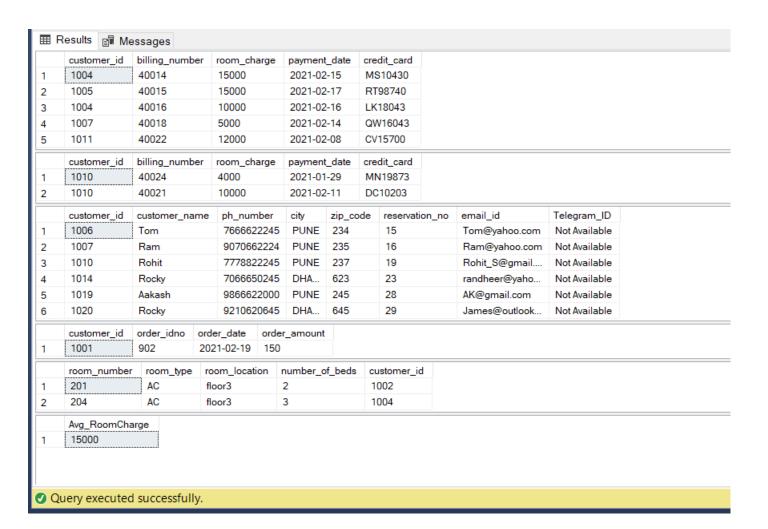
DBMS_LAB_ASSIGNMENT_4

Name: Param D. Mane Roll No: 19BCS121 Team No: 2 Database: Hotel Q1) Write 5 Nested Queries for your respective database (HOTEL). Query: USE team2_hotel; SELECT *FROM team2 billing WHERE customer_id IN (SELECT DISTINCT customer_id FROM team2_menu WHERE order_amount = 250); SELECT *FROM team2 billing WHERE customer_id = (SELECT customer_id FROM team2_rooms WHERE room_number = 210) ORDER BY payment date; SELECT *FROM team2 customer WHERE email_id IN (SELECT email_id FROM T2_DB_HOTEL.dbo.T2_customer WHERE city = 'DHARWAD' or city = 'PUNE'); SELECT *FROM team2 menu WHERE order date = (SELECT payment date FROM team2 billing WHERE credit card = 'RS15438'); SELECT *FROM team2 rooms WHERE customer id IN ((SELECT customer id FROM team2 customer WHERE customer name IN (SELECT customer name FROM T2 DB HOTEL.dbo.T2 customer WHERE zip code = 124))); SELECT AVG(room_charge) AS Avg_RoomCharge FROM team2_billing WHERE payment_date IN(SELECT order_date FROM team2_menu WHERE order_idno = 902 or order_idno = 905);



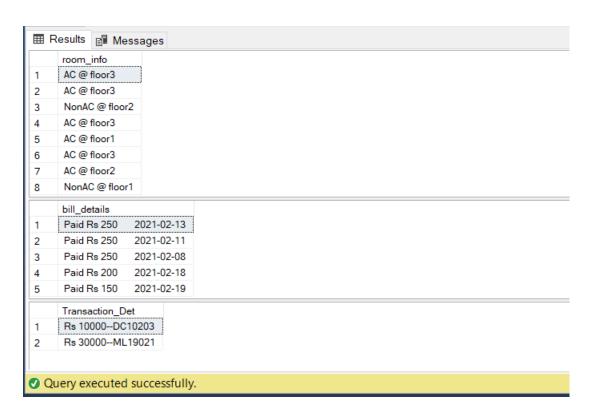
Q2) Illustrate how we can use CONCAT and AS operators in SQL.

