PYTHON ASSIGNMENT

BUS TICKET RESERVATION

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SOURCE CODE:

```python
import cx_Oracle

con=cx_Oracle.connect('system/qwerty')

cur=con.cursor()

#cur.execute("""Drop Table Bus_Ticket_Reservation""")

cur.execute("""Create table Bus_Ticket_Reservation(Name varchar2(30),Age number,Address varchar2(30),PhoneNo
number primary key,

DOB varchar2(30),StartingLocation varchar2(30),Destination varchar(30),NoTickets number)""")


class Ticket_Booking:
    def __init__(self,Name,Age,Address,PhoneNo,DOB,StartingLocation,Destination,NoTickets):
        self.data=[Name,Age,Address,PhoneNo,DOB,StartingLocation,Destination,NoTickets]
        self.Name=Name
        self.Age=Age
        self.Address=Address
        self.PhoneNo=PhoneNo
        self.DOB=DOB
        self.StartingLocation=StartingLocation
        self.Destination=Destination
        self.NoTickets=NoTickets
    def getName(self):
        return '{}'.format(self.Name)
    def getAge(self):
        return '{}'.format(self.Age)
    def getAddress(self):
        return '{}'.format(self.Address)
    def getPhone(self):
        return '{}'.format(self.PhoneNo)
    def getDOB(self):
        return '{}'.format(self.DOB)
    def getStartPlace(self):
        return '{}'.format(self.StartingLocation)
```

```python
def getEndPlace(self):
    return '{}'.format(self.Destination)
def getNoTickets(self):
    return '{}'.format(self.NoTickets)
def setName(self,Name):
    self.Name=Name
def setAge(self,Age):
    self.Age=Age
def setAddress(self,Address):
    self.Address=Address
def setPhone(self,phone):
    self.PhoneNo=phone
def setDOB(self,DOB):
    self.DOB=DOB
def setStart(self,start):
    self.StartingLocation=start
def setEnd(self,Destination):
    self.Destination=Destination
def setNoTickets(self,NoTickets):
    self.NoTickets=NoTickets


def Call_Procedure(self):
    cur.execute('''create or replace procedure bookTicket(
                Name IN varchar2,
                Age IN number,
                Address IN varchar2,
                PhoneNo IN number,
                DOB IN varchar2,
                StartingLocation IN varchar2,
                Destination IN varchar2,
                NoTickets IN number
            )
            is
            BEGIN
                insert into Bus_Ticket_Reservation
values(Name,Age,Address,PhoneNo,DOB,StartingLocation,Destination,NoTickets);
            END;
            ''')
```

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        cur.callproc("bookTicket",self.data)

        con.commit()


class Tickets_Alteration:

    def __init__(self,Name,PhoneNo,StartingLocation,Destination):

        self.Name=Name

        self.PhoneNo=PhoneNo

        self.StartingLocation=StartingLocation

        self.Destination=Destination

    def getName(self):

        return '{}'.format(self.Name)

    def getPhoneNo(self):

        return '{}'.format(self.PhoneNo)

    def getStartPlace(self):

        return '{}'.format(self.StartingLocation)

    def getEndPlace(self):

        return '{}'.format(self.Destination)

    def setName(self,Name):

        self.Name=Name

    def setPhoneNo(self,PhoneNo):

        self.PhoneNo=PhoneNo

    def setStartPlace(self,StartingLocation):

        self.StartingLocation=StartingLocation

    def setEndPlace(self,Destination):

        self.Destination=Destination

    def UpdateTickets(self):

        sql="update Bus_Ticket_Reservation set StartingLocation = : oneValue ,Destination = : otherValue where Name = :
oneField and PhoneNo = : otherField"

cur.execute(sql,oneValue=self.StartingLocation,otherValue=self.Destination,oneField=self.Name,otherField=self.PhoneNo)

        con.commit()


class Ticket_Cancellation:

    def __init__(self,Name,PhoneNo):

        self.Name=Name

        self.PhoneNo=PhoneNo

    def getName(self):

