DBMS LAB ASSIGNMENT_4

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19BCS094

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);

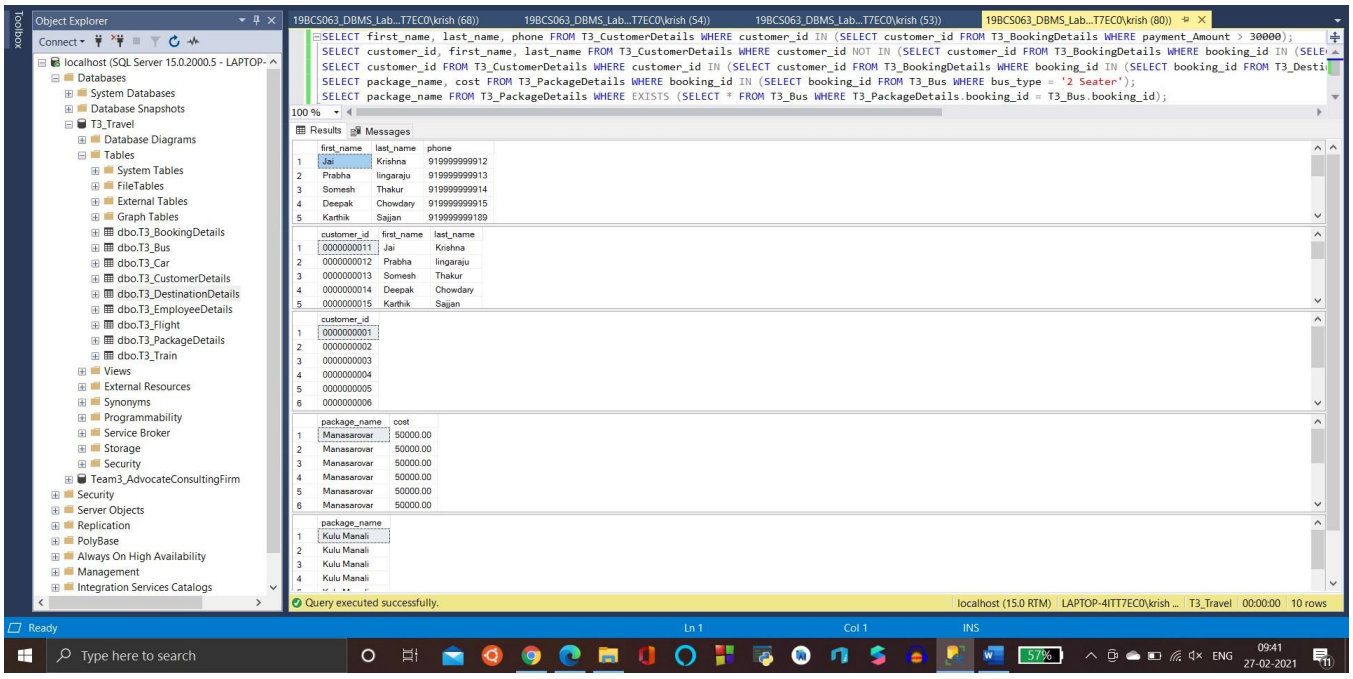
SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE customer_id NOT IN (SELECT customer_id FROM T3_BookingDetails WHERE booking_id IN (SELECT booking_id from T3_PackageDetails WHERE package_name='KULU MANALI'));

