

Hotel Management System Case Study

An Overview of Database Schema, Data and Queries

Objective

- To Manage and analyze hotel operations using SQL.

Database Schema Overview

- Tables Created:
 - Guests
 - Rooms
 - Bookings
 - Services
 - Booking Services
 - Payments
- Relationships: Foreign Key linking related tables.

- **Guests Table**

- Purpose: Stores Guest Information.

- ❖ Columns:







1. GuestID(Primary Key)
2. Firstname
3. Lastname
4. Email
5. Phone

```
• create database h_m_s;  
• use h_m_s;  
• Create Table Guests(  
    GuestID int primary key,  
    FirstName varchar(50),  
    LastName varchar(50),  
    Email varchar(100),  
    Phone varchar(20));
```

```
• insert into Guests(GuestID, FirstName, LastName, Email, Phone)  
values(1, 'Daniel', 'Radcliffe', 'daniel.r@example.com', '555-1234'),  
(2, 'Emma', 'Watson', 'emma.w@example.com', '222-5678'),  
(3, 'Bonnie', 'Wright', 'bonnie.w@example.com', '555-8765'),  
(4, 'Rupert', 'Grint', 'rupert.g@example.com', '555-4321'),  
(5, 'Evanna', 'Lynch', 'evanna.l@example.com', '555-3456'),  
(6, 'Tom', 'Felton', 'tom.f@example.com', '444-6543'),  
(7, 'Maggie', 'Smith', 'maggie.s@example.com', '555-9876'),  
(8, 'Matthew', 'Lewis', 'matthew.l@example.com', '555-5432'),  
(9, 'Katie', 'Leung', 'katie.l@example.com', '555-2345'),  
(10, 'Robert', 'Pattinson', 'robert.p@example.com', '555-6789');
```

Guest Table:

```
select * from Guests;
```


Result Grid					
Filter Rows: <input type="text"/>					
Edit:   					
Export/Import:  					
Wrap Cell Content: 					
	GuestID	FirstName	LastName	Email	Phone
▶	1	Daniel	Raddiffe	daniel.r@example.com	555-1234
	2	Emma	Watson	emma.w@example.com	222-5678
	3	Bonnie	Wright	bonnie.w@example.com	555-8765
	4	Rupert	Grint	rupert.g@example.com	555-4321
	5	Evanna	Lynch	evanna.l@example.com	555-3456
	6	Tom	Felton	tom.f@example.com	444-6543
	7	Maggie	Smith	maggie.s@example.com	555-9876
	8	Matthew	Lewis	matthew.l@example.com	555-5432
	9	Katie	Leung	katie.l@example.com	555-2345
	10	Robert	Pattinson	robert.p@example.com	555-6789
✱	NULL	NULL	NULL	NULL	NULL

- **Rooms Table**

- Purpose: Stores Room Details

- ❖ Columns:









1. RoomID(Primary Key)
2. RoomNumber
3. RoomType
4. PricePerNight

-  **Create Table** Rooms(
 RoomID int primary key,
 RoomNumber varchar(10),
 RoomType varchar(50),
 PricePerNight decimal(10, 2));

- **insert into** Rooms(RoomID, RoomNumber, RoomType, PricePerNight)
values(1, '101', 'Single', 100),
(2, '102', 'Double', 150),
(3, '201', 'Suite', 250),
(4, '202', 'Suite', 275),
(5, '301', 'Single', 100),
(6, '302', 'Double', 160),
(7, '401', 'Suite', 300),
(8, '402', 'Single', 110),
(9, '501', 'Double', 140),
(10, '502', 'Suite', 320);

Rooms Table:

• `Select * from Rooms;`

Result Grid		 Filter Rows: <input type="text"/>	Edit: 			Export/Import: 		Wrap Cell Content: 
	RoomID	RoomNumber	RoomType	PricePerNight				
▶	1	101	Single	100.00				
	2	102	Double	150.00				
	3	201	Suite	250.00				
	4	202	Suite	275.00				
	5	301	Single	100.00				
	6	302	Double	160.00				
	7	401	Suite	300.00				
	8	402	Single	110.00				
	9	501	Double	140.00				
	10	502	Suite	320.00				
*	NULL	NULL	NULL	NULL				

- **Bookings Table:**

- Purpose: Records bookings made by guests.

