1 Database

Figure 1: Database Tables

2 Database Tables Before the Implementation of Python Program

Figure 2: cust_book Table

```
mysql> select * from customer;
+------+--------+-----------+------------+-------------+
| r_no | name   | addr      | phno       | room_status |
+------+--------+-----------+------------+-------------+
| 1221 | Rishi  | Chennai   |  567891234 | reserved    |
| 1234 | RAJ    | CHENNAI   | 3456789012 | reserved    |
| 1256 | Aditya | Mumbai    | 7689032145 | reserved    |
| 1331 | Harsh  | Pune      | 7658900908 | reserved    |
| 1899 | Rohit  | Mumbai    | 7890905643 | reserved    |
| 2000 | Rohan  | Bangalore | 7251494909 | reserved    |
| 2001 | Manjot | Bangalore | 7410959809 | reserved    |
| 2002 | Chirag | Kolkata   | 9456789010 | reserved    |
+------+--------+-----------+------------+-------------+
8 rows in set (0.01 sec)
```

Figure 3: customer Table

```
mysql> select * from rooms;
+---------+-----------+-----------+----------+
| room_no | room_type | room_rent | status   |
+---------+-----------+-----------+----------+
|     101 | AC        |   3200.00 | free     |
|     102 | AC        |   3200.00 | reserved |
|     103 | AC        |   3200.00 | free     |
|     104 | AC        |   3200.00 | free     |
|     105 | AC        |   3200.00 | free     |
|     106 | NONAC     |   2200.00 | free     |
|     107 | NONAC     |   2200.00 | reserved |
|     108 | NONAC     |   2200.00 | reserved |
|     109 | NONAC     |   2200.00 | reserved |
|     110 | NONAC     |   2200.00 | reserved |
|     111 | DELUX     |   3000.00 | reserved |
|     112 | DELUX     |   3000.00 | free     |
|     113 | DELUX     |   3000.00 | reserved |
|     114 | DELUX     |   3000.00 | free     |
+---------+-----------+-----------+----------+
14 rows in set (0.01 sec)
```

Figure 4: rooms Table

```
mysql> select * from bill;
+--------+---------+--------+-----------+---------+------+---------+------+
| reg_no | no_days | ch_out | total_amt | room_no | paid | advance | menu |
+--------+---------+--------+-----------+---------+------+---------+------+
|   1234 |       4 | NULL   |      NULL |    NULL | NULL |    NULL | NULL |
+--------+---------+--------+-----------+---------+------+---------+------+
1 row in set (0.01 sec)
```

Figure 5: bill Table

3 Python Implementation

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:\Users\Rachit Bhushan\Downloads\Hotel Management System_Python.py =


    -------------------------------------------------------------------------------
    |                            1. ADMIN      2.  USER                             |
    -------------------------------------------------------------------------------



                            Enter your choice::    1


                       Enter the ADMIN password::    123

----------------------WELCOME TO ADMIN PANEL----------------------------
|                      ---------------------                           |
|                          1. SHOW                                     |
|                          2. UPDATE                                   |
|                          3. DELETE                                   |
 ----------------------------------------------------------------------

                       Enter your choice::    1

----------------------------SHOW--------------------------------------
|                          1. BOOKING DETAILS                         |
|                          2. CUSTOMER INFORMATION                    |
|                          3. ROOMS                                   |
|                          4. BILLS                                   |
 --------------------------------------------------------------------

Enter your choice:: 1
```

Figure 6

```
| Rg_N |Name of Customer| Rm_No | Ch_In_Date | ch_Out_Date |Fd_Type|Advance|Room_Type|
| ---- |----------------| ----- | ---------- | ----------- |-------|-------|---------|
 1221    Rishi            111     2025-02-02   2025-02-04    NONVEG   1200.0    DELUX