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

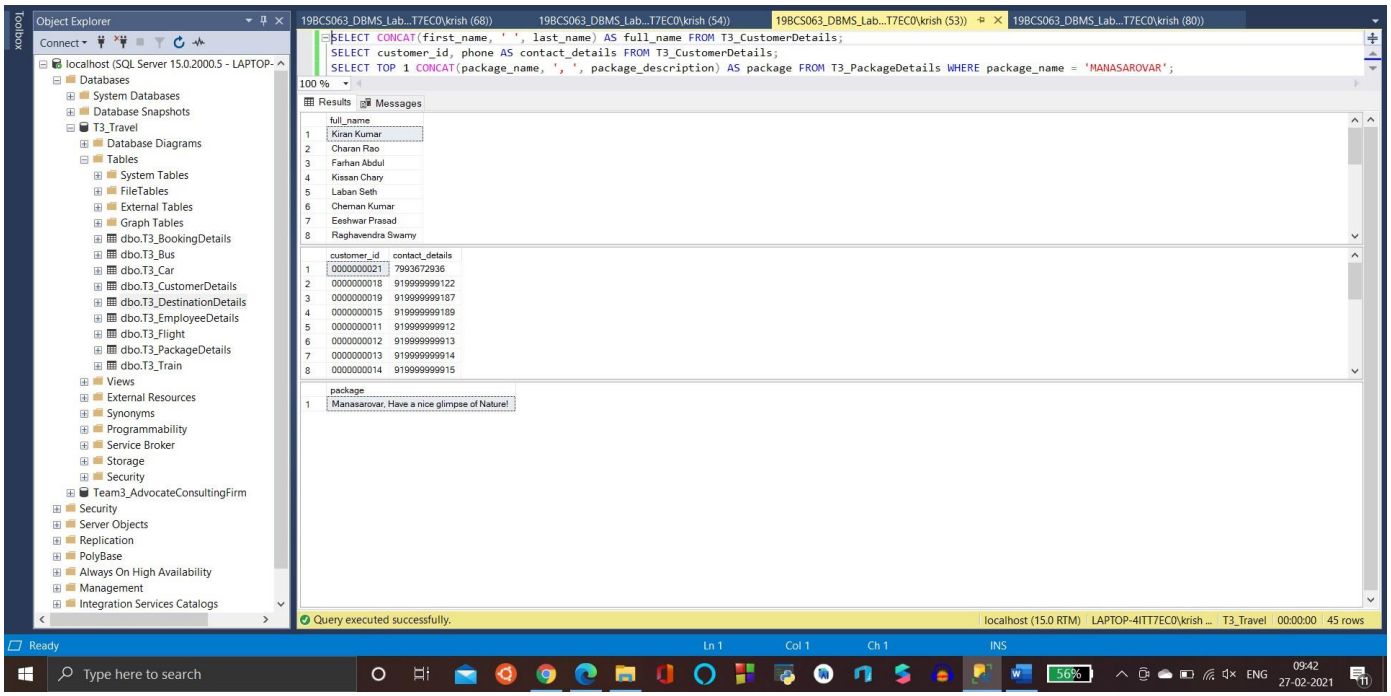
Query –

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;

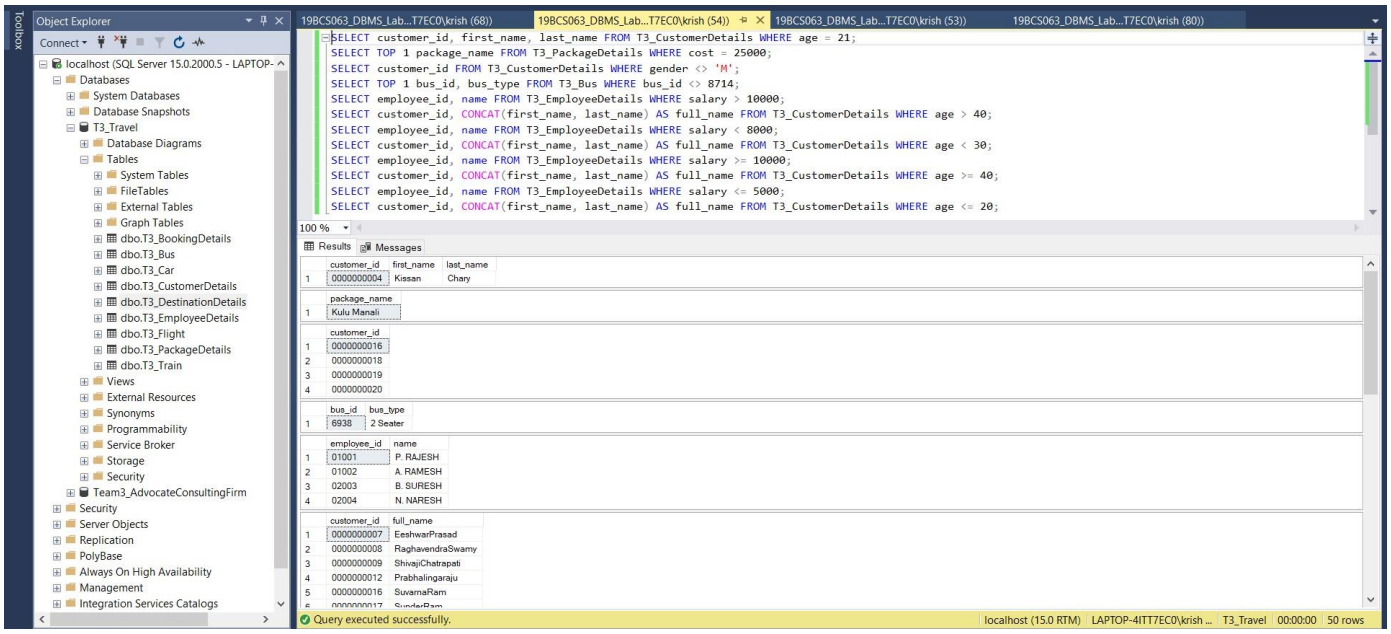
SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary >= 10000;

