# HOTEL MANAGEMENT SYSTEM

BY AVANTIKA CHAUHAN
OF XII-A

------------------------------------------------------------------------

2020-21

COMPUTER SCIENCE (083)

# CERTIFICATE

This is to certify that *"Avantika Chauhan"*, a student of class XII-A of D.A.V. Public School, Jasola Vihar has successfully performed the project in session '2020-21' on the topic *"Hotel Management System"* in computer science under my Supervision.

**Signature (External Examiner)**          **Signature (Subject Teacher)**

# ACKNOWLEDGEMENTS

I wish to express my deep gratitude and sincere thanks to Principal, Mr. V.K. Barthwal, DAV Public School, Jasola Vihar, for his encouragement and for all the facilities that he provided for this project work. This project would not have been feasible without the proper rigorous guidance of computer science teacher Ms. Anjali Arora who guided me throughout this project in every possible way. I take this opportunity to express my deep sense of gratitude for her invaluable guidance, constant encouragement, constructive comments, sympathetic attitude and immense motivation, which has sustained my efforts at all stages of this project work. Thereby, I would like to thank her for guiding me on a systematic basis. I can't forget to offer my sincere thanks to my classmates and parents who helped me to carry out this project work successfully & for their valuable advice & support, which I received from them time to time.

# CONTENTS

# INTRODUCTION

**The project starts with –**

Enter 1 - CUSTOMER DETAILS

Enter 2 - BOOKING RECORD

Enter 3 - ROOM RENT

Enter 4 - RESTAURENT BILL

Enter 5 - DISPLAY CUSTOMER DETAILS

Enter 6 - TOTAL BILL

Enter 7 - OLD BILL

Enter 8- EXIT

**PROCESS**

FIRSTLY, I had done the planning in a paper work regarding what have to do on the assigned project **HOTEL MANAGEMENT SYSTEM.**

SECONDLY, I discussed my planning with our subject teacher and then she provided us the right path to perform the work.

NEXT, I started my project on foot paths of my subject teacher.

THEN, I started my coding, coding took around 1 months for completion.

NEXT, I analysed the mistakes done and then I corrected them.

THEN, I prepared the project format as shown above.

# SYSTEM REQUIREMENTS OF THE PROJECT

### *Recommended System Requirements*

Processors: Intel® Core™ i3 processor 4300M at 2.60 GHz.

Disk space: 2 to 4 GB.

Operating systems: Windows® 10, MACOS, and UBUNTU.

Python Versions: 3.X.X or Higher.

### *Minimum System Requirements*

Processors: Intel Atom® processor or Intel® Core™ i3 processor.

Disk space: 1 GB.

Operating systems: Windows 7 or later, MACOS, and UBUNTU.

Python Versions: 2.7.X, 3.6.X.

### *Prerequisites before installing MySQL Connector Python*

You need root or administrator privileges to perform the installation process.

Python must be installed on your machine.

Note: – MySQL Connector Python requires python to be in the system's PATH. Installation fails if it doesn't find Python.

On Windows, If Python doesn't exist in the system's PATH, please manually add the directory containing python.exe yourself.

