**PROJECT**

**HOTEL MANAGEMENT**

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##hotelmanagement

print()

print()

print("""it includes the following '\n'

adding the information '\n'

getting guest information who are lodged in '\n'

checkin for a particular guest '\n'

updating the records '\n'

checking the availability of rooms'\n'

displaying the features of rooms '\n'

preparing a bill for the guest '\n'

showing monthly visit '\n'

showing city wise distribution '\n'

collecting the past records of the guest '\n'

""")

print()

print()

##foreign guest are not allowed

##food bill is included in the total bill it has to be paid on the spot

##one person can't stay for more then 1 months

##one identity proof is mandatory when lodged in

print()

print()

from tkinter import \*

import matplotlib.pyplot as plt

import mysql.connector as ms

import numpy as np

d=ms.connect(host="localhost",user="root",password="123456")

if d.is\_connected():

print("succesfully connected")

s=input("press Enter to continue")

print()

cur=d.cursor()

print()

cur.execute("create database if not exists paying\_guest;")

cur.execute("use paying\_guest")

print()

cur.execute("create table if not exists guest(id int ,name char(20),check\_in\_date date,check\_out\_date \

date,room\_no int,mobile\_no char(20),address varchar(20),city char(20),no\_of\_day\_stay int);")

d.commit()

print()

cur.execute("create table if not exists rooms(room\_no int,rent\_per\_day int,room\_type char(20),capacity char(20));")

d.commit()

print()

cur.execute("create table if not exists past\_records(id int ,name char(20),check\_in\_date date,check\_out\_date \

date,room\_no int,mobile\_no char(20),address varchar(20),city char(20),no\_of\_day\_stay int,bill int,mode\_of\_payment char(30));")

d.commit()

print()

while True:

print("1.display records")

print("2.add records")

print("3.update records of table guest")

print("4.update records of table rooms")

print("5.delete records")

print("6.searching for a guest")

print("7.checking room")

print("8.bill")

print("9.checking the guests")

print("10.display past records")

print("11.bar chart:showing monthly visit")

print("12.pie chart:showing city wise distribution")

print("13.delete all records")

print("14.exit")

print()

ch=int(input("enter your choice"))

print()

if ch==1:

print("displaying records")

print()

s=input("press Enter to continue")

print()

x=input("which table you want to display:guest/rooms")

print()

if x=='guest':

print("records of table guest")

print()

s=input("press Enter to continue")

print()

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

rec=cur.fetchall()

for a in rec:

print("id",a[0],'\n'"name",a[1],'\n'"check\_in\_date",a[2],'\n'"check\_out\_date",a[3],'\n'"room\_no",a[4],'\n'"mobile no"\

,a[5],'\n'"address",a[6],'\n'"city",a[7],'\n'"no\_of\_day\_stay",a[8],'\n')

print()

if len(rec)==0:

print("no records to display")

print()

if x=='rooms':

print("details of table rooms")

print()

s=input("press Enter to continue")

print()

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

rec=cur.fetchall()

for a in rec:

print("room\_no",a[0],'\n'"rent\_per\_day",a[1],'\n'"room\_type",a[2],'\n'"capacity",a[3],'\n')

if len(rec)==0:

print("no records to display")

print()

if ch==2:

print()

print("adding records")

print()

s=input("press Enter to continue")

print()

x=input("in which table you want to add records:guest/rooms")

if x=='guest':

print(" WELCOME ")

print()

print("adding records in table guest")

s=input("press Enter to continue")

print()

n=int(input("enter no of records"))

for a in range(n):

ci=input("enter check\_in\_date")

fn=input("enter name")

co=input("enter check\_out\_date")

idd=int(input("enter id"))

mo=input("enter mobile no")

ad=input("enter address")

city=input("enter city")

n=int(input("enter no of day stay"))

v=int(input("enter rooom no"))

mn="insert into guest(check\_in\_date,name,check\_out\_date,id,mobile\_no,address,\

city,no\_of\_day\_stay,room\_no) values('{}','{}','{}',{},'{}','{}','{}',{},{});".\

format(ci,fn,co,idd,mo,ad,city,n,v)

cur.execute(mn)

d.commit()

print("records added")

print()

if x=='rooms':

print()

print("adding details in table rooms")

s=input("press Enter to continue")

print()

p=int(input("enter no. of records"))

for a in range(p):

idd=int(input("enter room\_no"))

rn=int(input("rent per day"))

cp=input("enter room\_type")

no=int(input("enter capacity"))

