DBMS_LAB_ASSIGNMENT_4

Name: Rohit Sagar Shinde Roll No: 19BCS099 Team No: 2 Database: Hotel Q1) Write 5 Nested Queries for your respective database (HOTEL). Query: USE team 2 hotel; SELECT *FROM team 2 billing WHERE customer_id IN (SELECT DISTINCT customer_id FROM team_2_menu WHERE order_amount = 250); SELECT *FROM team 2 billing WHERE customer id = (SELECT customer_id FROM team_2_rooms WHERE room_number = 210) ORDER BY payment date; SELECT *FROM team 2 customer WHERE email id IN (SELECT email id FROM T2 DB HOTEL.dbo.T2 customer WHERE city = 'DHARWAD' or city = 'PUNE'); SELECT *FROM team 2 menu WHERE order_date = (SELECT payment_date FROM team_2_billing WHERE credit_card = 'RS15438'); SELECT *FROM team 2 rooms WHERE customer id IN ((SELECT customer id FROM team 2 customer WHERE customer name IN

WHERE payment_date IN(SELECT order_date FROM team_2_menu WHERE order_idno = 902 or order_idno = 905);

(SELECT customer_name FROM T2_DB_HOTEL.dbo.T2_customer WHERE zip_code = 124)));

SELECT AVG(room charge) AS Avg RoomCharge FROM team 2 billing

	customer_id	_billing_number	room_charge	payment_date	credit_c	ard		
1	1004	40014	15000	2021-02-15	MS104	30		
2	1005	40015	15000	2021-02-17	RT9874	10		
3	1004	40016	10000	2021-02-16	LK1804	3		
4	1007	40018	5000	2021-02-14	QW160	43		
5	1011	40022	12000	2021-02-08	CV1570	0		
	customer_id	billing_number	room_charge	payment_date	e credit_c	ard		
1	1010	40024	4000	2021-01-29	MN198	73		
2	1010	40021	10000	2021-02-11	DC1020)3		
	customer_id	customer_name	e ph_number	city	zip_code	reservation_no	email_id	Telegram_ID
1	1006	Tom	7666622245	PUNE	234	15	Tom@yahoo.com	Not Available
2	1007	Ram	9070662224	PUNE	235	16	Ram@yahoo.com	Not Available
3	1010	Rohit	7778822245	PUNE	237	19	Rohit_S@gmail.com	Not Available
4	1014	Rocky	7066650245	DHARWAD	623	23	randheer@yahoo.com	Not Available
5	1019	Aakash	9866622000	PUNE	245	28	AK@gmail.com	Not Available
6	1020	Rocky	9210620645	DHARWAD	645	29	James@outlook.com	Not Available
	customer_id	order_idno or	rder_date orde	er_amount				
1	1001	902 2	021-02-19 150					
	room_numbe	r room_type	room_location	number_of_be	ds custon	ner_id		
1	201	AC	floor3	2	1002			
2	204	AC	floor3	3	1004			

Query executed successfully.

localhost (15.0 RTM)

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

Query:

```
USE team_2_hotel;
SELECT TOP 10 CONCAT(room_type,' @ ',room_location) AS room_info FROM team_2_rooms;

SELECT TOP 5 CONCAT('Paid Rs ',order_amount,order_date) AS bill_details FROM team_2_menu WHERE customer_id IN
(SELECT customer_id FROM team_2_customer WHERE city = 'MUMBAI')
ORDER BY order_amount desc;

SELECT TOP 10 CONCAT('Rs ',room_charge,'--',credit_card) AS Transaction_Det FROM team_2_billing WHERE payment_date
= '2021-02-11';
```


	room_info
1	AC @ floor3
2	AC @ floor3
3	NonAC @ floor2
4	AC @ floor3
5	NonAC @ floor1
6	AC @ floor3
7	AC @ floor2
8	NonAC @ floor1

	bill_details	
1	Paid Rs 250	2021-02-13
2	Paid Rs 250	2021-02-11
3	Paid Rs 250	2021-02-08
4	Paid Rs 200	2021-02-18
5	Paid Rs 150	2021-02-19

	Transaction_Det
1	Rs 10000DC10203
2	Rs 30000ML19021

Query executed successfully.

Q3) Illustrate all the comparison operators.

Query:

```
USE team 2 hotel;
/*=*/
SELECT *FROM team_2_customer WHERE customer_name = 'Rocky';
SELECT count(DISTINCT room_charge) AS count_info FROM team_2_billing WHERE customer_id = 1010;
SELECT *FROM team 2 menu
WHERE order date = (SELECT payment date FROM team 2 billing WHERE credit card = 'RS15438');
/*<=*/
SELECT *FROM team_2_rooms WHERE number_of_beds <=2 ORDER BY number_of_beds desc;</pre>
SELECT *FROM team 2 billing WHERE customer id <=(SELECT customer id FROM team 2 menu WHERE order idno = 904 )
ORDER BY customer id;
/*>=*/
SELECT *FROM team 2 menu WHERE order amount >= 200 and order idno > 906;
SELECT count(customer_name) AS name_count FROM team_2_customer WHERE reservation_no >= 25;
SELECT SUM(room_charge) FROM team_2 billing WHERE billing_number >= 40025;
/*!=*/
SELECT *FROM team 2 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
team 2 hotel.dbo.team 2 customer WHERE zip code = 126);
```

