KUPPA VENKATA KRISHNA PAANCHAJANYA

Registration No.: 19BCS063

Database Management Systems Lab Assignment 4

Question 1: Write 5 Nested Queries for travel database.

Query –

SELECT first_name, last_name, phone FROM T3_CustomerDetails WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails WHERE payment_Amount > 30000);
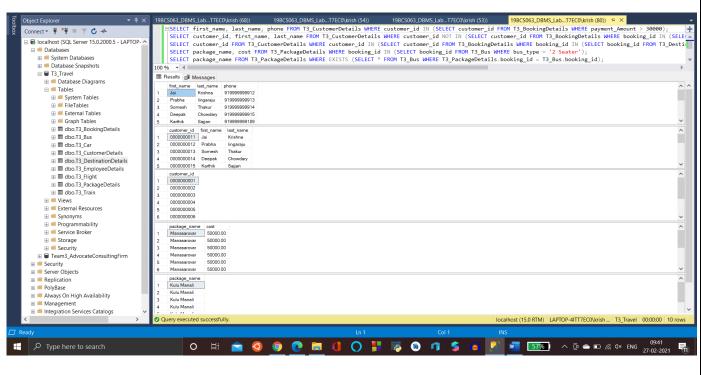
SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE customer_id NOT IN (SELECT customer_id FROM T3_BookingDetails WHERE booking_id IN (SELECT booking_id from T3_PackageDetails WHERE package_name='KULU MANALI'));

SELECT customer_id FROM T3_CustomerDetails WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails WHERE booking_id IN (SELECT booking_id FROM T3_DestinationDetails WHERE hotel_name = 'Raj Palace'));

SELECT package_name, cost FROM T3_PackageDetails WHERE booking_id IN (SELECT booking_id FROM T3_Bus WHERE bus_type = '2 Seater');

SELECT package_name FROM T3_PackageDetails WHERE EXISTS (SELECT * FROM T3_Bus WHERE T3_PackageDetails.booking_id = T3_Bus.booking_id);

Database Output:

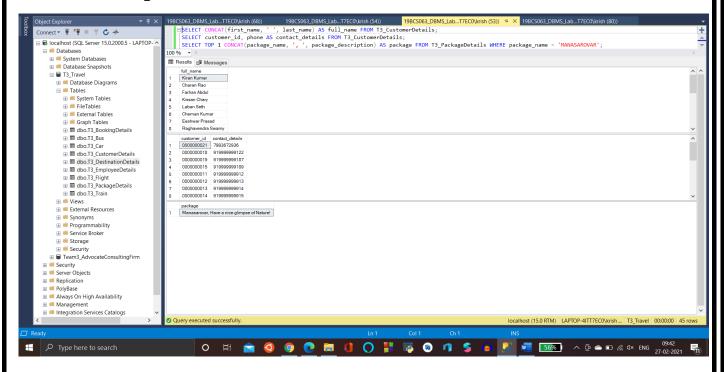**Question 2: Illustrate how we can use CONCAT and AS operators in SQL**

Query –

SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM T3_CustomerDetails;

SELECT customer_id, phone AS contact_details FROM T3_CustomerDetails;

SELECT TOP 1 CONCAT(package_name, ', ', package_description) AS package FROM T3_PackageDetails WHERE package_name = 'MANASAROVAR';

Database Output:

Question 3: Illustrate all the Comparison operators

Query –

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age = 21;

SELECT TOP 1 package_name FROM T3_PackageDetails WHERE cost = 25000;

SELECT customer_id FROM T3_CustomerDetails WHERE gender <> 'M';

SELECT TOP 1 bus_id, bus_type FROM T3_Bus WHERE bus_id <> 8714;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary > 10000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age > 40;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary < 8000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age < 30;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary >= 10000;

