

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 Piyush Kumar Singh of Class XII N has completed the Computer Science project entitled “To Create A Hotel Management System Using MYSQL.” 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.

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

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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)

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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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)



MySQL 8.0 Command Line Cli



Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 40

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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)

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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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)

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 43

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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 services (

-> service_id INT AUTO_INCREMENT PRIMARY KEY,

-> service_name VARCHAR(100),

-> cost DECIMAL(10, 2)

->);

Query OK, 0 rows affected (0.02 sec)

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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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)

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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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)

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 47

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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)

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 48

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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)

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 50

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

mysql> use HotelManagementSystem

Database changed

mysql> select * from guests;

guest_id	first_name	last_name	email	phone	address
1	Jane	Doe	janedoe@email.com	+9876543210	456 Elm St
2	Sarah	Smith	sarahsmith@email.com	+1234567890	789 Oak St
3	Alice	Johnson	alice@email.com	+1112223333	123 Pine St

3 rows in set (0.00 sec)

mysql> INSERT INTO rooms (room_number, room_type, rate)

-> VALUES ('102', 'Deluxe', 150.00);

Query OK, 1 row affected (0.02 sec)

```
mysql> SELECT * FROM guests;
```

guest_id	first_name	last_name	email	phone	address
1	Jane	Doe	janedoe@email.com	+9876543210	456 Elm St
2	Sarah	Smith	sarahsmith@email.com	+1234567890	789 Oak St
3	Alice	Johnson	alice@email.com	+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	rate
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.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
```

```
+-----+-----+-----+-----+
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)
```


Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 51

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

mysql> use HotelManagementSystem;

Database changed

mysql> INSERT INTO guests (first_name, last_name, email, phone, address)

-> VALUES ('Alice', 'Johnson', 'alice@email.com', '+1112223333', '123 Pine St');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO rooms (room_number, room_type, rate)

-> VALUES ('104', 'Deluxe', 200.00);

Query OK, 1 row affected (0.01 sec)

MySQL 8.0 Command Line Cli × + ▾
ce_ibfk_1` FOREIGN KEY (`room_id`) REFERENCES `rooms` (`room_id`))

```
mysql> UPDATE guests  
-> 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)
```

```
mysql> select * from guests;
```

guest_id	first_name	last_name	email	phone	address
1	Jane	Doe	newemail@email.com	+9876543210	456 Elm St
2	Sarah	Smith	sarahsmith@email.com	+1234567890	789 Oak St
3	Alice	Johnson	alice@email.com	+1112223333	123 Pine St
4	Alice	Johnson	newemail@email.com	+1112223333	123 Pine St

```
4 rows in set (0.00 sec)
```

```
mysql> select * from rooms;
```

room_id	room_number	room_type	rate
1	102	Deluxe	150.00
2	104	Deluxe	200.00

```
2 rows in set (0.00 sec)
```

```
mysql> select * from reservations;
```

```
Empty set (0.00 sec)
```

```
mysql> select * from payments;
```

```
Empty set (0.00 sec)
```

```
mysql> select * from services;
```

service_id	service_name	cost
1	Laundry Service	30.00
2	Spa Treatment	80.00

```
2 rows in set (0.00 sec)
```

```
mysql> select * from RoomTypes;
```

```
Empty set (0.01 sec)
```

```
mysql> select * from staff;
```

staff_id	first_name	last_name	position	salary
1	Michael	Johnson	Front Desk Manager	3500.00
2	Eva	Brown	Concierge	3200.00

```
2 rows in set (0.00 sec)
```

```
mysql> select * from checkouts;
```

```
Empty set (0.00 sec)
```

```
mysql> select * from room_service_orders;
```

```
Empty set (0.00 sec)
```

```
mysql> select * from room_maintenance
```

```
-> ;
```

```
ERROR 1146 (42S02): Table 'hotelmanagementsystem.room_maintenance' doesn't exist
```

```
mysql> select * from room_maintenance;
```

```
Empty set (0.00 sec)
```

```
mysql> show tables;
```

Tables_in_hotelmanagementsystem
checkouts
guests
payments
reservations
room_maintenance
room_service_orders
rooms
roomtypes
services
staff

```
10 rows in set (0.03 sec)
```

```
mysql>
```

Bibliography

For successfully completing my project file.

I have taken help from following Website links :-

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