# PYTHON CODING

```python
# --------------------- HOTEL MANAGEMENT SYSTEM --------------------
# ------------------------- AVANTI HOTELS -------------------------


'''Designed and Maintained By :
"Avantika Chauhan - CLASS XII A - ROLL NO - 9 [ 2020-2021 ]" '''

import mysql.connector

#Declaration of global variables
myConnnection =""
cursor=""
username=""
password =""
roomrent = 0
restaurantbill = 0
grandTotal= 0
cid = ""

# MODULE TO CHECK  MYSQL CONNECTIVITY

def MYSQLconnectionCheck():
    global myConnection
    global username
    global password
    username = input("\nENTER MYSQL SERVER'S USERNAME: ")
    password = input("\nENTER MYSQL SERVER'S PASSWORD : ")
    myConnection = mysql.connector.connect(host="localhost", user=username,
passwd=password, auth_plugin='mysql_native_password')
    if myConnection:
        print("\nCONGRATULATIONS ! YOUR MYSQL CONNECTION HAS BEEN
ESTABLISHED !")
        cursor = myConnection.cursor()
        cursor.execute("Create database if not exists avanti_hotels;")
        cursor.execute("Commit")
        cursor.close()
        return myConnection
    else:
        print("\nERROR ESTABLISHING MYSQL CONNECTION CHECK USERNAME AND
PASSWORD !")

#MODULE TO ESTABLISH MYSQL CONNECTION

def MYSQLconnection ():
    global username
    global password
    global myConnection
    global cid
    myConnection=mysql.connector.connect(host="localhost", user=username,
```

```python
                passwd=password, database="avanti_hotels",

auth_plugin='mysql_native_password' )
    if myConnection:
        return myConnection
    else:
        print("\nERROR ESTABLISHING MYSQL CONNECTION !")
    myConnection.close()

def userEntry():
    global cid
    if myConnection:
        cursor=myConnection.cursor()
        createTable="CREATE TABLE IF NOT EXISTS C_DETAILS(CID
VARCHAR(20),C_NAME VARCHAR(30),C_ADDRESS VARCHAR(30),C_AGE VARCHAR(30),
C_COUNTRY VARCHAR(30) ,P_NO VARCHAR(30),C_EMAIL VARCHAR(30))"
        cursor.execute(createTable)
        cid = input("Enter Customer Identification Number  :  ")
        name = input("Enter Customer Name   :   ")
        address = input("Enter Customer Address   : ")
        age= input("Enter Customer Age   : ")
        nationality = input("Enter Customer Country   :   ")
        phoneno= input("Enter Customer Contact Number   :   ")
        email = input("Enter Customer Email   :   ")
        sql = "INSERT INTO C_Details VALUES(%s,%s,%s,%s,%s,%s,%s)"
        values= (cid,name,address,age,nationality,phoneno,email)
        cursor.execute(sql,values)
        cursor.execute("COMMIT")
        print("\nNew Customer Entered In The System Successfully !")
        cursor.close()
    else:
        print("\nERROR ESTABLISHING MYSQL CONNECTION !")


def bookingRecord():
    global cid
    customer=searchCustomer()
    if customer:
     if myConnection:
        cursor=myConnection.cursor()
        createTable ="CREATE TABLE IF NOT EXISTS BOOKING_RECORD(CID
VARCHAR(20),CHECK_IN DATE ,CHECK_OUT DATE);"
        cursor.execute(createTable)
        checkin=input("\nEnter Customer CheckIN Date [ YYYY-MM-DD ]  :   ")
        checkout=input("\nEnter Customer CheckOUT Date [ YYYY-MM-DD ]  :
")
        sql= "INSERT INTO BOOKING_RECORD VALUES(%s,%s,%s);"
        values= (cid,checkin,checkout)
        cursor.execute(sql,values)
        cursor.execute("COMMIT")
        print("\nCHECK-IN AND CHECK-OUT ENTRY MADED SUCCESSFULLY !")
        cursor.close()
```

```python
        else:
          print("\nERROR ESTABLISHING MYSQL CONNECTION !")


def roomRent():
    global cid
    customer=searchCustomer()
    if customer:
        global roomrent
        if myConnection:
            cursor=myConnection.cursor()
            createTable ="CREATE TABLE IF NOT EXISTS ROOM_RENT(CID
VARCHAR(20),ROOM_CHOICE INT,NO_OF_DAYS INT,ROOMNO INT ,ROOMRENT INT)"
            cursor.execute(createTable)
            print ("\n ##### We have The Following Rooms For You #####")
            print (" 1. Ultra Royal ----> 10000 Rs.")
            print (" 2. Royal ----> 5000 Rs. ")
            print (" 3. Elite ----> 3500 Rs. ")
            print (" 4. Budget ----> 2500 Rs. ")
            roomchoice =int(input("Enter Your Option : "))
            roomno=int(input("Enter Customer Room No : "))
            noofdays=int(input("Enter No. Of Days : "))
            if roomchoice==1:
                roomrent = noofdays * 10000
                print("\nUltra Royal Room Rent : ",roomrent)
            elif roomchoice==2:
                roomrent = noofdays * 5000
                print("\nRoyal Room Rent : ",roomrent)
            elif roomchoice==3:
                roomrent =noofdays * 3500
                print("\nElite Royal Room Rent : ",roomrent)
            elif roomchoice==4:
                roomrent = noofdays * 2500
                print("\nBudget Room Rent : ",roomrent)
            else:
                print("Sorry, Invalid input, Please Try Again ! ")
                return
            sql="INSERT INTO ROOM_RENT VALUES(%s,%s,%s,%s,%s)"
            values= (cid,roomchoice,noofdays,roomno,roomrent,)
            cursor.execute(sql,values)
            cursor.execute("COMMIT")
            print("Thank You , Your Room Has Been Booked For : ",noofdays ,
"Days" )
            print("Your Total Room Rent is : Rs. ",roomrent)
            cursor.close()
        else:
            print("\nERROR ESTABLISHING MYSQL CONNECTION !")

def Restaurant():
    global cid
    customer=searchCustomer()
    if customer:
```

```python
        global restaurantbill
        if myConnection:
            cursor=myConnection.cursor()
            createTable="""CREATE TABLE IF NOT EXISTS RESTAURANT(CID
VARCHAR(20),CUISINE VARCHAR(30),QUANTITY VARCHAR(30),BILL VARCHAR(30))"""
            cursor.execute(createTable)
            print("1. North Indian Thali -----> 300 Rs.")
            print("2. South Indian Thali -----> 500 Rs.")
            print("3. Chinese Combo -----> 550 Rs.")
            print("4. Italian Combo -----> 600 Rs.")
            print("5. Vegetarian & Non-Vegetarian Combo -----> 750 Rs.")

            choice_dish= int(input("Enter Your Cuisine : "))
            quantity = int(input("Enter Quantity : "))
            if choice_dish == 1:
                print("\nSO YOU HAVE ORDER: North Indian Thali ")
                restaurantbill = quantity * 300
            elif choice_dish == 2:
                print("\nSO YOU HAVE ORDER: South Indian Thali ")
                restaurantbill = quantity * 500
            elif choice_dish == 3:
                print("\nSO YOU HAVE ORDER: Chinese Combo ")
                restaurantbill = quantity * 550
            elif choice_dish == 4:
                print("\nSO YOU HAVE ORDER: Italian Combo ")
                restaurantbill = quantity * 600
            elif choice_dish == 5:
                print("\nSO YOU HAVE ORDER: Vegetarian & Non-Vegetarian
Combo ")

                restaurantbill = quantity * 750
            else:
                print("Sorry, Invalid input, Please Try Again ! ")
                return
            sql = "INSERT INTO restaurant VALUES(%s,%s,%s,%s)"
            values = (cid, choice_dish, quantity, restaurantbill)
            cursor.execute(sql, values)
            cursor.execute("COMMIT")
            print("Your Total Bill Amount Is : Rs. ", restaurantbill)
            print("\n\n**** WE HOPE YOU WILL ENJOY YOUR MEAL **\n\n")
            cursor.close()
        else:
            print("\nERROR ESTABLISHING MYSQL CONNECTION !")

def totalAmount():
    global cid
    customer=searchCustomer()
    if customer:
        global grandTotal
        global roomrent
        global restaurantbill
        if myConnection:
            cursor=myConnection.cursor()
```

```python
            createTable ="CREATE TABLE IF NOT EXISTS TOTAL(CID
VARCHAR(20),C_NAME VARCHAR(30),ROOMRENT INT ,RESTAURANTBILL INT
,TOTALAMOUNT INT)"
            cursor.execute(createTable)
            sql="INSERT INTO TOTAL VALUES(%s,%s,%s,%s,%s)"
            name = input("Enter Customer Name : ")
            grandTotal=roomrent+restaurantbill
            values=(cid,name,roomrent,restaurantbill,grandTotal)
            cursor.execute(sql,values)
            cursor.execute("COMMIT")
            cursor.close()
            print("\n **** AVANTI HOTELS **** CUSTOMER BILLING ****")
            print("\n CUSTOMER NAME : ",name)
            print("\nROOM RENT : Rs. ",roomrent)
            print("\nRESTAURANT BILL : Rs. ",restaurantbill)
            print("_____")
            print("\nTOTAL AMOUNT : Rs. ",grandTotal)
            cursor.close()
        else:
            print("\nERROR ESTABLISHING MYSQL CONNECTION !")

def OldBill():
    global cid
    customer=searchCustomer()
    if customer:
        if myConnection:
            cursor=myConnection.cursor()
            sql="SELECT * FROM TOTAL WHERE CID= %s"
            cursor.execute(sql,(cid,))
            data=cursor.fetchall()
            if data:
                print(data)
            else:
                print("Record Not Found Try Again !")
                cursor.close()
    else:
        print("\nsomething Went Wrong ,Please Try Again !")

def searchCustomer():
    global cid
    if myConnection:
        cursor=myConnection.cursor()
        cid=input("ENTER CUSTOMER ID : ")
        sql="SELECT * FROM C_DETAILS WHERE CID= %s"
        cursor.execute(sql,(cid,))
        data=cursor.fetchall()
        if data:
            print(data)
            return True
        else:
            print("Record Not Found Try Again !")
            return False
```

```python
            cursor.close()
        else:
            print("\nsomething Went Wrong ,Please Try Again !")


print("""-------------------- HOTEL MANAGEMENT SYSTEM
--------------------
------------------------- AVANTI HOTELS ----------------------------
Designed and Maintained By :
Avantika Chauhan - CLASS XII A - ROLL NO - 9 [ 2020-2021 ]""")

myConnection = MYSQLconnectionCheck()
if myConnection:
    MYSQLconnection()
    while True:
        print("""
        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT """)
        choice = int(input("Enter Your Choice"))
        if choice == 1:
            userEntry()
        elif choice == 2:
            bookingRecord()
        elif choice == 3:
            roomRent()
        elif choice == 4:
            Restaurant()
        elif choice == 5:
            searchCustomer()
        elif choice == 6:
            totalAmount()
        elif choice == 7:
            OldBill()
        elif choice == 8:
            break
        else:
            print("Sorry, Invalid input, Please Try Again ! ")
else:
    print("\nERROR ESTABLISHING MYSQL CONNECTION !")
```