- ❖ Columns

1. BookingID(Primary Key)
2. GuestID(Foreign Key)
3. RoomID(Foreign Key)
4. CheckInDate
5. CheckOutDate

- **Create Table** Bookings(
 BookingID int primary key,
 GuestID int,
 RoomID int,
 CheckInDate date,
 CheckOutDate date,
 Foreign Key (GuestID) References Guests(GuestID),
 Foreign Key (RoomID) References Rooms(RoomID));

- **insert into** Bookings(BookingID, GuestID, RoomID, CheckInDate, CheckOutDate)
values(1, 1, 1, '2024-01-05', '2024-01-10'),
(2, 2, 2, '2024-02-01', '2024-02-05'),
(3, 3, 3, '2024-03-10', '2024-03-15'),
(4, 4, 4, '2024-04-01', '2024-04-10'),
(5, 5, 5, '2024-05-20', '2024-05-25'),
(6, 6, 6, '2024-06-15', '2024-06-20'),
(7, 7, 7, '2024-07-10', '2024-07-15'),
(8, 8, 8, '2024-08-01', '2024-08-07'),
(9, 9, 9, '2024-09-05', '2024-09-10'),
(10, 10, 10, '2024-10-10', '2024-10-15');

Bookings Table:

```
• select * from Bookings;
```


Result Grid			Filter Rows:	<input type="text"/>	Edit:				Export/Import:			Wrap Cell Content:	
	BookingID	GuestID	RoomID	CheckInDate	CheckOutDate								
▶	1	1	1	2024-01-05	2024-01-10								
	2	2	2	2024-02-01	2024-02-05								
	3	3	3	2024-03-10	2024-03-15								
	4	4	4	2024-04-01	2024-04-10								
	5	5	5	2024-05-20	2024-05-25								
	6	6	6	2024-06-15	2024-06-20								
	7	7	7	2024-07-10	2024-07-15								
	8	8	8	2024-08-01	2024-08-07								
	9	9	9	2024-09-05	2024-09-10								
	10	10	10	2024-10-10	2024-10-15								
✱	NULL	NULL	NULL	NULL	NULL								

- **Services Table:**

- Purpose: Tracks Additional services used by guests during their stay.

- ❖ Columns:

1. ServiceID(Primary Key)
2. Service Name
3. Price

-  **Create Table** Services(
 ServiceID int primary Key,
 ServiceName varchar(100),
 Price decimal(10, 2));

- **insert into** Services(ServiceID, ServiceName, Price)
values(1, 'Room Service', 20),
 (2, 'Spa', 100),
 (3, 'Airport Pickup', 50),
 (4, 'Laundry', 30),
 (5, 'Breakfast', 15),
 (6, 'Dinner', 40),
 (7, 'Guided Tour', 75),
 (8, 'Gym Access', 25),
 (9, 'Massage', 60),
 (10, 'Mini-Bar', 35);

Services Table:

- `select * from Services;`

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
ServiceID	ServiceName	Price		
1	Room Service	20.00		
2	Spa	100.00		
3	Airport Pickup	50.00		
4	Laundry	30.00		
5	Breakfast	15.00		
6	Dinner	40.00		
7	Guided Tour	75.00		
8	Gym Access	25.00		
9	Massage	60.00		
10	Mini-Bar	35.00		
NULL	NULL	NULL		

- **Booking Services Table:**

- Purpose: Tracks additional services used by guests during their stay.









