

Group 42

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CSE 202

FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM

SQL Queries for Project

Project Topic: Hotel Record Management System

1. **SELECT SUM(roomTotal) FROM hotels;**

Get the total number of rooms present in all hotels

```
mysql> select SUM(roomTotal) from hotels;
+-----+
| SUM(roomTotal) |
+-----+
|              30 |
+-----+
1 row in set (0.00 sec)
```

2. **SELECT roomID FROM Rooms WHERE pricePerNight>10000 AND hotelName="Elder Aegis" AND bedtotal>2;**

Get the room ID from Elder Aegis hotel which has more than 2 beds and the price per night is greater than 10000.

```
mysql> SELECT roomID FROM Rooms WHERE pricePerNight>10000 AND hotelName="Elder Aegis" AND bedtotal>2;
+-----+
| roomID |
+-----+
| EA11   |
| EA12   |
+-----+
2 rows in set (0.00 sec)
```

**3. SELECT name, paymentID, Guests.reservationID FROM Guests, Payments
WHERE Guests.reservationID=Payments.reservationID;**

Get the name, paymentID, and reservationID of all guests.

```
mysql> select name, paymentID, guests.reservationID from guests, payments where guests.reservationID=payments.reservationID;
```

name	paymentID	reservationID
Nayan Bhatia	2	1
Shashank Bhatia	2	1
Lalita Bhatia	2	1
Daanish Bhatia	2	1
Isha Bansal	3	2
Isha Bansal	4	2
Urmila Samra	3	2
Urmila Samra	4	2
Teena Dhar	5	3
Hassan Bahl	5	3
Namita Malhotra	5	3

4. SELECT nationality FROM guests GROUP BY nationality;

Get the nationalities of all the guests.

```
mysql> select nationality from guests group by nationality;
```

nationality
India
Bhutan
Nepal
Sri Lanka
Britain

5 rows in set (0.00 sec)

**5. SELECT * FROM Payments, Bookings WHERE Payments.reservationID =
Bookings.reservationID AND amount = (SELECT MAX(amount) FROM Payments);**

Alternate way:

**SELECT * FROM Payments, Bookings WHERE Payments.reservationID =
Bookings.reservationID ORDER BY amount DESC LIMIT 1;**

Return details of those bookings with max payment amount.

```
mysql> SELECT * FROM Payments,Bookings WHERE Payments.reservationID=Bookings.reservationID AND amount=(SELECT MAX(amount) FROM Payments);
```

paymentID	reservationID	amount	method	paymentDate	reservationID	phone	email	bookingTime	bookingDate	guestsTotal
1	5	30000	mastercard	2019-03-11	5	5947832650	tejaswani@gmail.com	00:11:48	2019-03-11	6

1 row in set (0.00 sec)

**6. SELECT DISTINCT paymentID, amount, method, paymentDate, bookingDate
FROM Payments INNER JOIN Bookings on payments.reservationID =
Bookings.reservationID;**

Get payment and booking details for each payment.

```
mysql> SELECT DISTINCT paymentID, amount, method, paymentDate, bookingDate FROM Payments INNER JOIN Bookings on payments.reservationID = Bookings.reservationID;
```

paymentID	amount	method	paymentDate	bookingDate
2	24000	visa	2019-01-20	2019-01-17
3	10000	cash	2018-12-01	2018-12-01
4	10000	cash	2018-12-08	2018-12-01
5	16000	paytm	2018-11-24	2018-11-24
6	12000	cash	2019-02-25	2019-02-24
1	30000	mastercard	2019-03-11	2019-03-11
7	12000	mastercard	2019-04-01	2019-04-01
8	20000	visa	2018-12-31	2018-12-31
9	10000	visa	2019-01-01	2018-12-31
10	6000	visa	2019-01-01	2018-12-31
11	12000	paytm	2019-02-25	2019-02-25
12	20000	mastercard	2018-12-15	2018-12-15
13	24000	cash	2019-03-20	2019-03-20