# OUTPUT OF THE PROJECT

## MAIN SCREEN

```
Run:    avantihotels ×

C:\ProgramData\Anaconda3\python.exe C:/Users/saksh/PycharmProjects/pythonProject/avantihotels.py
-------------------- HOTEL MANAGEMENT SYSTEM --------------------
------------------------- AVANTI HOTELS -------------------------
Designed and Maintained By :
Avantika Chauhan - CLASS XII A - ROLL NO - 9 [ 2020-2021 ]

ENTER MYSQL SERVER'S USERNAME:
```

## USER AUTHENTICATION

```
Run:    avantihotels ×

C:\ProgramData\Anaconda3\python.exe C:/Users/saksh/PycharmProjects/pythonProject/avantihotels.py
-------------------- HOTEL MANAGEMENT SYSTEM --------------------
------------------------- AVANTI HOTELS -------------------------
Designed and Maintained By :
Avantika Chauhan - CLASS XII A - ROLL NO - 9 [ 2020-2021 ]

ENTER MYSQL SERVER'S USERNAME: root

ENTER MYSQL SERVER'S PASSWORD : 12345678

CONGRATULATIONS ! YOUR MYSQL CONNECTION HAS BEEN ESTABLISHED !

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice
```

# COSTUMER DETAILS

```
Run:    avantihotels

ENTER MYSQL SERVER'S USERNAME: root

ENTER MYSQL SERVER'S PASSWORD : 12345678

CONGRATULATIONS ! YOUR MYSQL CONNECTION HAS BEEN ESTABLISHED !

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice1
Enter Customer Identification Number  :  C101
Enter Customer Name  :  Aisha
Enter Customer Address  : A-11, Sarita Vihar, New Delhi
Enter Customer Age  : 27
Enter Customer Country  :  India
Enter Customer Contact Number  :  8090900000
Enter Customer Email  :  aisha22@gmail.com

New Customer Entered In The System Successfully !

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice
```

# CUSTOMER BOOKING RECORDS

```
Run:    avantihotels

Enter Customer Address  :  A-11, Sarita Vihar, New Delhi
Enter Customer Age  :  27
Enter Customer Country  :  India
Enter Customer Contact Number  :  8090900000
Enter Customer Email  :  aisha22@gmail.com

New Customer Entered In The System Successfully !

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice2
ENTER CUSTOMER ID : C101
[('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]

Enter Customer CheckIN Date [ YYYY-MM-DD ]  :   2021-02-01

Enter Customer CheckOUT Date [ YYYY-MM-DD ]  :   2021-02-05

CHECK-IN AND CHECK-OUT ENTRY MADED SUCCESSFULLY !

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice
```

