#### Group 42

- 1. Bhupesh Singh Kainth (2017040)
- 2. Shloak Aggarwal (2017107)

#### 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

## 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				from guests,	payments	where	guests.reservationID=payment	s.reservationID
l name	l p	aymentID	reservationID					
Nayan Bhatia	-+ 	 2 I	1					
Shashank Bhatia		2 1	1					
Lalita Bhatia		2 1	1					
Daanish Bhatia		2 1	11					
Isha Bansal		3 1	2 1					
Isha Bansal		4	2					
Urmila Samra		3 1	2 1					
l Urmila Samra		4 1	2 1					
l Teena Dhar		5 1	3					
Hassan Bahl		5 1	3					
l Namita Malhotra	ī	5.1	3 1					

#### 4. SELECT nationality FROM guests GROUP BY nationality;

Get the nationalities of all the guests.



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.

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

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 | payth | 2018-12-14 | 2018-12-01 |
| 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 | payth | 2019-02-25 | 2019-02-25 |
| 12 | 20000 | mastercard | 2019-03-20 | 2019-03-20 |

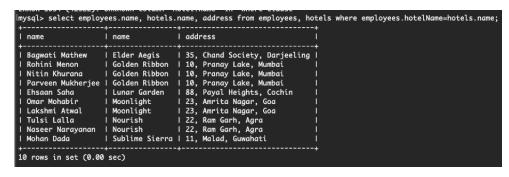
13 rows in set (0.00 sec)
```

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

Get contact details for booked rooms.

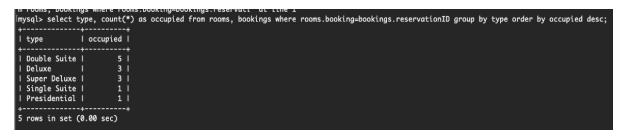
	l phone	email
EA11		NULL
EA12	1 3409875032	lalita@gmail.com
EA13		I NULL I
EA14		I NULL I
EA15		lalita@gmail.com
GR11		tejaswani@gmail.com
GR12		virat@gmail.com
GR13		I NULL I
GR14		I NULL I
LG11		teena@gmail.com
		I ambika@gmail.com
LG13	4935671991	
LG14		I NULL I
LG15		I NULL I
M11		isha@gmail.com
M12		I NULL I
M13		sushant@gmail.com
M14		NULL
M15		I NULL I
M16 N11		I NULL I
		I NULL I
N12 N13		NULL
N13 N14		nikita@gmail.com
SS11		NOLE
SS12		chitranjan@gmail.com
SS12		I manjari@gmail.com
SS14		NULL
SS15		I NULL I
SS16		I NULL I

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



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.



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.