- ❖ Columns:

1. BookingServiceID(Primary Key)
2. BookingID(Foreign Key)
3. ServiceID(Foreign Key)
4. Quantity

```
• Create Table BookingServices(  
    BookingServiceID int primary key,  
    BookingID int,  
    ServiceID int,  
    Quantity int,  
    Foreign Key (BookingID) References Bookings(BookingID),  
    Foreign Key (ServiceID) References Services(ServiceID));  
  
• insert into BookingServices(BookingServiceID, BookingID, ServiceID, Quantity)  
values(1, 1, 1, 2),  
(2, 1, 5, 1),  
(3, 2, 3, 1),  
(4, 3, 2, 1),  
(5, 4, 6, 1),  
(6, 5, 4, 2),  
(7, 6, 8, 1),  
(8, 7, 7, 1),  
(9, 8, 9, 1),  
(10, 9, 10, 2);
```


Booking Services Table:

```
select * from BookingServices;
```

Result Grid   Filter Rows: <input type="text"/> Edit:    Export/Import:   Wrap Cell Content: 				
	BookingServiceID	BookingID	ServiceID	Quantity
▶	1	1	1	2
	2	1	5	1
	3	2	3	1
	4	3	2	1
	5	4	6	1
	6	5	4	2
	7	6	8	1
	8	7	7	1
	9	8	9	1
	10	9	10	2
✱	NULL	NULL	NULL	NULL

- **Payments Table:**

- Purpose: Records payment details for bookings.

- ❖ Columns:

1. PaymentID(Primary Key)
2. BookingID(Foreign Key)
3. PaymentDate
4. Amount

- **Create Table** Payments(
 PaymentID **int primary Key**,
 BookingID **int**,
 PaymentDate **date**,
 Amount **decimal(10, 2)**,
 Foreign Key(BookingID) **References** Bookings(BookingID));

- **insert into** Payments(PaymentID, BookingID, PaymentDate, Amount)
values(1, 1, '2024-01-10', 600),
 (2, 2, '2024-02-05', 650),
 (3, 3, '2024-03-15', 550),
 (4, 4, '2024-04-10', 900),
 (5, 5, '2024-05-25', 500),
 (6, 6, '2024-06-20', 600),
 (7, 7, '2024-07-15', 750),
 (8, 8, '2024-08-07', 690),
 (9, 9, '2024-09-10', 600),
 (10, 10, '2024-10-15', 800);

Questions:

1) Select Records:

- Write a query to select all bookings from the Bookings table where the CheckOutDate is after January 1, 2024.

```
select * from Bookings  
where CheckOutDate > '2024-01-01';
```

Result Grid Filter Rows: <input type="text"/> Edit: Export/Import: Wrap Cell Content:					
	BookingID	GuestID	RoomID	CheckInDate	CheckOutDate
▶	1	1	1	2024-01-05	2024-01-10
	2	2	2	2024-02-01	2024-02-05
	3	3	3	2024-03-10	2024-03-15
	4	4	4	2024-04-01	2024-04-10
	5	5	5	2024-05-20	2024-05-25
	6	6	6	2024-06-15	2024-06-20
	7	7	7	2024-07-10	2024-07-15
	8	8	8	2024-08-01	2024-08-07
	9	9	9	2024-09-05	2024-09-10
	10	10	10	2024-10-10	2024-10-15
*	NULL	NULL	NULL	NULL	NULL

2. Where Clause (AND/OR):

- Write a query to select all guests who have a phone number starting with '555' and an email containing 'example.com'.

```
• select * from Guests  
  where phone like '555%' and email like '%example.com%';
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
GuestID	FirstName	LastName	Email	Phone
1	Daniel	Raddiffe	daniel.r@example.com	555-1234
3	Bonnie	Wright	bonnie.w@example.com	555-8765
4	Rupert	Grint	rupert.g@example.com	555-4321
5	Evanna	Lynch	evanna.l@example.com	555-3456
7	Maggie	Smith	maggie.s@example.com	555-9876
8	Matthew	Lewis	matthew.l@example.com	555-5432
9	Katie	Leung	katie.l@example.com	555-2345
10	Robert	Pattinson	robert.p@example.com	555-6789
*	NULL	NULL	NULL	NULL

3.LIKE Operator:

- Write a query to select all rooms where the RoomType contains 'Suite'.