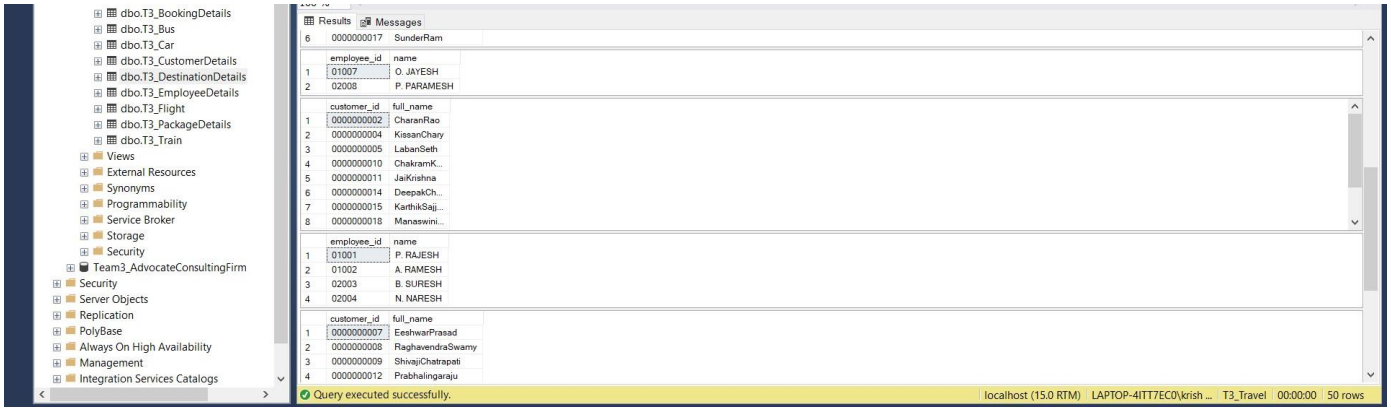
SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age >= 40;

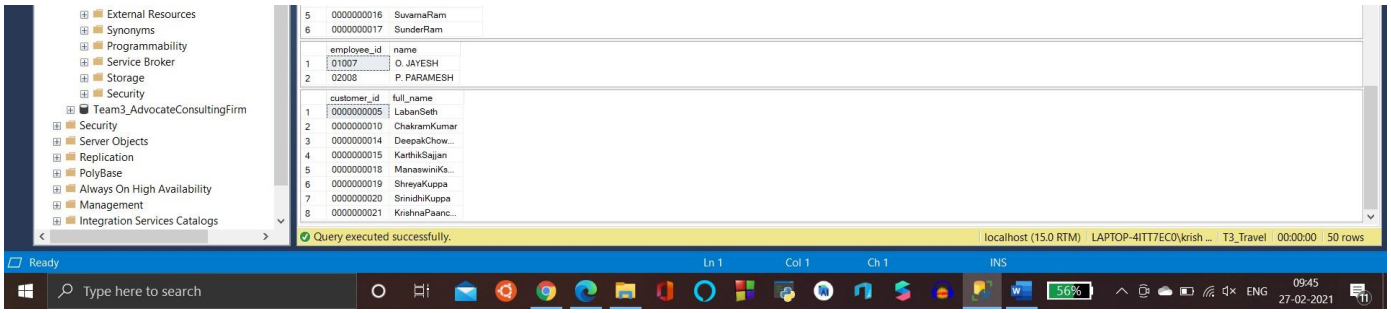
SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary <= 5000;

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';