# ROOM RENT

```
Run:    avantihotels

            1--->Enter Customer Details
            2--->Booking Record
            3--->Calculate Room Rent
            4--->Calculate Restaurant Bill
            5--->Display Customer Details
            6--->GENERATE TOTAL BILL AMOUNT
            7--->GENERATE OLD BILL
            8--->EXIT
Enter Your Choice3
ENTER CUSTOMER ID : C101
[('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]

 ##### We have The Following Rooms For You #####
 1. Ultra Royal ----> 10000 Rs.
 2. Royal ----> 5000 Rs.
 3. Elite ----> 3500 Rs.
 4. Budget ----> 2500 Rs.
Enter Your Option : 1
Enter Customer Room No : 101
Enter No. Of Days : 5

Ultra Royal Room Rent :  50000
Thank You , Your Room Has Been Booked For :  5 Days
Your Total Room Rent is : Rs.  50000

            1--->Enter Customer Details
            2--->Booking Record
            3--->Calculate Room Rent
            4--->Calculate Restaurant Bill
            5--->Display Customer Details
            6--->GENERATE TOTAL BILL AMOUNT
            7--->GENERATE OLD BILL
            8--->EXIT
Enter Your Choice

Run    TODO   Problems   Terminal   Python Console                                    Event Log
```

# RESTAURENT BILL

```
Run:    avantihotels

            1--->Enter Customer Details
            2--->Booking Record
            3--->Calculate Room Rent
            4--->Calculate Restaurant Bill
            5--->Display Customer Details
            6--->GENERATE TOTAL BILL AMOUNT
            7--->GENERATE OLD BILL
            8--->EXIT
Enter Your Choice4
ENTER CUSTOMER ID : C101
[('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]
1. North Indian Thali -----> 300 Rs.
2. South Indian Thali -----> 500 Rs.
3. Chinese Combo -----> 550 Rs.
4. Italian Combo -----> 600 Rs.
5. Vegetarian & Non-Vegetarian Combo -----> 750 Rs.
Enter Your Cuisine : 3
Enter Quantity : 4

SO YOU HAVE ORDER: Chinese Combo
Your Total Bill Amount Is : Rs.  2200


**** WE HOPE YOU WILL ENJOY YOUR MEAL ***


            1--->Enter Customer Details
            2--->Booking Record
            3--->Calculate Room Rent
            4--->Calculate Restaurant Bill
            5--->Display Customer Details
            6--->GENERATE TOTAL BILL AMOUNT
            7--->GENERATE OLD BILL

Run    TODO   Problems   Terminal   Python Console                                    Event Log
```

# DETAILS OF THE CUSTOMER

```
Run:    avantihotels

3. Chinese Combo -----> 550 Rs.
4. Italian Combo -----> 600 Rs.
5. Vegetarian & Non-Vegetarian Combo -----> 750 Rs.
Enter Your Cuisine : 3
Enter Quantity : 4

SO YOU HAVE ORDER: Vegetarian & Non-Vegetarian Combo
Your Total Bill Amount Is : Rs.  3000


**** WE HOPE YOU WILL ENJOY YOUR MEAL ***


        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice5
ENTER CUSTOMER ID : C101
[('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]


        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choicesssss

Run    TODO    Problems    Terminal    Python Console                                              Event Log
```

# TOTAL BILL

```
Run:    avantihotels

Your Total Room Rent is : Rs.  50000

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice6
ENTER CUSTOMER ID : C101
[('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]
Enter Customer Name : Aisha

  **** AVANTI HOTELS **** CUSTOMER BILLING ****

  CUSTOMER NAME :  Aisha

ROOM RENT : Rs.  50000

RESTAURANT BILL : Rs.  2200
-------------------------------------------------

TOTAL AMOUNT : Rs.  52200

        1--->Enter Customer Details
        2--->Booking Record
        3--->Calculate Room Rent
        4--->Calculate Restaurant Bill
        5--->Display Customer Details
        6--->GENERATE TOTAL BILL AMOUNT
        7--->GENERATE OLD BILL
        8--->EXIT
Enter Your Choice

Run    TODO    Problems    Terminal    Python Console                                              Event Log
"One Dark theme" plugin update available // Update // Plugin Settings... // Ignore this update (52 minutes ago)   97:18  CRLF  UTF-8  4 spaces  Python 3.8 (base)
```

