

## DBMS Lab Assignment-4

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**Q2) Illustrate how we can use Concat and As operators in SQL (minimum 3 queries)**

QUERY for concat

```
USE HOTEL;

SELECT CONCAT(DNO, ',', Street, ',', City, ',', State) AS Customer_permanent_address FROM T2_CUSTOMER_ADDRESS;

SELECT CONCAT(Room_number, ',', Room_location, ',') AS Room_address FROM T2_Rooms;
```

%

Results Messages

Room_address
1.block-2,
2.block-1,
3.block-2,

QUERY for as

```
USE HOTEL;

SELECT CONCAT(DNO, ',', Street, ',', City, ',', State) AS Customer_permanent_address FROM T2_CUSTOMER_ADDRESS;

SELECT CONCAT(Room_number, ',', Room_location, ',') AS Room_address FROM T2_Rooms;

SELECT empname AS Waiters FROM emp_info WHERE Salary < 7000;
```

%

Results Messages

Waiters
Max
Nax

## QUERY for as and concat

The screenshot displays the Microsoft SQL Server Management Studio interface. The 'Object Explorer' on the left shows the database structure for 'HOTEL'. The 'Query Editor' in the center contains the following SQL query:

```
USE HOTEL;  
SELECT CONCAT(DMO,' ',Street,', ',City,', ',State) AS Customer_permanent_address FROM T2_CUSTOMER_ADDRESS;
```

The 'Results' pane at the bottom shows the output of the query, which is a table with one column, 'Customer\_permanent\_address', and four rows of concatenated address strings.

Customer_permanent_address
7-11 RPR NAGAR,Nagpur,Madhya pradesh
9-12,Sriram nagar,Hyderabad,Telangana
7-13,JIS Nagar,Lucknow,Uttar pradesh
7-8-12,Indira NAGAR,Bengaluru,Karnataka

The status bar at the bottom indicates that the query was executed successfully on the 'HOTEL' database.

### Q3) Illustrate all the Comparison operator (2 queries for each operator)

The comparison operators are =, >, <, >=, <=, <>

<> Is the not operator

#### QUERY

##### “=” Operator

```
USE HOTEL;

SELECT * FROM T2_Rooms WHERE Room_location='block-2';

SELECT * FROM T2_CUSTOMER_ADDRESS WHERE Customer_ID='3';
```

0 %

Results Messages

Room_number	Room_Type	Room_location	number_of_beds	Customer_ID
1	Deluxe	block-2	1	2
3	Deluxe	block-2	1	4

Customer_ID	Street	DNO	City	State
3	JS Nagar	7-13	Lucknow	Utter pradesh

##### “>” Operator

```
SELECT * FROM T2_Billing WHERE Room_charge > '2500';

SELECT * FROM T2_Reservation WHERE Number_of_guests > '3';
```

0 %

Results Messages

Billing_#	Room_charge	Credit_card	Payment_date	Customer_ID
2	5000	9876543211	2021-05-05	2
3	6000	1234987655	2021-09-30	3
4	3000	5546666666	2021-12-11	4

Reservation_number	Check_in_date	Check_out_date	Number_of_guests	Reservation_date	Customer_ID	Room_number
1	1999-02-03	1999-02-22	5	1999-02-01	2	1
2	1999-02-03	1999-02-22	4	1999-02-03	1	2

#### Q4) Illustrate Logical operators except ANY, ALL and Like (2 queries for each

operator)The logical operators are AND, OR, IN, BETWEEN, NOT

##### QUERY for “AND”

```
=SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;  
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';
```

Service_ID	Service_name	Service_cost	Reservation_number
2	Transport	8000	3
3	Room	4000	2

Room_number	Room_Type	Room_location	number_of_beds	Customer_ID
1	Deluxe	block-2	1	2
3	Deluxe	block-2	1	4

##### QUERY for “OR”

```
=SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;  
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';  
SELECT Reservation_number FROM T2_Reservation WHERE Reservation_date > '1999-02-02' OR Room_number = '1';  
SELECT Customer_ID FROM T2_CUSTOMER_ADDRESS WHERE Street='JS Nagar' OR DNO = '9-12';
```

Reservation_number
1
2
3

Customer_ID
2
3

## QUERY for "IN"

```
SELECT * FROM T2_SERVICES WHERE Service_cost > '2000' AND Service_ID >= 2;  
SELECT * FROM T2_Rooms WHERE number_of_beds = '1' AND Room_location = 'block-2';  
  
SELECT Reservation_number FROM T2_Reservation WHERE Reservation_date > '1999-02-02' OR Room_number = '1';  
SELECT Customer_ID FROM T2_CUSTOMER_ADDRESS WHERE Street='JS Nagar' OR DNO = '9-12';  
  
SELECT * FROM T2_Customer WHERE City IN ('hyderabad', 'Bengaluru');  
SELECT * FROM T2_Billing WHERE Payment_date IN('2021-05-05');
```

0 %

Results Messages

Customer_ID	Customer_Name	Phone_number	City	State	Zipcode	Email_ID
2	Ram	8688543744	hyderabad	TN	534204	Ram@gmail.com
4	Prabha	8688543766	Bengaluru	Karnataka	534201	prab@gmail.com