y="insert into rooms values({},{},'{}',{});".format(idd,rn,cp,no)

cur.execute(y)

d.commit()

print("details added")

print()

if ch==3:

print()

print("updating check\_out\_date")

s=input("press Enter to continue")

print()

n=int(input("how many records you want to update"))

for a in range(n):

p=input("whose check\_out\_date you want to update")

c=input("old date")

n=input("updated date")

x="update guest set check\_out\_date='%s' where name='%s';"%(n,p)

cur.execute(x)

d.commit()

print("record updated")

print()

if ch==4:

print()

print("updating rent\_per\_day")

print()

s=input("press Enter to continue")

print()

n=int(input("For how many rooms you want to update the rent"))

print()

for a in range(n):

p=input(" For which room no. you want to update the rent")

c=int(input("old rent"))

n=int(input("updated rent"))

x="update rooms set rent\_per\_day=%s where room\_no=%s;"%(n,p)

cur.execute(x)

d.commit()

print("record updated")

print()

if ch==5:

print()

print("deleting record of a guest in table guest")

print()

s=input("press Enter to continue")

print()

n=input("whose record you want to delete in table guest")

print()

c="delete from guest where name='%s';"%(n)

cur.execute(c)

d.commit()

print("record deleted")

print()

if ch==6:

print()

print()

print("searching for a guest")

print()

s=input("press Enter to continue")

print()

x=input("enter the name of the person to be searched")

v="select \* from guest where name='%s';"%(x)

cur.execute(v)

rec=cur.fetchall()

for a in rec:

print("details of the person")

s=input("press Enter to continue")

print()

print("id",a[0],'\n'"name",a[1],'\n'"check\_in\_date",a[2],'\n'"check\_out\_date",a[3],'\n'"mobile no"\

,a[4],'\n'"address",a[5],'\n'"city",a[6],'\n'"no\_of\_day\_stay",a[7],'\n')

if len(rec)==0:

print("sorry not found or had checked out")

print()

if ch==7:

print()

print()

print("checking whether is room is booked or vacant")

print()

s=input("press Enter to continue")

print()

x=int(input("enter room\_no:101-140"))

y="select room\_no from guest;"

cur.execute(y)

rec=cur.fetchall()

for a in rec:

if x==a[0]:

print("already booked")

print()

p=1

break

else:

p=0

if p==0:

print("not found or vacant")

print()

if ch==8:

print()

print()

print("bill")

print()

s=input("press Enter to continue")

print()

root=Tk()

root.title("display bill")

ans=Label(root,text="\_\_\_")

ans.grid(row=0,column=0)

label1=Label(root,text="enter room\_no")

label1.grid(row=1,column=0)

txt1=Entry(root)

txt1.grid(row=1,column=1,columnspan=1)

def inf():

a=txt1.get()

k="select no\_of\_day\_stay from guest where room\_no ='%s';"%(a)

cur.execute(k)

rec1=cur.fetchall()

for x in rec1:

l=int(x[0])

p="select rent\_per\_day from rooms where room\_no='%s';"%(a)

cur.execute(p)

rec2=cur.fetchall()

for x in rec2:

m=int(x[0])

ans.configure(text=l\*m)

j="select name from guest where room\_no='%s';"%(a)

cur.execute(j)

rec=cur.fetchall()

for c in rec:

p=c[0]

status\_label.configure(text=rec)

bill=l\*m

print("bill of",p,"is",bill)

print()

print("thanks for the visit",p)

print()

print("inserting record of",p,"in table past\_records")

s=input("press Enter to continue")

print()

w="select \* from guest where name='%s';"%(p,)

cur.execute(w)

w=cur.fetchall()

## rec=w[0]

## print(rec)

## print(rec[2])

v="insert into past\_records (id ,name,check\_in\_date,check\_out\_date,room\_no,mobile\_no,address,city,no\_of\_day\_stay) \

values({},'{}','{}','{}',{},'{}','{}','{}',{});".format(rec[0],rec[1],rec[2],rec[3],rec[4],rec[5],rec[6],rec[7],rec[8])

cur.execute(v)

d.commit()

print()

m="update past\_records set bill=%d where name='%s';"%(bill,p)

cur.execute(m)

d.commit()

x=input("enter mode of payment")

print()

n="update past\_records set mode\_of\_payment='%s' where name='%s';"%(x,p)

cur.execute(n)

d.commit()

print("record inserted in table past\_record")

print()

k="delete from guest where name='%s';"%(p)

cur.execute(k)

d.commit()

print( " record of",p,"deleted from table guest")