	customer_id	customer_nar	me ph_number	city	zip_code	reservation_no	email_id	Telegram_ID
1	1014	Rocky	706665024	5 DHARWAD	623	23	randheer@yahoo.com	Not Available
2	1017	Rocky	833602224	5 DHARWAD	603	26	NULL	Not Available
3	1020	Rocky	921062064	5 DHARWAD	645	29	James@outlook.com	Not Available
	count_info							
1	2							
	customer_id	order_idno	order_date ord	der_amount				
1	1001	902	2021-02-19 15	0				
	room_number	room_type	room_location	number_of_b	eds custon	ner_id		
1	200	AC	floor3	2	1001			
2	201	AC	floor3	2	1002			
3	203	NonAC	floor2	2	1003			
4	208	NonAC	floor1	2	1008			
5	211	AC	floor1	2	1011			
6	214	AC	floor4	2	1014			
7	220	AC	floor3	2	1020			
8	218	NonAC	floor3	1	1018			
9	212	NonAC	floor2	1	1012			
10	205	NonAC	floor1	1	1005			
	customer_id	billing_numbe	er room_charge	payment_da	ate credit_c	ard		
1	1001	40010	10000	2021-02-19	RS1543	38		
2	1002	40011	15000	2021-02-19	RS1540)1		
3	1002	40013	10500	2021-02-17	PQ1543	30		
4	1003	40012	12000	2021-02-18	RA1458	37		
5	1004	40014	15000	2021-02-15	MS104	30		
6	1004	40016	10000	2021-02-16	LK1804	3		
7	1005	40015	15000	2021-02-17	RT9874	10		

	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

(No column name) 1 87000

	room_number	room_type	room_location	number_of_beds	customer_id
1	207	AC	floor2	3	1007
2	209	AC	floor3	4	1009
3	204	AC	floor3	3	1004
4	206	AC	floor3	3	1006
5	215	AC	floor4	3	1015
6	217	AC	floor5	4	1017
7	219	AC	floor5	4	1019

 customer_name

 1
 Tom

 2
 Ram

 3
 Arjun

 4
 Param

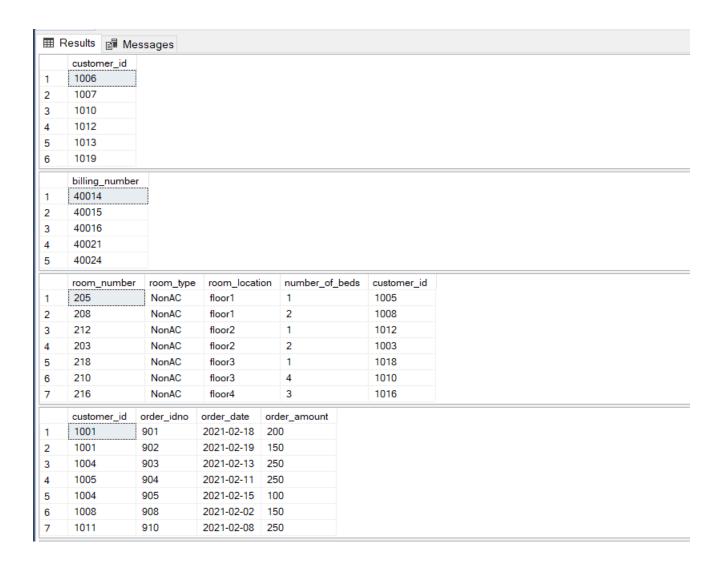
 5
 Rohit

Query executed successfully.

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

Query:

```
USE team 2 hotel;
/*IN*/
SELECT customer id FROM team 2 customer WHERE city IN('PUNE','HUBLI');
SELECT billing number FROM team 2 billing WHERE customer_id IN(SELECT customer_id FROM team 2 menu WHERE order_idno
IN(903,904,909));
/*NOT IN*/
SELECT *FROM team 2 rooms WHERE room type NOT IN('AC') ORDER BY room location;
SELECT *FROM team_2_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 team 2 billing WHERE room charge BETWEEN 5000 and 12000 ORDER BY room charge;
SELECT order_idno FROM team_2_menu WHERE order_date BETWEEN '2021-02-06' and '2021-02-13' and order_amount BETWEEN
220 and 250;
SELECT *FROM team 2 rooms WHERE room number BETWEEN 201 and 206 and number of beds NOT IN(2);
/*OR*/
SELECT customer_name FROM team_2_customer WHERE reservation_no = 15 or reservation_no = 20;
SELECT COUNT(billing number) AS CountB No FROM team 2 billing WHERE room charge = 15000 or room charge = 30000;
SELECT customer id, count(order amount) AS oa count info FROM team 2 menu
WHERE order amount = 200 or order amount = 150 GROUP BY customer id;
/*AND*/
SELECT ph number FROM team 2 customer WHERE customer name = 'Ram' and city = 'Pune';
SELECT *FROM team 2 menu WHERE order date = '2021-02-08' and order amount = 250;
```



	customer_id	billing_numbe	er room_charg	je payment_date	e credit_card
1	1007	40018	5000	2021-02-14	QW16043
2	1010	40021	10000	2021-02-11	DC10203
3	1014	40021	10000	2021-02-11	JK12430
4	1001	40010	10000	2021-02-19	RS15438
5	1001	40016	10000	2021-02-19	LK18043
	1004	40013	10500		
6				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	907				
4	910				
	room_number	room_type	room_location	number_of_bed	ds customer_id
1	204	AC	floor3	3	1004
2	205	NonAC	floor1	1	1005
3	206	AC	floor3	3	1006
	quatomor nam	20			
1	customer_nam Tom	ie			
1					
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				
1	9070662224	<u>.</u>			
	customer_id	order_idno	order_date o	rder_amount	
1	1011	910		50	
	I				