute(st)

mycon.commit()

cur.execute("select \* from passenger")

data=cur.fetchall()

#for row in data:

#print(row)

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['PassengerID','Passengername','Age','Gender','Flightno'])

print(df)

if subch==2:

fno=input("ENTER THE FLIGHT NUMBER-")

st="delete from flight where flightno='{}'".format(fno)

cur.execute(st)

mycon.commit()

cur.execute("select \* from flight")

data=cur.fetchall()

#for row in data:

#print(row)

print('NEW DATAFRAME FORMED IS:')

df=pd.DataFrame(data, columns=['Flightno','Airlines','Destination'])

print(df)

else:

print("!!! LOGIN FAILED !!!")

break

else:

print("!!! LOGIN FAILED !!!")

break

#VISUALIZATION IN DIFFERENT WAYS

if response==5:

print()

print("\U0001f600 WELCOME TO AIRPORT VISUALIZATION SERVICE \U0001f600")

print()

print("SUB-MENU \n 1.Total Distribution of Flights \n 2.Preferred Place \n 3.Place-Wise Distribution \n 4.Gender Distribution (Place-Wise)")

subch=int(input("ENTER SUB-CHOICE: "))

if subch==1:

query='select airlines,count(\*) from flight group by airlines'

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

print('Table formed is:')

print()

df=pd.DataFrame(data, columns=['Airlines','Number'])

print(df)

print()

print('GRAPH CHOICE \n1.Bar Chart \n2.Line Chart \n3.Scatter Chart \n4.Pie Chart')

pl.title("Total Number of Flights")

graphch=int(input("Enter Graph Choice: "))

if graphch==1:

pl.bar(df['Airlines'],df['Number'])

pl.xlabel('Airlines Available')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==2:

pl.plot(df['Airlines'],df['Number'])

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==3:

pl.scatter(df['Airlines'],df['Number'])

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==4:

pl.pie(df['Number'],labels=df['Airlines'],shadow=True)

pl.show()

if subch==2:

query='select destination,count(\*) from flight group by destination'

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

print('Table formed is:')

print()

df=pd.DataFrame(data, columns=['Destination','Number'])

print(df)

print()

print('GRAPH CHOICE \n1.Bar Chart \n2.Line Chart \n3.Scatter Chart \n4.Pie Chart')

pl.title("Preferred Destination")

graphch=int(input("ENTER GRAPH CHOICE: "))

if graphch==1:

pl.bar(df['Destination'],df['Number'])

pl.xlabel('Places')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==2:

pl.plot(df['Destination'],df['Number'])

pl.xlabel('Places')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==3:

pl.scatter(df['Destination'],df['Number'])

pl.xlabel('Places')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==4:

pl.pie(df['Number'],labels=df['Destination'], shadow=True)

pl.show()

if subch==3:

dest=input("Enter Destination: ")

query="select airlines,destination,count(airlines) from flight group by destination,airlines having destination='{}'".format(dest)

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

print('Table formed is:')

print()

df=pd.DataFrame(data,columns=['Airlines','Destination','Number'])

del df['Destination']

print(df)

print()

print('GRAPH CHOICE \n1.Bar Chart \n2.Line Chart \n3.Scatter Chart \n4.Pie Chart')

pl.title("Airline Distribution To Destination")

graphch=int(input("ENTER GRAPH CHOICE: "))

if graphch==1:

pl.bar(df['Airlines'],df['Number'])

pl.xlabel('Airlines Available')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==2:

pl.plot(df['Airlines'],df['Number'])

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==3:

pl.scatter(df['Airlines'],df['Number'])

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==4:

pl.pie(df['Number'],labels=df['Airlines'], shadow=True)

pl.show()

if subch==4:

gend='f'

dest=input("Enter the Destination: ")

query="select p.gender,f.destination,f.airlines,count(p.gender) from passenger p,flight f where p.flightno=f.flightno group by gender,airlines,destination having gender='f' and destination='{}'".format(dest)

cur.execute(query)

data=cur.fetchall()

#for row in data:

#print(row)

print('Table formed (for females is):')

df=pd.DataFrame(data, columns=['Gender','Destination','Airlines','Number'])

del df['Destination']

del df['Gender']

print(df)

print()

gend1='m'

query1="select p.gender, f.destination, f.airlines, count(p.gender) from passenger p,flight f where p.flightno=f.flightno group by gender, airlines, destination having gender='m' and destination='{}'".format(dest)

cur.execute(query1)

data1=cur.fetchall()

#for row in data:

#print(row)

print('Table formed (for males is):')

df1=pd.DataFrame(data1, columns=['Gender','Destination','Airlines','Number'])

del df1['Destination']

del df1['Gender']

print(df1)

print()

print('GRAPH CHOICE \n1.Comparitive Bar Chart \n2.Line Chart \n3.Scatter Chart')

pl.title("Gender Distribution Of Airlines")

graphch=int(input("ENTER GRAPH CHOICE: "))

if graphch==1:

x=np.arange(3)

y=['Air India','IndiGo','Vistara']

pl.bar(x,df['Number'],width=0.3,label='Females')

pl.bar(x+0.3,df1['Number'],width=0.3,label='Males')

pl.legend(loc='upper right')

pl.xticks(x,y)

pl.xlabel('Airlines Available')

pl.ylabel('Number of Airlines')

pl.show()

if graphch==2:

pl.plot(df['Airlines'],df['Number'],color='b',marker='x',label='Females')

pl.plot(df1['Airlines'],df1['Number'],color='r',marker='d',label='Males')

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.legend(loc='upper right')

pl.show()

if graphch==3:

pl.scatter(df['Airlines'],df['Number'],color='b',label='Females')

pl.scatter(df1['Airlines'],df1['Number'],color='r',label='Males')

pl.xlabel('Airlines')

pl.ylabel('Number of Airlines')

pl.legend(loc='upper left')

pl.show()

#EXITING FROM THE SOFTWARE

if response==6:

print("Thank You For Using This Software")

break

res=input("Do you want to continue? (Y/N)-")

if res=='y' or res=='Y':

continue

else:

break

mycon.close()