Query:

```
USE team2_hotel;
SELECT TOP 10 CONCAT(room_type,' @ ',room_location) AS room_info FROM team2_rooms;

SELECT TOP 5 CONCAT('Paid Rs ',order_amount,order_date) AS bill_details FROM team2_menu WHERE customer_id IN
(SELECT customer_id FROM team2_customer WHERE city = 'MUMBAI')
ORDER BY order_amount desc;

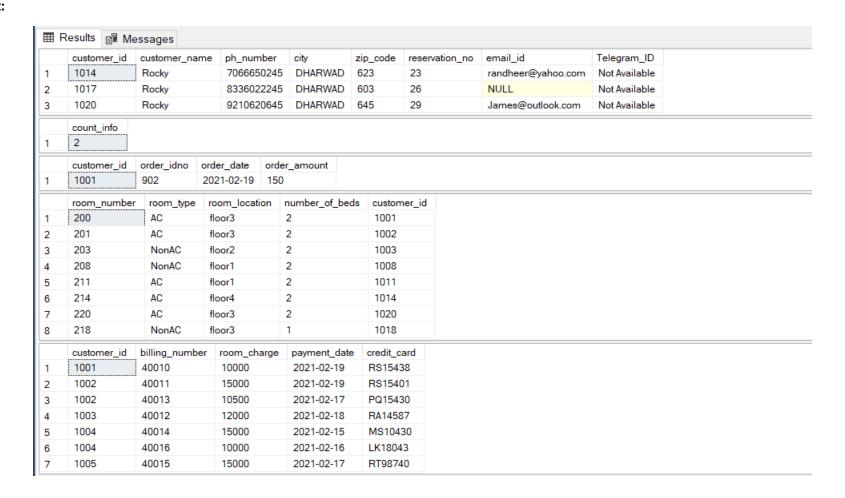
SELECT TOP 10 CONCAT('Rs ',room_charge,'--',credit_card) AS Transaction_Det FROM team2_billing WHERE payment_date = '2021-02-11';
```



Q3) Illustrate all the comparison operators.

Query:

```
USE team2 hotel;
/*=*/
SELECT *FROM team2_customer WHERE customer_name = 'Rocky';
SELECT count(DISTINCT room charge) AS count info FROM team2 billing WHERE customer id = 1010;
SELECT *FROM team2 menu
WHERE order_date = (SELECT payment_date FROM team2_billing WHERE credit_card = 'RS15438');
/*<=*/
SELECT *FROM team2_rooms WHERE number_of_beds <=2 ORDER BY number_of_beds desc;</pre>
SELECT *FROM team2_billing WHERE customer_id <=(SELECT customer_id FROM team2_menu WHERE order_idno = 904 )</pre>
ORDER BY customer id;
/*>=*/
SELECT *FROM team2 menu WHERE order amount >= 200 and order idno > 906;
SELECT count(customer_name) AS name_count FROM team2_customer WHERE reservation_no >= 25;
SELECT SUM(room_charge) FROM team2_billing WHERE billing_number >= 40025;
/*!=*/
SELECT *FROM team2_rooms
WHERE room_location != 'floor1' and room_type != 'NonAC' and number_of_beds != 2 ORDER BY room_location;
SELECT TOP 5 customer name FROM T2 DB HOTEL.dbo.T2 customer
WHERE city != (SELECT city FROM team2 hotel.dbo.team2 customer WHERE zip code = 126);
```



	customer_id	order_idno	order_date	order_amount		
1	1007	907	2021-02-11	250		
2	1010	909	2021-02-08	200		
3	1011	910	2021-02-08	250		
	name_count					
1	5					
	(No column na	me)				
1	87000					
	room_number	room_type	room_locati	on number_of_	beds	customer_id
1	207	AC	floor2	3		1007
2	212	AC	floor2	1		1012
3	209	AC	floor3	4		1009
4	204	AC	floor3	3		1004
5	206	AC	floor3	3		1006
6	215	AC	floor4	3		1015
7	217	AC	floor5	4		1017
8	219	AC	floor5	4		1019
	customer_nam	ie				
1	Tom					
2	Ram					
3	Arjun					
4	Param					
5	Rohit					

