# **Computer Project:**

To Create A Hotel Management System Using MYSQL.

Developed By:

Name - Piyush Kumar Singh, Prateek

Class - XII N

### 1.) Creating Tables:

- 1. Guests
- 2. Rooms
- 3. Reservations
- 4. Payments
- 5. Services
- 6. Room Types
- 7. Staffs
- 8. Checkouts
- 9. Service Orders
- 10. Room Maintenance
- 2.) Adding Data For Tables
- 3.) Showing Finalized Tables

#### Certificate

This is to certify that <u>Piyush Kumar Singh</u> of Class <u>XII N</u> has completed the Computer Science project entitled "<u>To Create A Hotel Management System Using MYSQL</u>." under the guidance of his Computer Science teacher Mr. Suryakanta Malik

The Progress of the project has been continuously reported and has been acknowledged constantly.

(Computer Teacher)

Mr. Suryakanta Malik

#### Acknowledgement

I would like to owe the sense of gratitude to our computer science teacher Mr. Suryakanta Malik for his consistent guidance, support and encouragement without which this project would not have been able to exist in present shape.

I would also like to thank my parents for their blessings and my friends for their help in order to complete the project.

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MySQL 8.0 Command Line Cli X
                                                                                                                                                       o
Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 38
Server version: 8.0.34 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
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> create database HotelManagementSystem;
Query OK, 1 row affected (0.02 sec)
mysql> use HotelManagementSystem;
Database changed
mysql> CREATE TABLE guests (
           guest_id INT AUTO_INCREMENT PRIMARY KEY,
           first_name VARCHAR(50),
           last_name VARCHAR(50),
           email VARCHAR(100),
    ->
           phone VARCHAR(20),
           address VARCHAR(255)
    -> ):
Query OK, 0 rows affected (0.04 sec)
```

```
MySQL 8.0 Command Line Cli X
Enter password: *******
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 39
Server version: 8.0.34 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 hotelmanagementsystem;
Database changed
mysql> CREATE TABLE rooms (
           room_id INT AUTO_INCREMENT PRIMARY KEY,
           room_number VARCHAR(10),
           room_type VARCHAR(50),
           rate DECIMAL(10, 2)
    -> );
Query OK, 0 rows affected (0.03 sec)
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MySQL 8.0 Command Line Cli X
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Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 40
Server version: 8.0.34 MySQL Community Server - GPL
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use HotelManagementSystem
Database changed
mysql> CREATE TABLE reservations (
           reservation_id INT AUTO_INCREMENT PRIMARY KEY,
           guest_id INT,
           room_id INT,
           check_in_date DATE,
           check_out_date DATE,
           FOREIGN KEY (guest_id) REFERENCES guests(guest_id),
           FOREIGN KEY (room_id) REFERENCES rooms(room_id)
    -> );
Query OK, 0 rows affected (0.04 sec)
```