 1234    RAJ              105     2025-01-02   2025-01-04    NONVEG   1500.0    AC

 1256    Aditya           107     2025-01-01   2025-01-04    VEG      1200.0   NONAC

 1331    Harsh            110     2025-01-10   2025-01-13    VEG      2000.0   NONAC

 1899    Rohit            108     2024-12-12   2024-12-13    NONVEG   1200.0    NONAC

 2000    Rohan            102     2025-02-08   2025-02-10    VEG      1300.0   AC

 2001    Manjot           113     2025-01-04   2025-01-07    VEG      1200.0    DELUX

 2002    Chirag           109     2025-03-11   2025-03-12    VEG      1000.0   NONAC


----------------------------SHOW--------------------------------------
|                          1. BOOKING DETAILS                         |
|                          2. CUSTOMER INFORMATION                    |
|                          3. ROOMS                                   |
|                          4. BILLS                                   |
 --------------------------------------------------------------------

Enter your choice:: 2
```

Figure 7

3

```
| Rg_N |        Name        |    Address    |   Phone no    |  Status  |
| ---- |  ------------      |  ---------    |  ---------    | -------- |
  1221    Rishi               Chennai          567891234       reserved

  1234    RAJ                 CHENNAI          3456789012      reserved

  1256    Aditya              Mumbai           7689032145      reserved

  1331    Harsh               Pune             7658900908      reserved

  1899    Rohit               Mumbai           7890905643      reserved

  2000    Rohan               Bangalore        7251494909      reserved

  2001    Manjot              Bangalore        7410959809      reserved

  2002    Chirag              Kolkata          9456789010      reserved


----------------------------SHOW------------------------------------------
|                           1. BOOKING DETAILS                            |
|                           2. CUSTOMER INFORMATION                       |
|                           3. ROOMS                                      |
|                           4. BILLS                                      |
 -------------------------------------------------------------------------

Enter your choice:: 3
```

Figure 8

```
|RoomNo| RoomType | RoomRent | Status |
-----------------------------------------
  101      AC         3200.0    free
  102      AC         3200.0    reserved
  103      AC         3200.0    free
  104      AC         3200.0    free
  105      AC         3200.0    free
  106      NONAC      2200.0    free
  107      NONAC      2200.0    reserved
  108      NONAC      2200.0    reserved
  109      NONAC      2200.0    reserved
  110      NONAC      2200.0    reserved
  111      DELUX      3000.0    reserved
  112      DELUX      3000.0    free
  113      DELUX      3000.0    reserved
  114      DELUX      3000.0    FREE

----------------------------SHOW------------------------------------------
|                           1. BOOKING DETAILS                            |
|                           2. CUSTOMER INFORMATION                       |
|                           3. ROOMS                                      |
|                           4. BILLS                                      |
 -------------------------------------------------------------------------

Enter your choice:: 4

|RegNo| NoOfDays | CheckInDate | TotalAmt |RoomNo| Paid  | Advance |FoodType
--------------------------------------------------------------------------
1234      4        None      None       None    None    None     None
--------------------------------------------------------------------------


----------------------------SHOW------------------------------------------
|                           1. BOOKING DETAILS                            |
|                           2. CUSTOMER INFORMATION                       |
|                           3. ROOMS                                      |
|                           4. BILLS                                      |
 -------------------------------------------------------------------------

Enter your choice:: 0

do you want to continue to show details again? 1/0:: 0
```

Figure 9

```
----------------------WELCOME TO ADMIN PANEL---------------------------
|                      ---------------------                           |
|                          1. SHOW                                     |
|                          2. UPDATE                                   |
|                          3. DELETE                                   |
 ---------------------------------------------------------------------

                        Enter your choice::    2
  -------------------------UPDATE---------------------------------
|                       1. CUSTOMER INFORMATION                   |
|                       2. ROOMS                                  |
  ---------------------------------------------------------------