13 rows in set (0.00 sec)

**7. SELECT roomID, phone, email FROM Rooms LEFT JOIN Bookings on
Rooms.booking = Bookings.reservationID;**

Get contact details for booked rooms.

```
mysql> select roomID, phone, email from rooms left join bookings on rooms.booking=bookings.reservationID;
```

roomID	phone	email
EA11	NULL	NULL
EA12	3409875032	lalita@gmail.com
EA13	NULL	NULL
EA14	NULL	NULL
EA15	3409875032	lalita@gmail.com
GR11	5947832650	tejaswani@gmail.com
GR12	8943785944	virat@gmail.com
GR13	NULL	NULL
GR14	NULL	NULL
LG11	8352017941	teena@gmail.com
LG12	4935671991	ambika@gmail.com
LG13	4935671991	ambika@gmail.com
LG14	NULL	NULL
LG15	NULL	NULL
M11	4598327841	isha@gmail.com
M12	NULL	NULL
M13	4758379324	sushant@gmail.com
M14	NULL	NULL
M15	NULL	NULL
M16	NULL	NULL
N11	NULL	NULL
N12	NULL	NULL
N13	9382578615	nikita@gmail.com
N14	NULL	NULL
SS11	9574836525	chitranjan@gmail.com
SS12	9574836525	chitranjan@gmail.com
SS13	7836245798	manjari@gmail.com
SS14	NULL	NULL
SS15	NULL	NULL
SS16	NULL	NULL

30 rows in set (0.00 sec)

8. SELECT Employees.name, Hotels.name, address FROM Employees, Hotels WHERE Employees.hotelName=Hotels.name;

```
mysql> select employees.name, hotels.name, address from employees, hotels where employees.hotelName=hotels.name;
```

name	name	address
Bagwati Mathew	Elder Aegis	35, Chand Society, Darjeeling
Rohini Menon	Golden Ribbon	10, Pranay Lake, Mumbai
Nitin Khurana	Golden Ribbon	10, Pranay Lake, Mumbai
Parveen Mukherjee	Golden Ribbon	10, Pranay Lake, Mumbai
Ehsaan Saha	Lunar Garden	88, Payal Heights, Cochin
Omar Mohabir	Moonlight	23, Amrita Nagar, Goa
Lakshmi Atwal	Moonlight	23, Amrita Nagar, Goa
Tulsi Lalla	Nourish	22, Ram Garh, Agra
Naseer Narayanan	Nourish	22, Ram Garh, Agra
Mohan Dada	Sublime Sierra	11, Malad, Guwahati

10 rows in set (0.00 sec)

9. SELECT type, count(*) AS occupied from Rooms, Bookings WHERE Rooms.booking = Bookings.reservationID GROUP BY type ORDER BY occupied DESC;

See most popular rooms.

```
mysql> select type, count(*) as occupied from rooms, bookings where rooms.booking=bookings.reservationID group by type order by occupied desc;
```

type	occupied
Double Suite	5
Deluxe	3
Super Deluxe	3
Single Suite	1
Presidential	1

5 rows in set (0.00 sec)

10. SELECT Hotels.name, COUNT(*) AS peoplestaying FROM Hotels, Rooms, Bookings, Guests WHERE Hotels.name = Rooms.hotelName AND Rooms.booking = Bookings.reservationID AND Guests.reservationID = Bookings.reservationID GROUP BY hotelName ORDER BY peoplestaying;

Find out how many people are staying in each hotel.

```
mysql> select hotels.name, count(*) from hotels, rooms, bookings, guests where hotels.name=rooms.hotelName and rooms.booking=bookings.reservationID and guests.reservationID=bookings.reservationID group by hotelName;
```

name	count(*)
Elder Aegis	8
Golden Ribbon	8
Lunar Garden	9
Moonlight	4
Nourish	2
Sublime Sierra	10

6 rows in set (0.00 sec)