        return '{}'.format(self.Name)
```

```python
    def getPhoneNo(self):
        return '{}'.format(self.PhoneNo)
    def setName(self,Name):
        self.Name=Name
    def setPhoneNo(self,PhoneNo):
        self.PhoneNo=PhoneNo
    def Ticket_Cancellation(self):
        sql="delete from Bus_Ticket_Reservation where Name = :one_field and PhoneNo = :other_field "
        cur.execute(sql,one_field=self.Name,other_field=self.PhoneNo)
        con.commit()


if __name__ == "__main__":
    print('__ Welcome to RED Bus_Ticket_Reservation__'.center(50))
    while True:
        print('1.Book tickets\n2.Alter tickets\n3.Cancel tickets\n4.Exit Portal')
        choice=int(input('\nEnter your choice: '))
        if choice == 1:
            Obj1=Ticket_Booking(input('Enter Name: '),int(input('Enter Age: ')),input('Enter Address: '),
                    int(input('Enter phone number: ')),input('Enter D.O.B: '),input('Starting location: '),
                    input('Destination: '),int(input('Enter number of tickets: ')))
            Obj1.Call_Procedure()
            print('Booking Successful!'.center(50))
            print('Ticket Details:')
            cur.execute("""select * from Bus_Ticket_Reservation""")
            for i in cur.fetchall():
                print(i)


        elif choice == 2:
            print('Only Location Alteration Available')
            Obj2=Tickets_Alteration(input('Enter Name: '),int(input('Enter phone num:')),input('Enter the new starting place: '),input('Enter the new destination: '))
            Obj2.UpdateTickets()
            print('Update Successful!'.center(50))
            print('Ticket Details:')
            cur.execute("""select * from Bus_Ticket_Reservation""")
            for i in cur.fetchall():
                print(i)
        elif choice == 3:
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        print('Enter Ticket Details')

        Obj3=Ticket_Cancellation(input('Enter Name: '),int(input('Enter Phone no: ')))

        Obj3.Ticket_Cancellation()

        print('Your ticket has been Canceled successfully!'.center(50))

    else:

        print('Thank you!!'.center(50))

        exit()

    con.close()
```

OUTPUT:

```
      __ Welcome to RED Bus_Ticket_Reservation__
1.Book tickets
2.Alter tickets
3.Cancel tickets
4.Exit Portal

Enter your choice: 1
Enter Name: Vishnu
Enter Age: 19
Enter Address: Rathinapuri
Enter phone number: 8248740544
Enter D.O.B: 29-03-1999
Starting location: Coimbatore
Destination: Kochi
Enter number of tickets: 1
              Booking Successful!
Ticket Details:
('Vishnu', 19, 'Rathinapuri', 8248740544, '29-03-1999', 'Coimbatore', 'Kochi', 1)
1.Book tickets
2.Alter tickets
3.Cancel tickets
4.Exit Portal

Enter your choice: 1
Enter Name: Ram
Enter Age: 19
Enter Address: Koundampalayam
Enter phone number: 9876543210
Enter D.O.B: 02-07-1999
Starting location: Coimbatore
Destination: Banglore
Enter number of tickets: 2
              Booking Successful!
Ticket Details:
('Vishnu', 19, 'Rathinapuri', 8248740544, '29-03-1999', 'Coimbatore', 'Kochi', 1)
('Ram', 19, 'Koundampalayam', 9876543210, '02-07-1999', 'Coimbatore', 'Banglore', 2)

1.Book tickets
2.Alter tickets
3.Cancel tickets
4.Exit Portal

Enter your choice: 2
Only Location Alteration Available
Enter Name: Ram
Enter phone num:9876543210
Enter the new starting place: Coimbatore
Enter the new destination: Pune
              Update Successful!
Ticket Details:
('Vishnu', 19, 'Rathinapuri', 8248740544, '29-03-1999', 'Coimbatore', 'Kochi', 1)
('Ram', 19, 'Koundampalayam', 9876543210, '02-07-1999', 'Coimbatore', 'Pune', 2)
```

```
1.Book tickets
2.Alter tickets
3.Cancel tickets
4.Exit Portal

Enter your choice: 3
Enter Ticket Details
Enter Name: Vishnu
Enter Phone no: 8248740544
    Your ticket has been Canceled successfully!
1.Book tickets
2.Alter tickets
3.Cancel tickets
4.Exit Portal

Enter your choice: 4
                Thank you!!
```