Enter your choice::1
| reg_no |       name      |     address   | phone number  |  room_status |
|------------------------------------------------------------------------|
    1221    Rishi              Chennai        567891234       reserved
    1234    RAJ                CHENNAI        3456789012      reserved
    1256    Aditya             Mumbai         7689032145      reserved
    1331    Harsh              Pune           7658900908      reserved
    1899    Rohit              Mumbai         7890905643      reserved
    2000    Rohan              Bangalore      7251494909      reserved
    2001    Manjot             Bangalore      7410959809      reserved
    2002    Chirag             Kolkata        9456789010      reserved


Enter the registration number whose information needs to be updated::1331
[('reserved',)]


Enter the name::Harshita
Enter the address::Ahmedabad
Enter the phone number::8445478900
```

Figure 10

```
                        Updated successfully

| Rg_N |        Name        |    Address    |  Phone no   |   Status   |
| ---- |  ------------      |   ---------   |  ---------  |  --------  |
  1221    Rishi                Chennai        567891234      reserved

  1234    RAJ                  CHENNAI        3456789012     reserved

  1256    Aditya               Mumbai         7689032145     reserved

  1331    Harshita             Ahmedabad      8445478900     reserved

  1899    Rohit                Mumbai         7890905643     reserved

  2000    Rohan                Bangalore      7251494909     reserved

  2001    Manjot               Bangalore      7410959809     reserved

  2002    Chirag               Kolkata        9456789010     reserved

Do u want to update customer's information again? 1/0::0
  -------------------------UPDATE---------------------------------
|                       1. CUSTOMER INFORMATION                   |
|                       2. ROOMS                                  |
  ---------------------------------------------------------------

Enter your choice::0


Do u want to continue with update 1/0::0
```

Figure 11

```
----------------------WELCOME TO ADMIN PANEL---------------------------
|                    ---------------------                              |
|                        1. SHOW                                       |
|                        2. UPDATE                                     |
|                        3. DELETE                                     |
 ---------------------------------------------------------------------

                    Enter your choice::    3
------------------DELETE INFORMATION--------------------
|                  1. ROOMS(delete if free)            |
|                  2. CUSTOMER INFORMATION             |
 ------------------------------------------------------

Enter your choice::  2
   reg_no   |     name    |     address   |    phone_no   |   status  |
----------------------------------------------------------------------
    1221    Rishi           Chennai        567891234       reserved
    1234    RAJ             CHENNAI        3456789012      reserved
    1256    Aditya          Mumbai         7689032145      reserved
    1331    Harshita        Ahmedabad      8445478900      reserved
    1899    Rohit           Mumbai         7890905643      reserved
    2000    Rohan           Bangalore      7251494909      reserved
    2001    Manjot          Bangalore      7410959809      reserved
    2002    Chirag          Kolkata        9456789010      reserved


Enter the registration number of customer whose information has to be deleted if his room status is free::2002
Registration number is not valid/room is already reserved, can't be deleted
 ------------------DELETE INFORMATION--------------------
|                  1. ROOMS(delete if free)            |
|                  2. CUSTOMER INFORMATION             |
 ------------------------------------------------------

Enter your choice::  0
Do u want to continue to delete information? 1/0 :: 0
```

Figure 12

```
----------------------WELCOME TO ADMIN PANEL-----------------------------
|                    ---------------------                                |
|                        1. SHOW                                         |
|                        2. UPDATE                                       |
|                        3. DELETE                                       |
 -----------------------------------------------------------------------

                    Enter your choice::     0


Do u want to continue SHOW/UPDATE/DELETE? 1/0::0

Do u want to continue ADMIN/USER PANEL 1/0?::1
```

Figure 13

6

```
-------------------------------------------------------------------------------------
|                        1. ADMIN      2.  USER                                      |
-------------------------------------------------------------------------------------



                           Enter your choice::     2

  ----------------------------------WELCOME TO USER PANEL----------------------------
|                                     1. BOOKING                                     |
|                                     2. BILL_GENERATE                               |
  ----------------------------------------------------------------------------------