```
• select * from Rooms  
  where RoomType like '%Suite%';
```

Result Grid		Filter Rows: <input type="text"/>	Edit:			Export/Import:		Wrap Cell Content:
	RoomID	RoomNumber	RoomType	PricePerNight				
▶	3	201	Suite	250.00				
	4	202	Suite	275.00				
	7	401	Suite	300.00				
	10	502	Suite	320.00				
*	NULL	NULL	NULL	NULL				

4.CASE Statement:

- Write a query to select RoomNumber and a new column DiscountedPrice from the Rooms table. If PricePerNight is greater than \$200, set DiscountedPrice to PricePerNight * 0.8, otherwise PricePerNight.

```
select RoomNumber,  
case  
when PricePerNight > 200 then PricePerNight*0.8  
else PricePerNight  
end as DiscountedPrice  
from Rooms;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	RoomNumber	DiscountedPrice			
▶	101	100.00			
	102	150.00			
	201	200.000			
	202	220.000			
	301	100.00			
	302	160.00			
	401	240.000			
	402	110.00			
	501	140.00			
	502	256.000			

5.Subquery:

- Write a query to find all guests who have made bookings with a total amount exceeding \$500. Use a subquery to find these GuestIDs.





```
select * from Guests
where GuestID in (Select GuestID from bookings
                  join Payments on Bookings.BookingID=Payments.BookingID
                  group by GuestID
                  Having sum(Amount)>500);
```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
GuestID	FirstName	LastName	Email	Phone
1	Daniel	Raddcliffe	daniel.r@example.com	555-1234
2	Emma	Watson	emma.w@example.com	222-5678
3	Bonnie	Wright	bonnie.w@example.com	555-8765
4	Rupert	Grint	rupert.g@example.com	555-4321
6	Tom	Felton	tom.f@example.com	444-6543
7	Maggie	Smith	maggie.s@example.com	555-9876
8	Matthew	Lewis	matthew.l@example.com	555-5432
9	Katie	Leung	katie.l@example.com	555-2345
10	Robert	Pattinson	robert.p@example.com	555-6789
* NULL	NULL	NULL	NULL	NULL

6.Group By:

- Write a query to get the total number of rooms booked by each RoomType. Group the results by RoomType.

```
1 select RoomType, count(*) as TotalRoomsBooked
2 from Rooms
3 join Bookings on Rooms.RoomID = Bookings.RoomId
4 group by RoomType;
```

Result Grid		 Filter Rows: <input type="text"/>	Export: 	Wrap Cell Content: 
	RoomType	TotalRoomsBooked		
▶	Single	3		
	Double	3		
	Suite	4		

7. Having Clause:

- Write a query to get the total amount paid for each booking, but only include bookings where the total amount is greater than \$100. Use the HAVING clause.

- ```
select BookingID, sum(Amount) TotalAmount
from payments
group by BookingID
having sum(Amount) > 100;
```





| Result Grid |           |             | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-----------|-------------|--------------|---------|--------------------|
|             | BookingID | TotalAmount |              |         |                    |
| ▶           | 1         | 600.00      |              |         |                    |
|             | 2         | 650.00      |              |         |                    |
|             | 3         | 550.00      |              |         |                    |
|             | 4         | 900.00      |              |         |                    |
|             | 5         | 500.00      |              |         |                    |
|             | 6         | 600.00      |              |         |                    |
|             | 7         | 750.00      |              |         |                    |
|             | 8         | 690.00      |              |         |                    |
|             | 9         | 600.00      |              |         |                    |
|             | 10        | 800.00      |              |         |                    |



