1 Database

```
mysql> use hotel_mang_prj;
Database changed
mysql> show tables;
+-----+
| Tables_in_hotel_mang_prj |
+-----+
| bill |
| cust_book |
| customer |
| rooms |
+-----+
4 rows in set (0.00 sec)
```

Figure 1: Database Tables

2 Database Tables Before the Implementation of Python Program

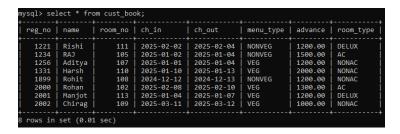


Figure 2: cust_book Table

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

Figure 3: customer Table

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

Figure 4: rooms Table

mysql> seled							
			total_amt				
1234	4	NULL	NULL	NULL	NULL	NULL	NULL
1 row in set	t (0.01 s	sec)	+				

Figure 5: bill Table

3 Python Implementation

Figure 6

```
| Rg_N |Name of Customer| Rm_No | Ch_In_Date | ch_Out_Date |Fd_Type|Advance|Room_Type|
 1221
                         111
                                2025-02-02
                                            2025-02-04
                                                           NONVEG
                                                                    1200.0
                                                                             DELUX
        RAJ
                        105
                                2025-01-02 2025-01-04
                                                           NONVEG
                                                                    1500.0
                                                                             AC
1234
                        107
1256
        Aditya
                               2025-01-01 2025-01-04
                                                          VEG
                                                                 1200.0
                                                                           NONAC
1331
                        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
        Manjot
                                2025-01-04 2025-01-07
                                                                 1200.0
                        109
                                2025-03-11 2025-03-12
                                                          VEG
                                                                 1000.0
                                                                           NONAC
2002
        Chirag
                            1. BOOKING DETAILS
                            2. CUSTOMER INFORMATION 3. ROOMS
                            4. BILLS
Enter your choice:: 2
```

Figure 7

```
| Rg_N |
                Name
                                  Address
                                                  Phone no
                                                                 Status
1221
          Rishi
                                                  567891234
                                 Chennai
                                                                reserved
1234
                                 CHENNAI
                                                  3456789012
                                                                 reserved
                                 Mumbai
                                                  7689032145
1256
         Aditya
                                                                 reserved
1331
         Harsh
                                 Pune
                                                  7658900908
                                                                 reserved
1899
          Rohit
                                 Mumbai
                                                  7890905643
                                                                 reserved
2000
                                                  7251494909
          Rohan
                                 Bangalore
                                                                 reserved
2001
          Manjot
                                 Bangalore
                                                  7410959809
                                                                 reserved
2002
                                 Kolkata
                                                  9456789010
          Chirag
                                                                 reserved
                              1. BOOKING DETAILS
                              2. CUSTOMER INFORMATION 3. ROOMS
                              4. BILLS
Enter your choice:: 3
```

Figure 8

```
|RoomNo| RoomType | RoomRent | Status |
  101
                       3200.0
            AC
                       3200.0
  102
                                  reserved
  103
                       3200.0
                                  free
           AC
AC
  104
105
                       3200.0
3200.0
                                  free
                                  free
  106
           NONAC
                       2200.0
  107
108
           NONAC
                       2200.0
2200.0
                                  reserved
           NONAC
                                  reserved
  109
           NONAC
                       2200.0
  110
111
           NONAC
                       2200.0
                                  reserved
           DELUX
                       3000.0
                                  reserved
           DELUX
DELUX
                       3000.0
  112
                                  reserved
FREE
  113
                       3000.0
                                 1. BOOKING DETAILS
                                 2. CUSTOMER INFORMATION 3. ROOMS
                                 4. BILLS
Enter your choice:: 4
|RegNo| NoOfDays | CheckInDate | TotalAmt |RoomNo| Paid | Advance |FoodType
1234
                      None
                               None
                                          None
                                                  None
                                                            None
                                                                       None
                                 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::
                        1. CUSTOMER INFORMATION
                        2. ROOMS
Enter your choice::1
| reg_no |
                                  address
                                              | phone number | room_status
    1221
              Rishi
                                                      567891234
    1234
              RAJ
                                    CHENNAT
                                                      3456789012
                                                                       reserved
    1256
              Aditya
                                    Mumbai
                                                      7689032145
                                                                       reserved
                                                      7658900908
7890905643
    1331
              Harsh
                                    Pune
                                                                       reserved
    1899
                                    Mumbai
              Rohit
                                                                       reserved
    2000
              Rohan
                                    Bangalore
                                                      7251494909
                                                                       reserved
                                    Bangalore
Kolkata
    2001
              Manjot
                                                      7410959809
                                                                       reserved
    2002
              Chirag
                                                      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