```
MySQL 8.0 Command Line Cli X
Enter password: *******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 41
Server version: 8.0.34 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 HotelManagementSystem;
Database changed
mysql> CREATE TABLE payments (
           payment_id INT AUTO_INCREMENT PRIMARY KEY,
           reservation_id INT.
    ->
           payment_date DATE,
           amount DECIMAL(10, 2),
           FOREIGN KEY (reservation_id) REFERENCES reservations(reservation_id)
    -> ):
Query OK, 0 rows affected (0.04 sec)
```

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MySQL 8.0 Command Line Cli X
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Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 43
Server version: 8.0.34 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 HotelManagementSystem;
Database changed
mysql> CREATE TABLE services (
           service_id INT AUTO_INCREMENT PRIMARY KEY,
           service_name VARCHAR(100),
           cost DECIMAL(10, 2)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

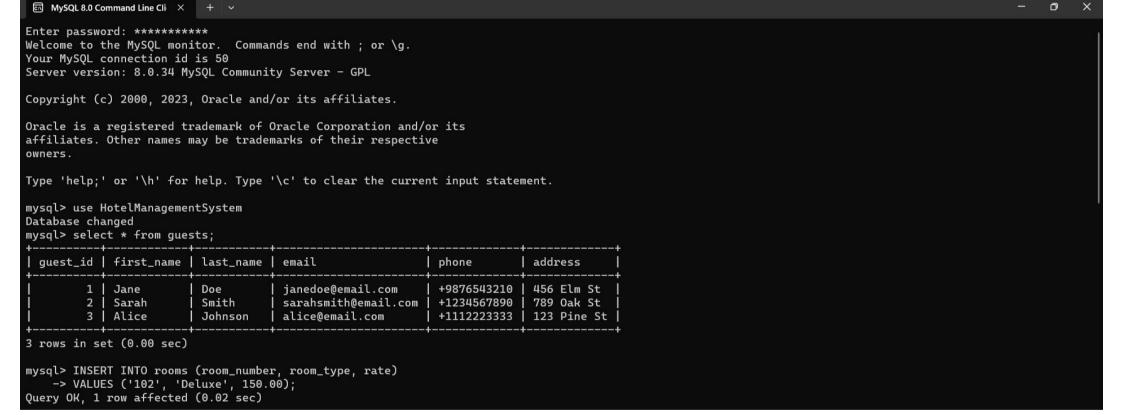
```
MySQL 8.0 Command Line Cli X
Enter password: ********
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 44
Server version: 8.0.34 MySQL Community Server - GPL
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use HotelManagementSystem;
Database changed
mysql> CREATE TABLE RoomTypes (
           room_type_id INT AUTO_INCREMENT PRIMARY KEY,
    ->
           type_name VARCHAR(50),
           description TEXT
    ->
    -> );
Query OK, 0 rows affected (0.03 sec)
```

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MySQL 8.0 Command Line Cli X
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Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 45
Server version: 8.0.34 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 HotelManagementSystem;
Database changed
mysql> CREATE TABLE staff (
           staff_id INT AUTO_INCREMENT PRIMARY KEY,
           first_name VARCHAR(50),
           last_name VARCHAR(50),
           position VARCHAR(50),
    ->
           salary DECIMAL(10, 2)
    -> ):
Query OK, 0 rows affected (0.03 sec)
```