## 8.Limit:

- Write a query to select the top 5 guests who have stayed the most number of nights.

```
• select g.GuestID, sum(datediff(b.CheckOutDate, b.CheckInDate)) NumberOfNights
 from Guests g
 join Bookings b on g.GuestID = b.GuestID
 group by g.GuestID
 order by NumberOfNights desc
 limit 5;
```

|             |                                                                                   |                                                                                                                     |                                                                                             |                                                                                                        |             |
|-------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------|
| Result Grid |  |  Filter Rows: <input type="text"/> | Export:  | Wrap Cell Content:  | Fetch rows: |
|             | GuestID                                                                           | NumberOfNights                                                                                                      |                                                                                             |                                                                                                        |             |
| ►           | 4                                                                                 | 9                                                                                                                   |                                                                                             |                                                                                                        |             |
|             | 8                                                                                 | 6                                                                                                                   |                                                                                             |                                                                                                        |             |
|             | 1                                                                                 | 5                                                                                                                   |                                                                                             |                                                                                                        |             |
|             | 3                                                                                 | 5                                                                                                                   |                                                                                             |                                                                                                        |             |
|             | 5                                                                                 | 5                                                                                                                   |                                                                                             |                                                                                                        |             |

## 9.Inner Join:

- Write a query to join Bookings with Guests to get a list of all bookings with FirstName, LastName, CheckInDate, and CheckOutDate.

```
• select Firstname,Lastname,CheckInDate,CheckOutDate
from Guests g join Bookings b
on (g.GuestID = b.GuestID);
```





| Result Grid | Filter Rows: | Export:     | Wrap Cell Content: |
|-------------|--------------|-------------|--------------------|
| Firstname   | Lastname     | CheckInDate | CheckOutDate       |
| Daniel      | Raddcliffe   | 2024-01-05  | 2024-01-10         |
| Emma        | Watson       | 2024-02-01  | 2024-02-05         |
| Bonnie      | Wright       | 2024-03-10  | 2024-03-15         |
| Rupert      | Grint        | 2024-04-01  | 2024-04-10         |
| Evanna      | Lynch        | 2024-05-20  | 2024-05-25         |
| Tom         | Felton       | 2024-06-15  | 2024-06-20         |
| Maggie      | Smith        | 2024-07-10  | 2024-07-15         |
| Matthew     | Lewis        | 2024-08-01  | 2024-08-07         |
| Katie       | Leung        | 2024-09-05  | 2024-09-10         |
| Robert      | Pattinson    | 2024-10-10  | 2024-10-15         |



## 10.Outer Join:

- Write a query to get a list of all rooms and any associated bookings. Include rooms that might not be booked.

```
• select r.RoomID,r.RoomNumber,r.RoomType,r.PricePerNight,b.BookingID,b.GuestID,b.CheckInDate,b.CheckOutDate
from Rooms r left join Bookings b
on r.RoomID=b.RoomID
order by r.RoomID,b.BookingID;
```

| Result Grid     Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:  |        |            |          |               |           |         |             |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|----------|---------------|-----------|---------|-------------|--------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                            | RoomID | RoomNumber | RoomType | PricePerNight | BookingID | GuestID | CheckInDate | CheckOutDate |
| ▶                                                                                                                                                                                                                                                                                                                                                                                                                          | 1      | 101        | Single   | 100.00        | 1         | 1       | 2024-01-05  | 2024-01-10   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 2      | 102        | Double   | 150.00        | 2         | 2       | 2024-02-01  | 2024-02-05   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 3      | 201        | Suite    | 250.00        | 3         | 3       | 2024-03-10  | 2024-03-15   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 4      | 202        | Suite    | 275.00        | 4         | 4       | 2024-04-01  | 2024-04-10   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 5      | 301        | Single   | 100.00        | 5         | 5       | 2024-05-20  | 2024-05-25   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 6      | 302        | Double   | 160.00        | 6         | 6       | 2024-06-15  | 2024-06-20   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 7      | 401        | Suite    | 300.00        | 7         | 7       | 2024-07-10  | 2024-07-15   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 8      | 402        | Single   | 110.00        | 8         | 8       | 2024-08-01  | 2024-08-07   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 9      | 501        | Double   | 140.00        | 9         | 9       | 2024-09-05  | 2024-09-10   |
|                                                                                                                                                                                                                                                                                                                                                                                                                            | 10     | 502        | Suite    | 320.00        | 10        | 10      | 2024-10-10  | 2024-10-15   |