```
Address
| Rg_N |
                                                 Phone no
                                                                Status
 1221
                                                 567891234
         Rishi
                                 Chennai
                                                               reserved
         RAJ
                                 CHENNAI
1234
                                                 3456789012
                                                                reserved
1256
         Aditya
                                 Mumbai
                                                 7689032145
                                                                reserved
1331
         Harshita
                                 Ahmedabad
                                                 8445478900
                                                                reserved
1899
         Rohit
                                 Mumbai
                                                 7890905643
2000
         Rohan
                                 Bangalore
                                                 7251494909
                                                                reserved
2001
         Manjot
                                 Bangalore
                                                 7410959809
                                                                reserved
                                                 9456789010
2002
         Chirag
                                 Kolkata
                                                                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
                                         address
                                                             phone_no | status |
                                        Chennai
    1221
                                                           567891234
                                                                              reserved
               Rishi
                                                           3456789012
7689032145
8445478900
               RAJ
Aditya
Harshita
                                                                              reserved
reserved
reserved
    1234
                                        CHENNAI
                                       CHENNAI
Mumbai
Ahmedabad
Mumbai
Bangalore
Bangalore
Kolkata
    1256
1331
                                                           7890905643
7251494909
7410959809
    1899
2000
2001
               Rohit
Rohan
Manjot
                                                                              reserved
                                                                              reserved
    2002
               Chirag
                                                           9456789010
                                                                              reserved
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::
```

Figure 13

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

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

```
1. ADMIN
                                                                          2. USER
                                                  Enter your choice::
                                                    WELCOME TO USER PANEL-
                                                         1. BOOKING
2. BILL GENERATE
                                         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
                                      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
                          107
                                  2025-01-01 2025-01-04
1256
                                                               VEG
                                                                      1200.0
                                                                                NONAC
        Aditva
1331
                          110
                                  2025-01-10 2025-01-13
                                                                      2000.0
        Harshita
                                                               VEG
                                                                                NONAC
1899
                                   2024-12-12 2024-12-13
                                                                         1200.0
2000
                          102
                                  2025-02-08 2025-02-10
                                                                      1300.0
2001
                          113
                                   2025-01-04 2025-01-07
                                                                      1200.0
        Maniot
                                                               VEG
                                                                                DELUX
2002
                          109
                                  2025-03-11 2025-03-12
                                                               VEG
                                                                      1000.0
                                                                                NONAC
        Chirag
                          114
                                  2025-03-05 2025-03-07
                                                                      1200.0
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

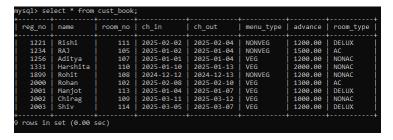


Figure 16: cust_book Table



Figure 17: customer Table

```
mysql> select * from rooms;
            room_type | room_rent
  room_no
                                      status
      101
                                      free
                            3200.00
      102
            AC
                            3200.00
                                      reserved
            AC
      103
                            3200.00
                                      free
            AC
      104
                            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
                            3000.00
      111
            DELUX
                                      reserved
                            3000.00
      112
            DELUX
                                      free
            DELUX
                            3000.00
      113
                                      reserved
            DELUX
                            3000.00
      114
                                      reserved
14 rows in set (0.00 sec)
```

Figure 18: rooms Table

mysql> select * from					
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 s	sec)	,			

Figure 19: bill Table