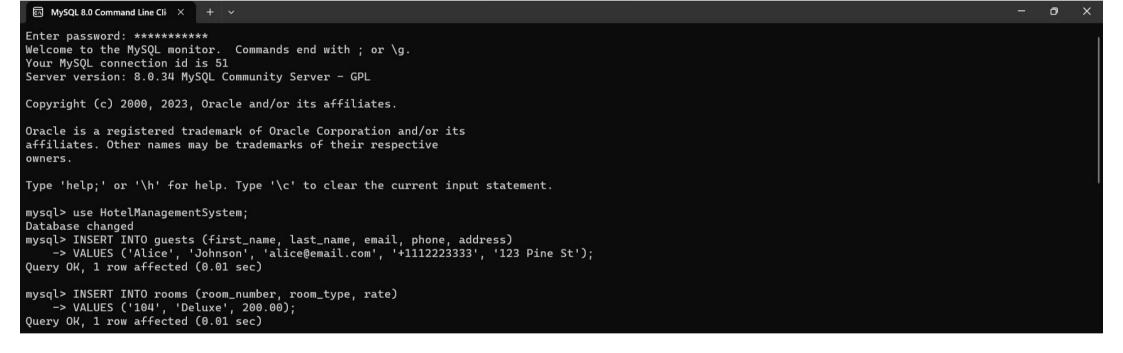
```
MySQL 8.0 Command Line Cli X
Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 47
Server version: 8.0.34 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
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affiliates. 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 HotelManagementSystem;
Database changed
mysql> CREATE TABLE room_service_orders (
           order_id INT AUTO_INCREMENT PRIMARY KEY,
    ->
           reservation_id INT,
           service_id INT,
           order_date DATE,
           FOREIGN KEY (reservation_id) REFERENCES reservations(reservation_id),
           FOREIGN KEY (service_id) REFERENCES services(service_id)
    -> );
Query OK, 0 rows affected (0.04 sec)
```

```
MySQL 8.0 Command Line Cli X
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Enter password: ********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 48
Server version: 8.0.34 MySQL Community Server - GPL
Copyright (c) 2000, 2023, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
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 HotelManagementSystem
Database changed
mysql> CREATE TABLE room_maintenance (
           maintenance_id INT AUTO_INCREMENT PRIMARY KEY,
           room_id INT,
           description TEXT,
           maintenance_date DATE,
           FOREIGN KEY (room_id) REFERENCES rooms(room_id)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

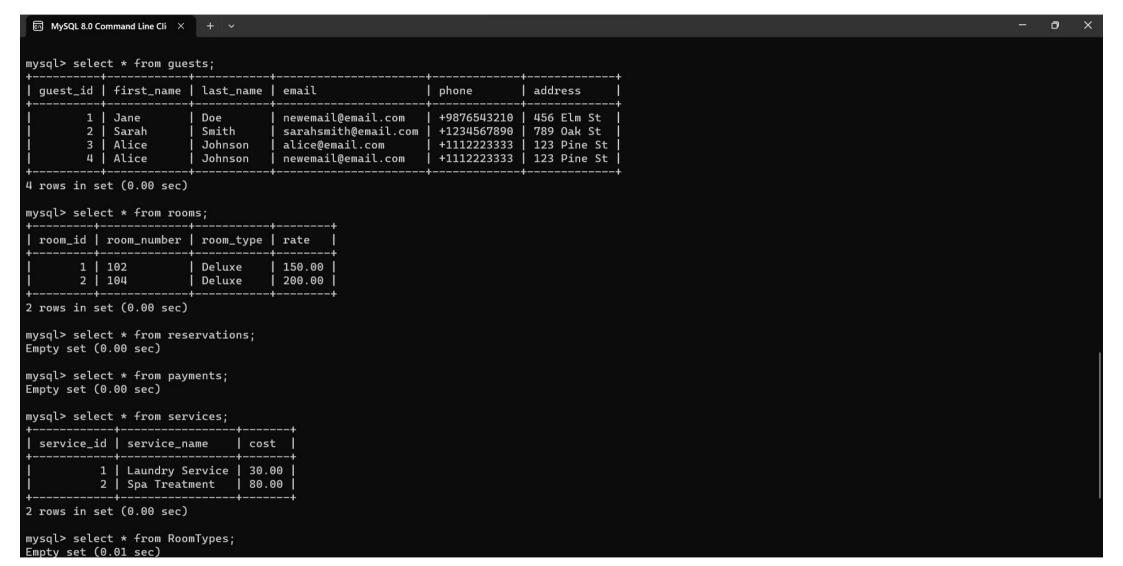


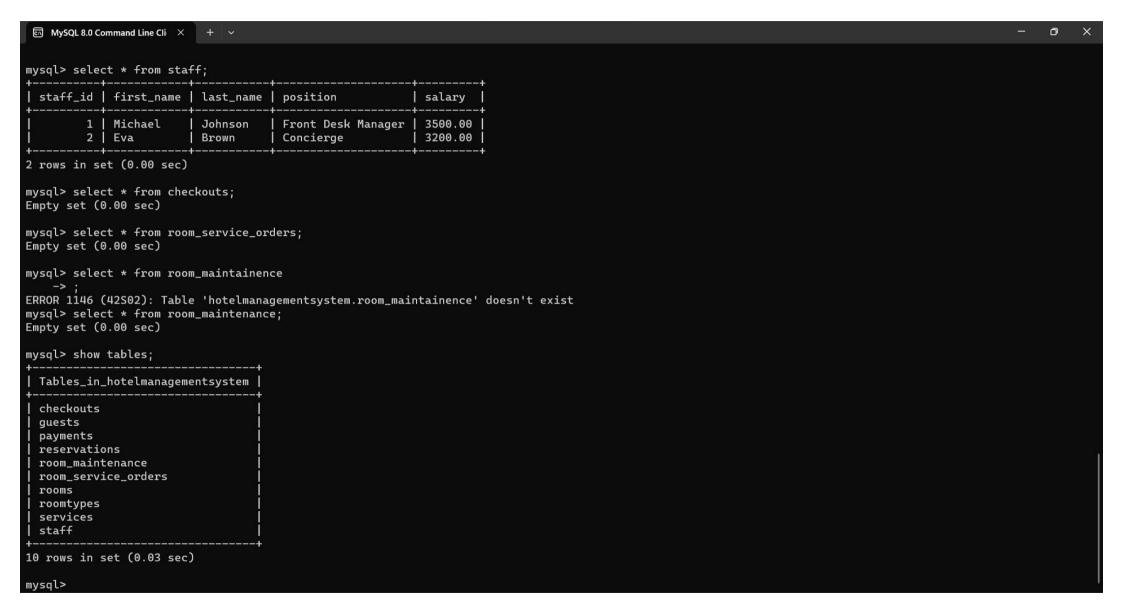
```
MySQL 8.0 Command Line Cli X
                                                                                                                                                        o
mysql> SELECT * FROM guests;
  guest_id | first_name | last_name |
                                      email
                                                             phone
                                                                           address
                                      janedoe@email.com
                                                             +9876543210
                                                                           456 Elm St
             Jane
                          Doe
             Sarah
                          Smith
                                      sarahsmith@email.com
                                                             +1234567890
                                                                           789 Oak St
                                      alice@email.com
         3 | Alice
                          Johnson
                                                             +1112223333
                                                                           123 Pine St
3 rows in set (0.00 sec)
mysql> SELECT * FROM rooms
    -> WHERE room_id NOT IN (