**Outputs of Coding**

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-1

😀 WELCOME TO AIRPORT RETRIEVAL SERVICE 😀

SUB-MENU

1.Display All

2.Filtered Column Display

3.Search Name-Wise

ENTER THE SUB-CHOICE: 1

PassengerID Passengername Age Gender Flightno Airlines Destination

0 1 Rishabh 16 M AI5674 Air India New Delhi

1 2 Abhishek 24 M IG8179 IndiGo Chennai

2 3 Aayush 18 M VS8271 Vistara Chennai

3 4 Seher 21 F VS7718 Vistara New Delhi

4 5 Vishakha 30 F IG8179 IndiGo Chennai

5 6 Saksham 30 M AI5674 Air India New Delhi

6 7 Sambhav 10 M AI9975 Air India New Delhi

7 8 Shagun 37 F IG6678 IndiGo New Delhi

8 9 Shobha 65 F VS1910 Vistara Chennai

9 10 Sanjay 46 M AI8281 Air India Chennai

10 11 Pradeep 78 M AI3625 Air India New Delhi

11 12 Unnati 10 F AI3625 Air India New Delhi

12 13 Khushi 26 F AI8281 Air India Chennai

13 14 Garima 44 F AI5674 Air India New Delhi

14 15 Himanshu 33 M VS7718 Vistara New Delhi

15 16 Nilansha 16 F VS8271 Vistara Chennai

16 17 Shaurya 17 M AI9975 Air India New Delhi

17 18 Abreesh 19 M VS7718 Vistara New Delhi

18 19 Pranav 78 M AI9975 Air India New Delhi

19 20 Anuvrinda 23 F IG6678 IndiGo New Delhi

20 21 Manasvi 55 F VS1910 Vistara Chennai

21 22 Aryama 16 F AI5674 Air India New Delhi

22 23 Ajay 51 M AI8281 Air India Chennai

23 24 Shobit 36 M AI9975 Air India New Delhi

24 25 Yagya 13 M IG6678 IndiGo New Delhi

25 26 Soumil 15 M IG6678 IndiGo New Delhi

26 27 Suhana 34 F VS8271 Vistara Chennai

27 28 Akansha 23 F VS8271 Vistara Chennai

28 29 Megha 29 F AI8281 Air India Chennai

29 30 Sarthak 5 M AI5674 Air India New Delhi

30 31 Bina 98 F AI9975 Air India New Delhi

31 32 Tejaswini 29 F IG6678 IndiGo New Delhi

32 33 Dharmendra 29 M IG6678 IndiGo New Delhi

33 34 Vijay 89 M VS8271 Vistara Chennai

34 35 Komal 49 F AI5674 Air India New Delhi

35 36 Arushi 49 F AI5674 Air India New Delhi

36 37 Devika 28 F AI3625 Air India New Delhi

37 38 Harsimran 28 M IG8179 IndiGo Chennai

38 39 Parth 15 M AI8281 Air India Chennai

39 40 Nilesh 33 M AI5674 Air India New Delhi

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-1

😀 WELCOME TO AIRPORT RETRIEVAL SERVICE 😀

SUB-MENU

1.Display All

2.Filtered Column Display

3.Search Name-Wise

ENTER THE SUB-CHOICE: 2

ENTER THE NUMBER OF COLUMNS YOU WANT IN DISPLAY- 3

INPUT: Passengername

INPUT: passengerid

INPUT: Destination

['Passengername', ',', 'passengerid', ',', 'Destination']

Passengername passengerid Destination

0 Rishabh 1 New Delhi

1 Abhishek 2 Chennai

2 Aayush 3 Chennai

3 Seher 4 New Delhi

4 Vishakha 5 Chennai

5 Saksham 6 New Delhi

6 Sambhav 7 New Delhi

7 Shagun 8 New Delhi

8 Shobha 9 Chennai

9 Sanjay 10 Chennai

10 Pradeep 11 New Delhi

11 Unnati 12 New Delhi

12 Khushi 13 Chennai

13 Garima 14 New Delhi

14 Himanshu 15 New Delhi

15 Nilansha 16 Chennai

16 Shaurya 17 New Delhi

17 Abreesh 18 New Delhi

18 Pranav 19 New Delhi

19 Anuvrinda 20 New Delhi

20 Manasvi 21 Chennai

21 Aryama 22 New Delhi

22 Ajay 23 Chennai

23 Shobit 24 New Delhi

24 Yagya 25 New Delhi

25 Soumil 26 New Delhi

26 Suhana 27 Chennai

27 Akansha 28 Chennai

28 Megha 29 Chennai

29 Sarthak 30 New Delhi

30 Bina 31 New Delhi

31 Tejaswini 32 New Delhi

32 Dharmendra 33 New Delhi

33 Vijay 34 Chennai

34 Komal 35 New Delhi

35 Arushi 36 New Delhi

36 Devika 37 New Delhi

37 Harsimran 38 Chennai

38 Parth 39 Chennai

39 Nilesh 40 New Delhi

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-1

😀 WELCOME TO AIRPORT RETRIEVAL SERVICE 😀

SUB-MENU

1.Display All

2.Filtered Column Display

3.Search Name-Wise

ENTER THE SUB-CHOICE: 3

Enter the name you want in display- Rishabh

PassengerID Passengername Age Gender Flightno Airlines Destination

0 1 Rishabh 16 M AI5674 Air India New Delhi

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-2

ENTER YOUR LOGIN\_ID: RJ10

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT UPDATION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 1

ENTER THE NAME OF THE PASSENGER-Rishabh

ENTER THE CHANGED FLIGHT NUMBER-IG8179

NEW DATAFRAME FORMED IS:

PassengerID Passengername Age Gender Flightno

0 1 Rishabh 16 M IG8179

1 2 Abhishek 24 M IG8179

2 3 Aayush 18 M VS8271

3 4 Seher 21 F VS7718

4 5 Vishakha 30 F IG8179

5 6 Saksham 30 M AI5674

6 7 Sambhav 10 M AI9975

7 8 Shagun 37 F IG6678

8 9 Shobha 65 F VS1910

9 10 Sanjay 46 M AI8281

10 11 Pradeep 78 M AI3625

11 12 Unnati 10 F AI3625

12 13 Khushi 26 F AI8281

13 14 Garima 44 F AI5674

14 15 Himanshu 33 M VS7718

15 16 Nilansha 16 F VS8271

16 17 Shaurya 17 M AI9975

17 18 Abreesh 19 M VS7718

18 19 Pranav 78 M AI9975

19 20 Anuvrinda 23 F IG6678

20 21 Manasvi 55 F VS1910

21 22 Aryama 16 F AI5674

22 23 Ajay 51 M AI8281

23 24 Shobit 36 M AI9975

24 25 Yagya 13 M IG6678

25 26 Soumil 15 M IG6678

26 27 Suhana 34 F VS8271

27 28 Akansha 23 F VS8271

28 29 Megha 29 F AI8281

29 30 Sarthak 5 M AI5674

30 31 Bina 98 F AI9975

31 32 Tejaswini 29 F IG6678

32 33 Dharmendra 29 M IG6678

33 34 Vijay 89 M VS8271

34 35 Komal 49 F AI5674

35 36 Arushi 49 F AI5674

36 37 Devika 28 F AI3625

37 38 Harsimran 28 M IG8179

38 39 Parth 15 M AI8281

39 40 Nilesh 33 M AI5674

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-2

ENTER YOUR LOGIN\_ID: RJ12

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT UPDATION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 2

ENTER THE FLIGHT NUMBER-AI5674

ENTER THE NEW DESTINATION-Mumbai

NEW DATAFRAME FORMED IS:

Flightno Airlines Destination

0 IG6678 IndiGo New Delhi

1 AI9975 Air India New Delhi

2 AI3625 Air India New Delhi

3 AI8281 Air India Chennai

4 IG8179 IndiGo Chennai

5 VS1910 Vistara Chennai

6 VS8271 Vistara Chennai

7 VS7718 Vistara New Delhi

8 AI5674 Air India Mumbai

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-3

ENTER YOUR LOGIN\_ID: RJ10

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT INSERTION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 1

ENTER PASSENGER\_ID-41

ENTER PASSENGERNAME-Nishalya

ENTER THE AGE-17

ENTER THE GENDER-M

ENTER THE FLIGHT NUMBER-AI5674

NEW DATAFRAME FORMED IS:

PassengerID Passengername Age Gender Flightno

0 1 Rishabh 16 M AI5674

1 2 Abhishek 24 M IG8179

2 3 Aayush 18 M VS8271

3 4 Seher 21 F VS7718

4 5 Vishakha 30 F IG8179

5 6 Saksham 30 M AI5674

6 7 Sambhav 10 M AI9975

7 8 Shagun 37 F IG6678

8 9 Shobha 65 F VS1910

9 10 Sanjay 46 M AI8281

10 11 Pradeep 78 M AI3625

11 12 Unnati 10 F AI3625

12 13 Khushi 26 F AI8281

13 14 Garima 44 F AI5674

14 15 Himanshu 33 M VS7718

15 16 Nilansha 16 F VS8271

16 17 Shaurya 17 M AI9975

17 18 Abreesh 19 M VS7718

18 19 Pranav 78 M AI9975

19 20 Anuvrinda 23 F IG6678

20 21 Manasvi 55 F VS1910

21 22 Aryama 16 F AI5674

22 23 Ajay 51 M AI8281

23 24 Shobit 36 M AI9975

24 25 Yagya 13 M IG6678

25 26 Soumil 15 M IG6678

26 27 Suhana 34 F VS8271

27 28 Akansha 23 F VS8271

28 29 Megha 29 F AI8281

29 30 Sarthak 5 M AI5674

30 31 Bina 98 F AI9975

31 32 Tejaswini 29 F IG6678

32 33 Dharmendra 29 M IG6678

33 34 Vijay 89 M VS8271

34 35 Komal 49 F AI5674

35 36 Arushi 49 F AI5674

36 37 Devika 28 F AI3625

37 38 Harsimran 28 M IG8179

38 39 Parth 15 M AI8281

39 40 Nilesh 33 M AI5674

40 41 Nishalya 17 M AI5674

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-3

ENTER YOUR LOGIN\_ID: RJ10

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT INSERTION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 2