# OLD BILL

```
Run:    avantihotels

      Enter Customer Name : Aisha

        **** AVANTI HOTELS **** CUSTOMER BILLING ****

         CUSTOMER NAME :  Aisha

      ROOM RENT : Rs.  50000

         RESTAURANT BILL : Rs.  2200
         ---------------------------------------------------

         TOTAL AMOUNT : Rs.  52200

                 1--->Enter Customer Details
                 2--->Booking Record
                 3--->Calculate Room Rent
                 4--->Calculate Restaurant Bill
                 5--->Display Customer Details
                 6--->GENERATE TOTAL BILL AMOUNT
                 7--->GENERATE OLD BILL
                 8--->EXIT
      Enter Your Choice7
      ENTER CUSTOMER ID : C101
      [('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]
      [('C101', 'Aisha', 0, 0, 0), ('C101', 'Aisha', 0, 3000, 3000), ('C101', 'Aisha', 50000, 3000, 53000), ('C101', 'Aisha', 50000, 2200, 52200)]

                 1--->Enter Customer Details
                 2--->Booking Record
                 3--->Calculate Room Rent
                 4--->Calculate Restaurant Bill
                 5--->Display Customer Details
                 6--->GENERATE TOTAL BILL AMOUNT
                 7--->GENERATE OLD BILL
                 8--->EXIT
      Enter Your Choice

Run:    TODO    Problems    Terminal    Python Console                                                    Event Log
```

# EXIT

```
Run:    avantihotels

         CUSTOMER NAME :  Aisha

      ROOM RENT : Rs.  50000

         RESTAURANT BILL : Rs.  2200
         ---------------------------------------------------

         TOTAL AMOUNT : Rs.  52200

                 1--->Enter Customer Details
                 2--->Booking Record
                 3--->Calculate Room Rent
                 4--->Calculate Restaurant Bill
                 5--->Display Customer Details
                 6--->GENERATE TOTAL BILL AMOUNT
                 7--->GENERATE OLD BILL
                 8--->EXIT
      Enter Your Choice7
      ENTER CUSTOMER ID : C101
      [('C101', 'Aisha', 'A-11, Sarita Vihar, New Delhi', '27', 'India', '8090900000', 'aisha22@gmail.com')]
      [('C101', 'Aisha', 0, 0, 0), ('C101', 'Aisha', 0, 3000, 3000), ('C101', 'Aisha', 50000, 3000, 53000), ('C101', 'Aisha', 50000, 2200, 52200)]

                 1--->Enter Customer Details
                 2--->Booking Record
                 3--->Calculate Room Rent
                 4--->Calculate Restaurant Bill
                 5--->Display Customer Details
                 6--->GENERATE TOTAL BILL AMOUNT
                 7--->GENERATE OLD BILL
                 8--->EXIT
      Enter Your Choice8

      Process finished with exit code 0

Run:    TODO    Problems    Terminal    Python Console                                                    Event Log
```

# MYSQL DATABASE AND TABLES USED IN THIS PROJECT

## Database



```
MySQL 8.0 Command Line Client
Your MySQL connection id is 95
Server version: 8.0.22 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use avanti_hotels;
Database changed
mysql> show tables;
+-----------------------+
| Tables_in_avanti_hotels |
+-----------------------+
| booking_record        |
| c_details             |
| restaurant            |
| room_rent             |
| total                 |
+-----------------------+
5 rows in set (0.01 sec)

mysql>
```

## Table Structure 1 & 2



```
MySQL 8.0 Command Line Client

mysql> describe booking_record;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| CID       | varchar(20) | YES  |     | NULL    |       |
| CHECK_IN  | date        | YES  |     | NULL    |       |
| CHECK_OUT | date        | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
3 rows in set (0.01 sec)

mysql> describe c_details;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| CID       | varchar(20) | YES  |     | NULL    |       |
| C_NAME    | varchar(30) | YES  |     | NULL    |       |
| C_ADDRESS | varchar(30) | YES  |     | NULL    |       |
| C_AGE     | varchar(30) | YES  |     | NULL    |       |
| C_COUNTRY | varchar(30) | YES  |     | NULL    |       |
| P_NO      | varchar(30) | YES  |     | NULL    |       |
| C_EMAIL   | varchar(30) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql>
```