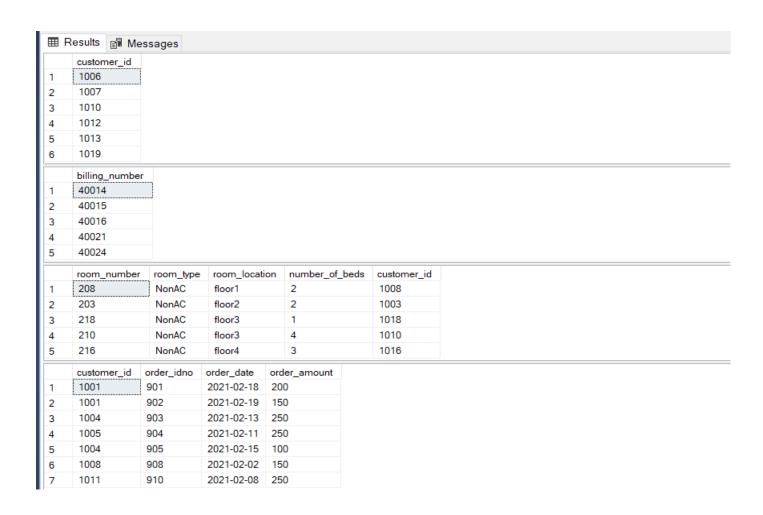
Query executed successfully.

Q4) Illustrate Logical operators except ANY, ALL and LIKE.

Query:

```
USE team2 hotel;
/*IN*/
SELECT customer_id FROM team2_customer WHERE city IN('PUNE','HUBLI');
SELECT billing number FROM team2 billing
WHERE customer id IN(SELECT customer id FROM team2 menu WHERE order idno IN(903,904,909));
/*NOT IN*/
SELECT *FROM team2 rooms WHERE room type NOT IN('AC') ORDER BY room location;
SELECT *FROM team2 menu WHERE customer id NOT IN
(SELECT customer_id FROM T2_DB_HOTEL.dbo.T2_customer WHERE city NOT IN('HUBLI','MUMBAI','BANGLORE'));
/*BETWEEN*/
SELECT *FROM team2 billing WHERE room charge BETWEEN 5000 and 12000 ORDER BY room charge;
SELECT order idno FROM team2 menu WHERE order date BETWEEN '2021-02-06' and '2021-02-13' and order amount BETWEEN
220 and 250;
SELECT *FROM team2_rooms WHERE room_number BETWEEN 201 and 206 and number_of_beds NOT IN(2);
/*OR*/
SELECT customer name FROM team2 customer WHERE reservation no = 15 or reservation no = 20;
SELECT COUNT(billing_number) AS CountB_No FROM team2_billing WHERE room_charge = 15000 or room_charge = 30000;
SELECT customer id, count(order amount) AS oa count info FROM team2 menu
WHERE order amount = 200 or order amount = 150 GROUP BY customer id;
```

```
/*AND*/
SELECT ph_number FROM team2_customer WHERE customer_name = 'Ram' and city = 'Pune';
SELECT *FROM team2_menu WHERE order_date = '2021-02-08' and order_amount = 250;
```



	customer_id	billing_numbe	er room_charg	je payment_date	credit_card
1	1007	40018	5000	2021-02-14	QW16043
2	1010	40021	10000	2021-02-11	DC10203
3	1014	40026	10000	2021-01-13	JK12430
4	1001	40010	10000	2021-02-19	RS15438
5	1004	40016	10000	2021-02-16	LK18043
6	1002	40013	10500	2021-02-17	PQ15430
7	1006	40017	12000	2021-02-10	YU01243
8	1003	40012	12000	2021-02-18	RA14587
9	1015	40027	12000	2021-02-04	SE04143
10	1011	40022	12000	2021-02-08	CV15700
	order_idno				
1	903				
2	904				
3	904				
3 4	910				
4	910				
	room_number		room_location		
1	204	AC	floor3	3	1004
2	205	AC	floor1	1	1005
3	206	AC	floor3	3	1006
	customer_nam	ne			
1	Tom				
2	Ash				
_					
	CountB_No				
1	7				
	customer_id	oa_count_info)		
1	1001	2			
2	1006	1			
3	1008	1			
4	1010	1			
	ph_number				
	9070662224				
1	9070002224	1			
	customer_id	order_idno	order_date o	rder_amount	
1	1011	910	2021-02-08 2	50	