## 11.Join with Aggregation:

- Write a query to get the total revenue generated by each RoomType. Use an INNER JOIN between Rooms and Bookings, and group by RoomType.

```
select r.RoomType, SUM(r.PricePerNight * DATEDIFF(b.CheckOutDate, b.CheckInDate)) AS TotalRevenue
from Rooms r
inner join Bookings b on r.RoomID = b.RoomID
group by r.RoomType;
```

|             |                                                                                   |                                                                                   |                                   |                                                                                             |                                                                                                        |
|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Result Grid |  |  | Filter Rows: <input type="text"/> | Export:  | Wrap Cell Content:  |
|             | RoomType                                                                          | TotalRevenue                                                                      |                                   |                                                                                             |                                                                                                        |
| ▶           | Single                                                                            | 1660.00                                                                           |                                   |                                                                                             |                                                                                                        |
|             | Double                                                                            | 2100.00                                                                           |                                   |                                                                                             |                                                                                                        |
|             | Suite                                                                             | 6825.00                                                                           |                                   |                                                                                             |                                                                                                        |

## 12.Subquery with Join:

- Write a query to find all bookings where the total services cost is higher than the average service cost. Use a subquery in the WHERE clause.

```
• select b.BookingID,b.GuestID
 from Bookings b
 join BookingServices bs on b.BookingID=bs.BookingID
 join Services s on bs.ServiceID=s.ServiceID
 where (select sum(bs.Quantity*s.Price))>(select avg(price) from services);
```



|             |           |         |                                   |         |                    |
|-------------|-----------|---------|-----------------------------------|---------|--------------------|
| Result Grid |           |         | Filter Rows: <input type="text"/> | Export: | Wrap Cell Content: |
|             | BookingID | GuestID |                                   |         |                    |
| ▶           | 2         | 2       |                                   |         |                    |
|             | 3         | 3       |                                   |         |                    |
|             | 5         | 5       |                                   |         |                    |
|             | 7         | 7       |                                   |         |                    |
|             | 8         | 8       |                                   |         |                    |
|             | 9         | 9       |                                   |         |                    |



### 13.Advanced Join:

- Write a query to list RoomNumber, GuestName, and ServiceName for all rooms that have been booked and where additional services were provided. Use INNER JOIN and LEFT JOIN as necessary to get all required details.

```
• select r.RoomNumber,CONCAT(g.Firstname,' ',g.Lastname) GuestName,s.ServiceName
from Rooms r
join Bookings b on r.RoomID = b.RoomID
join Guests g on b.GuestID = g.GuestID
join BookingServices bs on b.BookingID = bs.BookingID
left join services s on bs.ServiceID = s.ServiceID
where bs.Quantity>0;
```

| Result Grid                                                                                                                                                                                        |            |                  |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|----------------|
| Filter Rows: <input type="text"/>                                                                                                                                                                  |            |                  |                |
| Export:  Wrap Cell Content:  |            |                  |                |
|                                                                                                                                                                                                    | RoomNumber | GuestName        | ServiceName    |
| ▶                                                                                                                                                                                                  | 101        | Daniel Radcliffe | Room Service   |
|                                                                                                                                                                                                    | 101        | Daniel Radcliffe | Breakfast      |
|                                                                                                                                                                                                    | 102        | Emma Watson      | Airport Pickup |
|                                                                                                                                                                                                    | 201        | Bonnie Wright    | Spa            |
|                                                                                                                                                                                                    | 202        | Rupert Grint     | Dinner         |
|                                                                                                                                                                                                    | 301        | Evanna Lynch     | Laundry        |
|                                                                                                                                                                                                    | 302        | Tom Felton       | Gym Access     |
|                                                                                                                                                                                                    | 401        | Maggie Smith     | Guided Tour    |
|                                                                                                                                                                                                    | 402        | Matthew Lewis    | Massage        |
|                                                                                                                                                                                                    | 501        | Katie Leung      | Mini-Bar       |

# Conclusion

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- **Summary:**Effective use of SQL for managing hotel data.
- **Key Insights:**How the queries help in understand bookings,revenue,guest behavior and service usage.



Thank You