print()

b1=Button(root,text="display",command=inf)

b1.grid(row=3,column=0,columnspan=2)

status\_label=Label(root,height=5,width=55,bg="black",fg="pink",text="\_\_\_")

status\_label.grid(row=4,column=0)

root.mainloop()

print()

print()

if ch==9:

print()

print("CHECKING FOR THE PERSONS WHOSE CHECKOUT OUT DATE HAS GONE BUT HAVE'NT CHECKOUT YET")

print()

s=input("press Enter to continue")

print()

print()

x="select check\_out\_date from guest;"

cur.execute(x)

rec=cur.fetchall()

cur.execute("select curdate();")

p=cur.fetchall()

for a in rec:

print(a)

w=p[0]

if w[0]>=a[0]:

w="select name from guest where check\_out\_date='%s';" %(a[0])

cur.execute(w)

rec=cur.fetchall()

w=rec[0]

print(w[0]," need to be informed that he has not checked out and has extra charges of rupees 500")

print()

if ch==10:

print()

print("records of the person who checked out")

s=input("press Enter to contunue")

print()

print()

x="select \* from past\_records;"

cur.execute(x)

rec=cur.fetchall()

for a in rec:

print("id",a[0],'\n'"name",a[1],'\n'"check\_in\_date",a[2],'\n'"check\_out\_date",a[3],'\n'"room\_no",a[4],'\n'"mobile no"\

,a[5],'\n'"address",a[6],'\n'"city",a[7],'\n'"no\_of\_day\_stay",a[8],'\n'"bill",a[9],'\n'"mode\_of\_payment",a[10],'\n')

print()

print()

if ch==11:

print()

print("SHOWING NO OF PERSONS LODGED IN DIFFERENT MONTHS")

print()

print()

s=input("press Enter to continue")

print()

lst=[]

lst1=[]

lst2=['January','February','March','April','May','June','July','August','September','October','November','December']

m="select check\_in\_date from guest;"

cur.execute(m)

rec=cur.fetchall()

for a in rec:

print(a)

c=a[0]

v="select monthname('%s');"%(c,)

cur.execute(v)

rec=cur.fetchall()

for x in rec:

lst1.append(x[0])

## print(lst1)

print()

for a in lst2:

m=lst1.count(str(a))

print(m)

lst.append(m)

## print(lst)

print()

n=np.arange(len(lst))

## print(n)

plt.bar(n,lst,color='b',width=0.50)

plt.title("bar chart")

plt.xticks(n,lst2)

plt.xlabel("X")

plt.ylabel("Y")

plt.show()

print()

print()

if ch==12:

print()

print("SHOWING CITY-WISE DISTRIBUTION")

s=input("press Enter to continue")

print()

lst1=[]

lst2=[]

k="select count(\*),city from guest group by city;"

cur.execute(k)

rec=cur.fetchall()

print(rec)

print()

for a in rec:

print(a)

lst1.append(a[0])

lst2.append(a[1])

plt.axis("equal")

plt.pie(lst1,labels=lst2)

plt.show()

print()

if ch==13:

print()

print("deleting records")

print()

s=input("press Enter to continue")

print()

x=input("records of which table you want to delete:guest/rooms/past\_records")

print()

if x=="guest":

print()

n="delete from guest"

cur.execute(n)

d.commit()

print("records deleted")

print()

if x=="rooms":

print()

m="delete from rooms"

cur.execute(m)

d.commit()

print("records deleted")

print()

if x=="past\_records":

print()

m="delete from past\_records"

cur.execute(m)

d.commit()

print("records deleted")

print()

if ch==14:

print()

print()

break

"""OUTPUT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*HOTEL MANAGEMENT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

it includes the following '

'

adding the information '

'

getting guest information who are lodged in '

'

checkin for a particular guest '

'

updating the records '

'

checking the availability of rooms'

'

displaying the features of rooms '

'

preparing a bill for the guest '

'

showing monthly visit '

'

showing city wise distribution '

'

collecting the past records of the guest '

'