Enter your choice::1
                                already registered numbers are::
                                --------------------------------
                                        1221
                                        1234
                                        1256
                                        1331
                                        1899
                                        2000
                                        2001
                                        2002
Enter the 4 digit registraton number to book for new customer::2003
Enter the name of customer::Shiv
Enter the address of customer::Delhi
Enter the phone number::9319223307
Enter the check-in date::2025-03-05
Enter the check-out date::2025-03-07
Enter the room type AC/DELUX/NONAC?::DELUX
Enter your menu type, VEG/NONVEG?::VEG
Enter the veg type::1. THAALI 2. SNACKS::1
Enter the advance amount above 1000::1200
              AVAILABLE ROOMS ARE
                        112
                        114
Enter the alloted room number::114
```

Figure 14

```
                        successfully registered


| Rg_N |Name of Customer| Rm_No |  Ch_In_Date  | ch_Out_Date  |Fd_Type|Advance|Room_Type|
| ---- |----------------| ----- | ---------- |  ----------- |-------|-------|---------|
 1221    Rishi           111     2025-02-02    2025-02-04     NONVEG   1200.0    DELUX

 1234    RAJ             105     2025-01-02    2025-01-04     NONVEG   1500.0    AC

 1256    Aditya          107     2025-01-01    2025-01-04     VEG      1200.0   NONAC

 1331    Harshita        110     2025-01-10    2025-01-13     VEG      2000.0   NONAC

 1899    Rohit           108     2024-12-12    2024-12-13     NONVEG   1200.0    NONAC

 2000    Rohan           102     2025-02-08    2025-02-10     VEG      1300.0   AC

 2001    Manjot          113     2025-01-04    2025-01-07     VEG      1200.0    DELUX

 2002    Chirag          109     2025-03-11    2025-03-12     VEG      1000.0   NONAC

 2003    Shiv            114     2025-03-05    2025-03-07     VEG      1200.0    DELUX

Do u want to continue BOOKING/BILL_GENERATE::0
Do u want to continue ADMIN/USER PANEL 1/0?::0
---------------------------------------------THANK YOU VISIT AGAIN------------------------------------
```

Figure 15

4 Database tables After the Implementation of Python Program

Figure 16: cust_book Table

Figure 17: customer Table

```
mysql> select * from rooms;
+---------+-----------+-----------+----------+
| room_no | room_type | room_rent | status   |
+---------+-----------+-----------+----------+
|     101 | AC        |   3200.00 | free     |
|     102 | AC        |   3200.00 | reserved |
|     103 | AC        |   3200.00 | free     |
|     104 | AC        |   3200.00 | free     |
|     105 | AC        |   3200.00 | free     |
|     106 | NONAC     |   2200.00 | free     |
|     107 | NONAC     |   2200.00 | reserved |
|     108 | NONAC     |   2200.00 | reserved |
|     109 | NONAC     |   2200.00 | reserved |
|     110 | NONAC     |   2200.00 | reserved |
|     111 | DELUX     |   3000.00 | reserved |
|     112 | DELUX     |   3000.00 | free     |
|     113 | DELUX     |   3000.00 | reserved |
|     114 | DELUX     |   3000.00 | reserved |
+---------+-----------+-----------+----------+
14 rows in set (0.00 sec)
```

Figure 18: rooms Table

```
mysql> select * from bill;
+--------+---------+--------+-----------+---------+------+---------+------+
| reg_no | no_days | ch_out | total_amt | room_no | paid | advance | menu |
+--------+---------+--------+-----------+---------+------+---------+------+
|   1234 |       4 | NULL   |      NULL |    NULL | NULL |    NULL | NULL |
+--------+---------+--------+-----------+---------+------+---------+------+
1 row in set (0.00 sec)
```

Figure 19: bill Table