           SELECT room_id
           FROM reservations
    ->
           WHERE check_in_date <= '2023-10-05' AND check_out_date >= '2023-10-01'
    -> );
  room_id | room_number | room_type |
        1 | 102
                          Deluxe
                                      150.00
1 row in set (0.01 sec)
mysql> SELECT r.reservation_id, r.check_in_date, r.check_out_date, rm.room_number, rm.room_type
    -> FROM reservations r
    -> INNER JOIN rooms rm ON r.room_id = rm.room_id
    -> WHERE r.quest_id = 1;
Empty set (0.00 sec)
mysql> UPDATE guests
    -> SET email = 'newemail@email.com'
    -> WHERE guest_id = 1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MySQL 8.0 Command Line Cli X
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1 row in set (0.01 sec)
mysql> SELECT r.reservation_id, r.check_in_date, r.check_out_date, rm.room_number, rm.room_type
    -> FROM reservations r
    -> INNER JOIN rooms rm ON r.room_id = rm.room_id
    -> WHERE r.guest_id = 1;
Empty set (0.00 sec)
mysql> UPDATE guests
    -> SET email = 'newemail@email.com'
    -> WHERE guest_id = 1;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> UPDATE rooms
    -> SET rate = 160.00
    -> WHERE room_id = 2;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> UPDATE reservations
    -> SET check_in_date = '2023-10-02', check_out_date = '2023-10-06'
    -> WHERE reservation_id = 2;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> DELETE FROM reservations
    -> WHERE reservation_id = 2;
Query OK, 0 rows affected (0.01 sec)
mysql> DELETE FROM staff
    -> WHERE staff_id = 2;
Query OK, 0 rows affected (0.00 sec)
mysql> DELETE FROM room_maintenance
    -> WHERE maintenance_id = 2;
Query OK, 0 rows affected (0.00 sec)
```



```
MySQL 8.0 Command Line Cli X
                                                                                                                                                       o
ce_ibfk_1' FOREIGN KEY ('room_id') REFERENCES 'rooms' ('room_id'))
mysql> UPDATE quests
    -> SET email = 'newemail@email.com'
    -> WHERE guest_id = 4;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> UPDATE rooms
    -> SET rate = 220.00
    -> WHERE room_id = 4;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> UPDATE reservations
    -> SET check_out_date = '2023-12-11'
    -> WHERE reservation_id = 4;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0
mysql> DELETE FROM reservations
    -> WHERE reservation_id = 4;
Query OK, 0 rows affected (0.00 sec)
mysql> DELETE FROM payments
    -> WHERE payment_id = 4;
Query OK, 0 rows affected (0.00 sec)
mysql> DELETE FROM services
   -> WHERE service_id = 4;
Query OK, 0 rows affected (0.00 sec)
```





## **Bibliography**

For successfully completing my project file.

I have taken help from following Website links:-

- www.google.com
- www.wikipedia.com
- www.youtube.com