\*\*\*\*\*\*\*\*CODING\*\*\*\*\*\*\*\*\*

succesfully connected

press Enter to continue

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above1

\*\*\*\*

displaying records

press Enter to continue

which table you want to display:guest/roomsguest

records of table guest

press Enter to continue

id 1045

name ritikagoyal

check\_in\_date 2020-01-15

check\_out\_date 2020-01-25

room\_no 103

mobile no 8928383838

address A-2

city noida

no\_of\_day\_stay 10

id 1067

name aarti

check\_in\_date 2019-12-31

check\_out\_date 2020-01-20

room\_no 100

mobile no 9213977468

address C-2

city noida

no\_of\_day\_stay 21

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above1

\*\*\*\*

displaying records

press Enter to continue

which table you want to display:guest/roomsrooms

details of table rooms

press Enter to continue

room\_no 100

rent\_per\_day 1300

room\_type AC

capacity 4

room\_no 102

rent\_per\_day 1300

room\_type luxurious

capacity 3

room\_no 103

rent\_per\_day 1000

room\_type NON-AC

capacity 5

room\_no 105

rent\_per\_day 1400

room\_type AC

capacity 5

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above2

\*\*\*\*

adding records

press Enter to continue

in which table you want to add records:guest/roomsguest

WELCOME

Enter records in table guest

press Enter to continue

enter no of records1

enter check\_in\_date2020-01-20

enter namerashmi

enter check\_out\_date2020-01-30

enter id1090

enter mobile no82827282

enter addressA-2

enter citydelhi

enter no of day stay10

enter rooom no105

records added

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above3

\*\*\*\*

Enter check\_out\_date for modify

press Enter to continue

how many records you want to update1

whose check\_out\_date you want to updateaarti

old date2020-01-20

updated date2020-01-20

record updated

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above4

\*\*\*\*

enter rent\_per\_day for modify

press Enter to continue

For how many rooms you want to update the rent1

For which room no. you want to update the rent:100-140103

old rent1000

updated rent1100

record updated

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above6

\*\*\*\*

searching for a guest

press Enter to continue

enter the name of the person to be searchedritikagoyal

details of the person

press Enter to continue

id 1045

name ritikagoyal

check\_in\_date 2020-01-15

check\_out\_date 2020-01-25

room\_no 103

mobile no 8928383838

address A-2

city noida

no\_of\_day\_stay 10

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above7

\*\*\*\*

checking whether is room is booked or vacant

press Enter to continue

enter room\_no:101-140105

already booked

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above8

\*\*\*\*\*

bill

press Enter to continue

bill of aarti is 27300

thanks for the visit aarti

inserting record of aarti in table past\_records

press Enter to continue

enter mode of paymentphone pe

record inserted in table past\_record

record of aarti deleted from table guest

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above9

\*\*\*\*

CHECKING FOR THE PERSONS WHOSE CHECKOUTDATE OUT HAS GONE BUT HAVE'NT CHECKOUT YET

press Enter to continue

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above10

\*\*\*\*

records of the person who checked out

press Enter to contunue

id 1021

name anjali

check\_in\_date 2019-10-20

check\_out\_date 2019-10-30

room\_no 100

mobile no 9213977469

address A-2

city delhi

no\_of\_day\_stay 10

bill 12000

mode\_of\_payment paytm

id 1034

name nidhisharma

check\_in\_date 2019-11-15

check\_out\_date 2019-11-20

room\_no 102

mobile no 921394848

address A-1

city noida

no\_of\_day\_stay 5

bill 6500

mode\_of\_payment BHIM UPI

id 1078

name shreyagupta

check\_in\_date 2020-01-10

check\_out\_date 2020-01-18

room\_no 100

mobile no 91239484

address A-3

city delhi

no\_of\_day\_stay 8

bill 10400

mode\_of\_payment paytm

id 1055

name aarti

check\_in\_date 2020-01-11

check\_out\_date 2020-01-20

room\_no 105

mobile no 921394944

address A-1

city noida

no\_of\_day\_stay 9

bill 13500

mode\_of\_payment phone pe

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above11

\*\*\*\*\*

SHOWING NO OF PRESENT GUEST LODGED IN DIFFERENT MONTHS

press Enter to continue

(datetime.date(2020, 1, 15),)

(datetime.date(2019, 12, 31),)

(datetime.date(2020, 1, 20),)

2

0

0

0

0

0

0

0

0

0

0

1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above12

\*\*\*\*

SHOWING CITY-WISE DISTRIBUTION OF THE PRESENT GUEST IN THE HOTEL

press Enter to continue

[(2, 'delhi'), (1, 'noida')]

(2, 'delhi')

(1, 'noida')

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*'

'Menu'

'\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.display records

2.add records

3.update records of table guest

4.update records of table rooms

5.delete records

6.searching for a guest

7.checking room

8.generate bill

9.checking the guest

10.display past records

11.bar chart:showing monthly visit

12.pie chart:showing city wise distribution

13.delete all records

14.exit

enter your choice from above14

\*\*\*\*"""