# Table Structure 3 & 4

```
MySQL 8.0 Command Line Client

mysql> describe restaurant;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| CID      | varchar(20) | YES  |     | NULL    |       |
| CUISINE  | varchar(30) | YES  |     | NULL    |       |
| QUANTITY | varchar(30) | YES  |     | NULL    |       |
| BILL     | varchar(30) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> describe room_rent;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| CID         | varchar(20) | YES  |     | NULL    |       |
| ROOM_CHOICE | int         | YES  |     | NULL    |       |
| NO_OF_DAYS  | int         | YES  |     | NULL    |       |
| ROOMNO      | int         | YES  |     | NULL    |       |
| ROOMRENT    | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql>
```

# Table Structure 5

```
MySQL 8.0 Command Line Client

mysql> describe total;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| CID            | varchar(20) | YES  |     | NULL    |       |
| C_NAME         | varchar(30) | YES  |     | NULL    |       |
| ROOMRENT       | int         | YES  |     | NULL    |       |
| RESTAURANTBILL | int         | YES  |     | NULL    |       |
| TOTALAMOUNT    | int         | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql>
```

# BACKEND DATA GENERATED THROUGH SOFTWARE

```
MySQL 8.0 Command Line Client

mysql> select * from booking_record order by cid;
+------+------------+------------+
| CID  | CHECK_IN   | CHECK_OUT  |
+------+------------+------------+
| C101 | 2021-02-01 | 2021-02-05 |
| C102 | 2021-01-01 | 2021-01-03 |
| C103 | 2021-01-15 | 2021-01-25 |
| C104 | 2020-12-12 | 2020-12-20 |
| C105 | 2020-12-01 | 2020-12-05 |
+------+------------+------------+
5 rows in set (0.00 sec)

mysql> select * from c_details order by cid;
+------+-----------+-------------------------------+-------+-----------+------------+----------------------+
| CID  | C_NAME    | C_ADDRESS                     | C_AGE | C_COUNTRY | P_NO       | C_EMAIL              |
+------+-----------+-------------------------------+-------+-----------+------------+----------------------+
| C101 | Aisha     | A-11, Sarita Vihar, New Delhi | 27    | India     | 8090900000 | aisha22@gmail.com    |
| C102 | Harry     | 54, Jaipur, Rajasthan         | 18    | India     | 9923499201 | harrys12@gmail       |
| C103 | Sia       | 54, Park Avenue, LA           | 30    | LA        | 9923422201 | siaofficial@gmai.com |
| C104 | Ed Sheeran| 99, Vineyard                  | 32    | USA       | 6788990011 | itssheeran@gmail.com |
| C105 | Avni      | 678, Sunworld Vanalika, Noida | 17    | India     | 9999999990 | avni@gmail.com       |
+------+-----------+-------------------------------+-------+-----------+------------+----------------------+
5 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

mysql> select * from restaurant order by cid;
+------+---------+----------+------+
| CID  | CUISINE | QUANTITY | BILL |
+------+---------+----------+------+
| C101 | 3       | 4        | 2200 |
| C102 | 5       | 3        | 2250 |
| C103 | 4       | 5        | 3000 |
| C104 | 4       | 7        | 4200 |
| C105 | 3       | 2        | 1100 |
+------+---------+----------+------+
5 rows in set (0.00 sec)

mysql> select * from room_rent order by cid;
+------+-------------+------------+--------+----------+
| CID  | ROOM_CHOICE | NO_OF_DAYS | ROOMNO | ROOMRENT |
+------+-------------+------------+--------+----------+
| C101 |           1 |          5 |    101 |    50000 |
| C102 |           3 |          3 |    106 |    10500 |
| C103 |           4 |         10 |    109 |    25000 |
| C104 |           2 |          9 |    111 |    45000 |
| C105 |           1 |          5 |    119 |    50000 |
+------+-------------+------------+--------+----------+
5 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client

mysql> select * from total order by cid;
+------+--------+----------+----------------+-------------+
| CID  | C_NAME | ROOMRENT | RESTAURANTBILL | TOTALAMOUNT |
+------+--------+----------+----------------+-------------+
| C101 | Aisha  |        0 |              0 |           0 |
| C101 | Aisha  |        0 |           3000 |        3000 |
| C101 | Aisha  |    50000 |           3000 |       53000 |
| C101 | Aisha  |    50000 |           2200 |       52200 |
| C102 | Harry  |    10500 |           1200 |       11700 |
+------+--------+----------+----------------+-------------+
5 rows in set (0.00 sec)

mysql>
```

# References

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5. Google's Python Class
6. LearnPython.org
7. layak.in
8. Google Collab