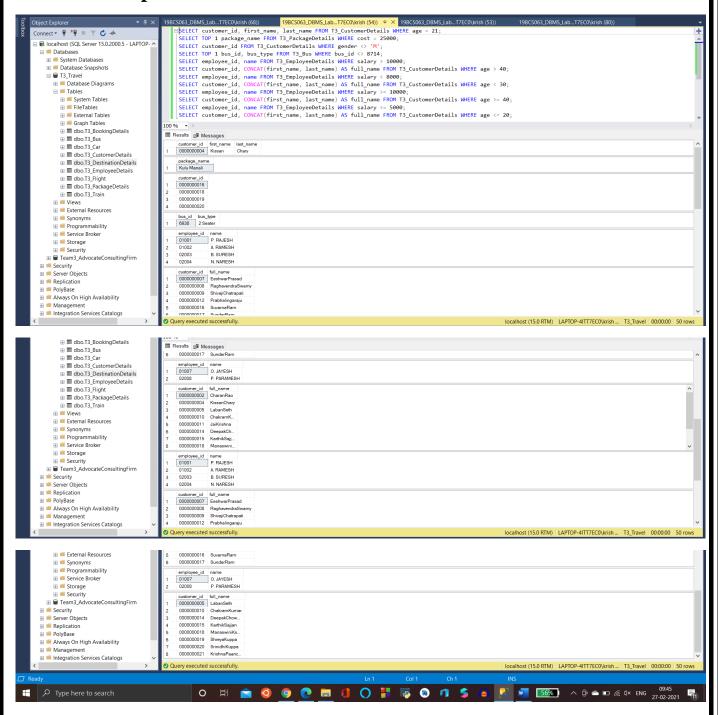SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age >= 40;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary <= 5000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age <= 20;

Database Output:

Question 4: Illustrate Logical operators except ANY, ALL and LIKE

Query –

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 21 AND gender = 'M';

SELECT name FROM T3_EmployeeDetails WHERE salary>=10000 AND designation = 'Driver';

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 40 OR gender = 'M'

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary>=10000 OR designation = 'Luggage Manager';

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE NOT age >= 35;

SELECT bus_id FROM T3_bus WHERE NOT bus_type='Sleeper';

SELECT employee_id, name FROM T3_EmployeeDetails WHERE designation IN ('Driver', 'Cleaner');

SELECT hotel_name FROM T3_DestinationDetails WHERE city IN ('Kulu Manali', 'Burang');

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary BETWEEN 5000 AND 10000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age BETWEEN 21 AND 40;

Database Output:

Results | Messages

	customer_id	first_name	last_name
1	0000000001	Kiran	Kumar
2	0000000002	Charan	Rao
3	0000000004	Kissan	Chary
4	0000000005	Laban	Seth
5	0000000010	Chakram	Kumar
6	0000000011	Jai	Krishna
7	0000000013	Somesh	Thakur
8	0000000014	Deepak	Chowdary

	bus_id
1	6938

	employee_id	name
1	01001	P. RAJESH
2	01002	A. RAMESH
3	01005	R. PARESH
4	02003	B. SURESH
5	02004	N. NARESH
6	02006	T. MALLE...

	hotel_name
1	Raj Palace
2	Raj Palace
3	Raj Palace
4	Raj Palace
5	Raj Palace
6	Raj Palace

Query executed successfully.   localhost (15.0 RTM)   LAPTOP-4ITT7EC0\krish ...   T3_Travel   00:00:00   94 rows

	employee_id	name
1	01005	R. PARESH
2	01007	O. JAYESH
3	02006	T. MALLE...
4	02008	P. PARAM...

	customer_id	full_name
1	0000000001	KiranKumar
2	0000000002	CharanRao
3	0000000003	FarhanAb...
4	0000000004	KissanCh...
5	0000000006	ChemanK...
6	0000000011	JaiKrishna
7	0000000013	SomeshT...
8	0000000024	RathoreVi...

Query executed successfully.   localhost (15.0 RTM)   LAPTOP-4ITT7EC0\krish ...   T3_Travel   00:00:00   94 rows

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