ENTER THE FLIGHT NUMBER-SJ7777

ENTER AIRLINES-SpiceJet

ENTER THE DESTINATION-Dehradun

NEW DATAFRAME FORMED IS:

Flightno Airlines Destination

0 IG6678 IndiGo New Delhi

1 AI9975 Air India New Delhi

2 AI3625 Air India New Delhi

3 AI8281 Air India Chennai

4 IG8179 IndiGo Chennai

5 VS1910 Vistara Chennai

6 VS8271 Vistara Chennai

7 VS7718 Vistara New Delhi

8 AI5674 Air India New Delhi

9 SJ7777 SpiceJet Dehradun

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-4

ENTER YOUR LOGIN\_ID: RJ10

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT DELETION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 1

ENTER THE NAME OF PASSENGER WHOSE RECORD IS TO BE REMOVED-Nishalya

NEW DATAFRAME FORMED IS:

PassengerID Passengername Age Gender Flightno

0 1 Rishabh 16 M AI5674

1 2 Abhishek 24 M IG8179

2 3 Aayush 18 M VS8271

3 4 Seher 21 F VS7718

4 5 Vishakha 30 F IG8179

5 6 Saksham 30 M AI5674

6 7 Sambhav 10 M AI9975

7 8 Shagun 37 F IG6678

8 9 Shobha 65 F VS1910

9 10 Sanjay 46 M AI8281

10 11 Pradeep 78 M AI3625

11 12 Unnati 10 F AI3625

12 13 Khushi 26 F AI8281

13 14 Garima 44 F AI5674

14 15 Himanshu 33 M VS7718

15 16 Nilansha 16 F VS8271

16 17 Shaurya 17 M AI9975

17 18 Abreesh 19 M VS7718

18 19 Pranav 78 M AI9975

19 20 Anuvrinda 23 F IG6678

20 21 Manasvi 55 F VS1910

21 22 Aryama 16 F AI5674

22 23 Ajay 51 M AI8281

23 24 Shobit 36 M AI9975

24 25 Yagya 13 M IG6678

25 26 Soumil 15 M IG6678

26 27 Suhana 34 F VS8271

27 28 Akansha 23 F VS8271

28 29 Megha 29 F AI8281

29 30 Sarthak 5 M AI5674

30 31 Bina 98 F AI9975

31 32 Tejaswini 29 F IG6678

32 33 Dharmendra 29 M IG6678

33 34 Vijay 89 M VS8271

34 35 Komal 49 F AI5674

35 36 Arushi 49 F AI5674

36 37 Devika 28 F AI3625

37 38 Harsimran 28 M IG8179

38 39 Parth 15 M AI8281

39 40 Nilesh 33 M AI5674

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-4

ENTER YOUR LOGIN\_ID: RJ12

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT DELETION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 2

ENTER THE FLIGHT NUMBER-SJ7777

NEW DATAFRAME FORMED IS:

Flightno Airlines Destination

0 IG6678 IndiGo New Delhi

1 AI9975 Air India New Delhi

2 AI3625 Air India New Delhi

3 AI8281 Air India Chennai

4 IG8179 IndiGo Chennai

5 VS1910 Vistara Chennai

6 VS8271 Vistara Chennai

7 VS7718 Vistara New Delhi

8 AI5674 Air India New Delhi

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-4

ENTER YOUR LOGIN\_ID: RJ10

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT DELETION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 1

ENTER THE NAME OF PASSENGER WHOSE RECORD IS TO BE REMOVED-Nishalya

NEW DATAFRAME FORMED IS:

PassengerID Passengername Age Gender Flightno

0 1 Rishabh 16 M AI5674

1 2 Abhishek 24 M IG8179

2 3 Aayush 18 M VS8271

3 4 Seher 21 F VS7718

4 5 Vishakha 30 F IG8179

5 6 Saksham 30 M AI5674

6 7 Sambhav 10 M AI9975

7 8 Shagun 37 F IG6678

8 9 Shobha 65 F VS1910

9 10 Sanjay 46 M AI8281

10 11 Pradeep 78 M AI3625

11 12 Unnati 10 F AI3625

12 13 Khushi 26 F AI8281

13 14 Garima 44 F AI5674

14 15 Himanshu 33 M VS7718

15 16 Nilansha 16 F VS8271

16 17 Shaurya 17 M AI9975

17 18 Abreesh 19 M VS7718

18 19 Pranav 78 M AI9975

19 20 Anuvrinda 23 F IG6678

20 21 Manasvi 55 F VS1910

21 22 Aryama 16 F AI5674

22 23 Ajay 51 M AI8281

23 24 Shobit 36 M AI9975

24 25 Yagya 13 M IG6678

25 26 Soumil 15 M IG6678

26 27 Suhana 34 F VS8271

27 28 Akansha 23 F VS8271

28 29 Megha 29 F AI8281

29 30 Sarthak 5 M AI5674

30 31 Bina 98 F AI9975

31 32 Tejaswini 29 F IG6678

32 33 Dharmendra 29 M IG6678

33 34 Vijay 89 M VS8271

34 35 Komal 49 F AI5674

35 36 Arushi 49 F AI5674

36 37 Devika 28 F AI3625

37 38 Harsimran 28 M IG8179

38 39 Parth 15 M AI8281

39 40 Nilesh 33 M AI5674

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-4

ENTER YOUR LOGIN\_ID: RJ12

ENTER PASSWORD: tiger

😀 WELCOME TO AIRPORT DELETION SERVICE 😀

SUB-MENU

1.Passenger Table

2.Flight Table

ENTER THE SUB-CHOICE: 2

ENTER THE FLIGHT NUMBER-SJ7777

NEW DATAFRAME FORMED IS:

Flightno Airlines Destination

0 IG6678 IndiGo New Delhi

1 AI9975 Air India New Delhi

2 AI3625 Air India New Delhi

3 AI8281 Air India Chennai

4 IG8179 IndiGo Chennai

5 VS1910 Vistara Chennai

6 VS8271 Vistara Chennai

7 VS7718 Vistara New Delhi

8 AI5674 Air India New Delhi

Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 1

Table formed is:

Airlines Number

0 Air India 4

1 IndiGo 2

2 Vistara 3

GRAPH CHOICE

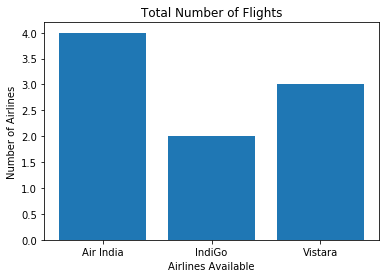
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

Enter Graph Choice: 1



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 1

Table formed is:

Airlines Number

0 Air India 4

1 IndiGo 2

2 Vistara 3

GRAPH CHOICE

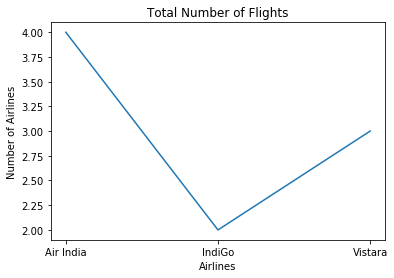
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

Enter Graph Choice: 2



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 1

Table formed is:

Airlines Number

0 Air India 4

1 IndiGo 2

2 Vistara 3

GRAPH CHOICE

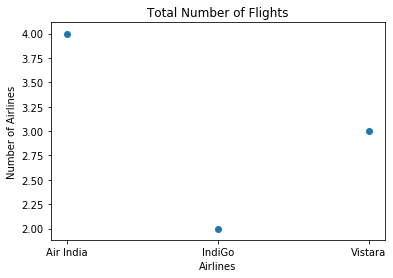
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

Enter Graph Choice: 3



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 1

Table formed is:

Airlines Number

0 Air India 4

1 IndiGo 2

2 Vistara 3

GRAPH CHOICE

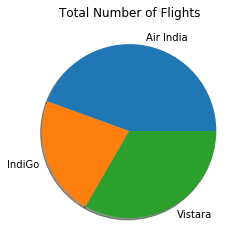
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

Enter Graph Choice: 4



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 2

Table formed is:

Destination Number

0 Chennai 4

1 New Delhi 5

GRAPH CHOICE

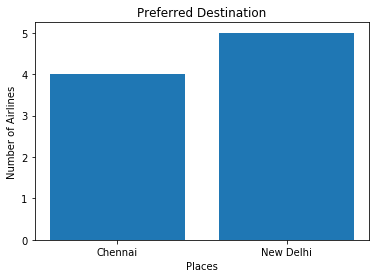
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 1



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 2

Table formed is:

Destination Number

0 Chennai 4

1 New Delhi 5

GRAPH CHOICE

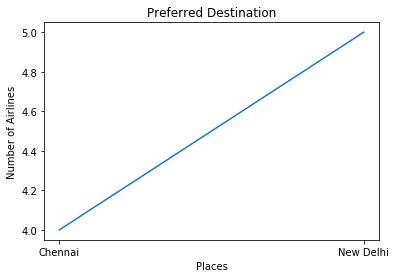
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 2



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 2

Table formed is:

Destination Number

0 Chennai 4

1 New Delhi 5

GRAPH CHOICE

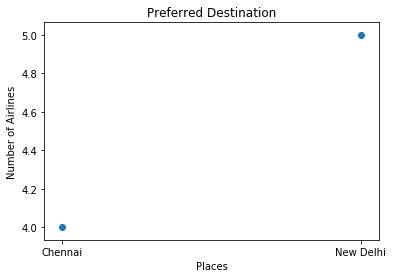
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 3



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 2

Table formed is:

Destination Number

0 Chennai 4

1 New Delhi 5

GRAPH CHOICE

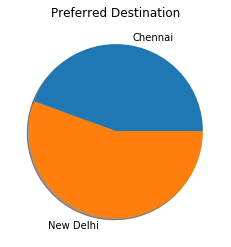
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 4



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 3

Enter Destination: New Delhi

Table formed is:

Airlines Number

0 Air India 3

1 IndiGo 1

2 Vistara 1

GRAPH CHOICE

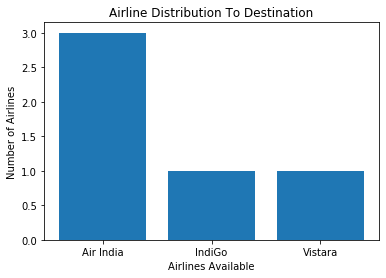
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 1



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 3

Enter Destination: Chennai

Table formed is:

Airlines Number

0 Air India 1

1 IndiGo 1

2 Vistara 2

GRAPH CHOICE

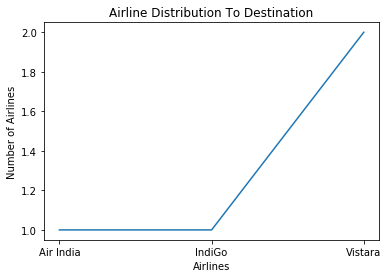
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 2



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 3

Enter Destination: New Delhi

Table formed is:

Airlines Number

0 Air India 3

1 IndiGo 1

2 Vistara 1

GRAPH CHOICE

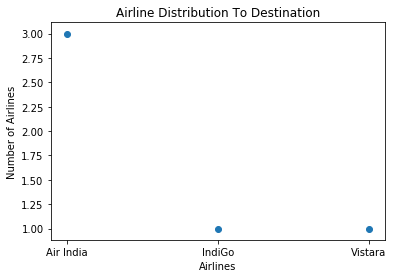
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 3



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 3

Enter Destination: Chennai

Table formed is:

Airlines Number

0 Air India 1

1 IndiGo 1

2 Vistara 2

GRAPH CHOICE

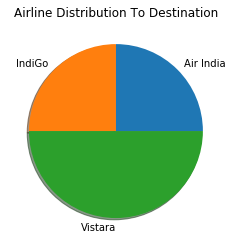
1.Bar Chart

2.Line Chart

3.Scatter Chart

4.Pie Chart

ENTER GRAPH CHOICE: 4



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 4

Enter the Destination: New Delhi

Table formed (for females is):

Airlines Number

0 Air India 7

1 IndiGo 3

2 Vistara 1

Table formed (for males is):

Airlines Number

0 Air India 9

1 IndiGo 3

2 Vistara 2

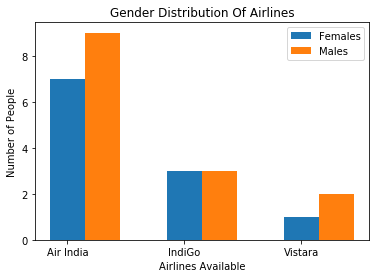
GRAPH CHOICE

1.Comparitive Bar Chart

2.Line Chart

3.Scatter Chart

ENTER GRAPH CHOICE: 1



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 4

Enter the Destination: Chennai

Table formed (for females is):

Airlines Number

0 Air India 2

1 IndiGo 1

2 Vistara 5

Table formed (for males is):

Airlines Number

0 Air India 3

1 IndiGo 2

2 Vistara 2

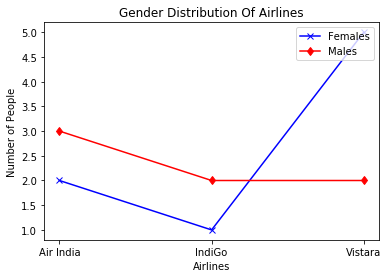
GRAPH CHOICE

1.Comparitive Bar Chart

2.Line Chart

3.Scatter Chart

ENTER GRAPH CHOICE: 2



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-5

😀 WELCOME TO AIRPORT VISUALIZATION SERVICE 😀

SUB-MENU

1.Total Distribution of Flights

2.Preferred Place

3.Place-Wise Distribution

4.Gender Distribution (Place-Wise)

ENTER SUB-CHOICE: 4

Enter the Destination: Chennai

Table formed (for females is):

Airlines Number

0 Air India 2

1 IndiGo 1

2 Vistara 5

Table formed (for males is):

Airlines Number

0 Air India 3

1 IndiGo 2

2 Vistara 2

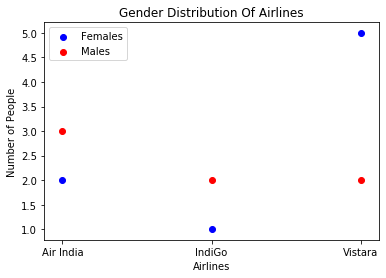
GRAPH CHOICE

1.Comparitive Bar Chart

2.Line Chart

3.Scatter Chart

ENTER GRAPH CHOICE: 3



Do you want to continue? (Y/N)-y

MENU

1.Retrieve

2.Updation

3.Insertion

4.Deletion

5.Visualization

6.Exit

Enter your choice from menu-6

Thank You For Using This Software

**MERITS & DEMERITS**

* MERITS :
* Makes record management easy and tidy.
* No paper work required and required task can be completed in seconds.
* Data can be retrieved in the way the user wants.
* Data can also be visualized in different styles for analysis of data efficiently.
* Thousands of records can be maintained.
* Addition, deletion or modification of data can be done easily.
* DEMERITS :
* Many lines of programming make code congested and confusing.
* Altering the structures of tables requires rewriting and changing many code segments.
* Works only on PC’s which have required MySQL databases.

**CONCLUSION AND FUTURE ENHANCEMENTS**

This program can be put to use in the varied fields of managing Airport Databases as it is a user-friendly, efficient and easy to use software for the purpose. The biggest advantage of using this is its ability to perform the required task paperless, thereby saving nature and time of the user.

* This program can be connected to the excel sheets via CSV formatting for changes in the structure of the table if needed so.
* This can also be updated in terms of graphics, i.e. output can be made more realistic using the graphics features.

**BIBLIOGRAPHY**

* Informatics Practices Class XI and Class XII textbook.
* Internet.