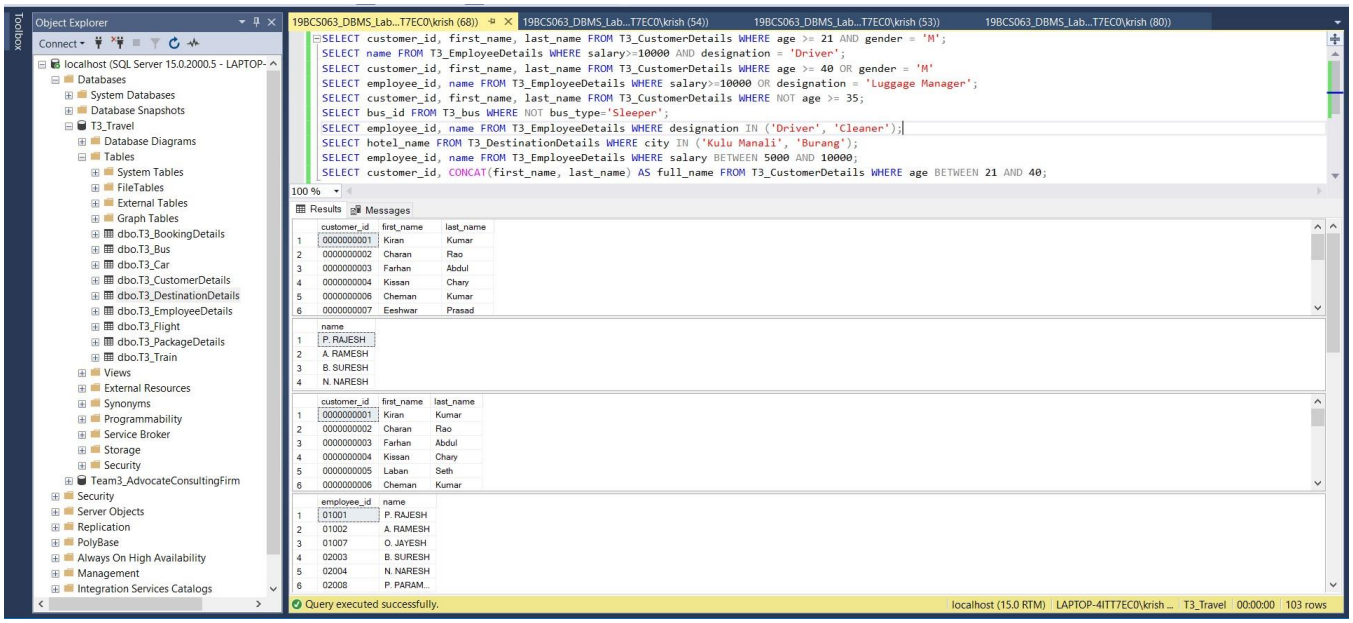
SELECT employee_id, name FROM T3_EmployeeDetails WHERE designation IN ('Driver', 'Cleaner');

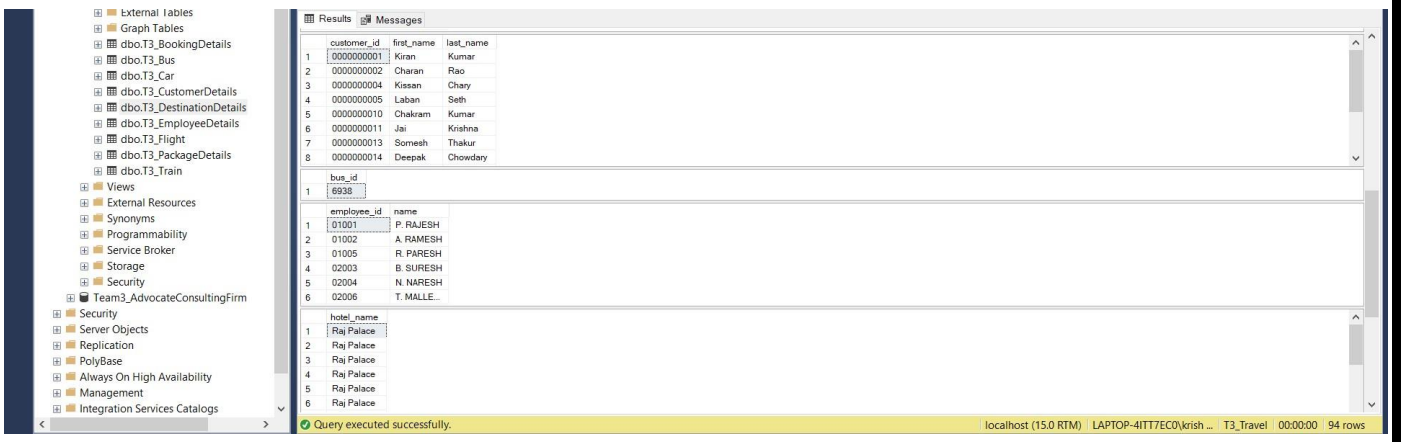
SELECT hotel_name FROM T3_DestinationDetails WHERE city IN ('Kulu Manali', 'Burang');

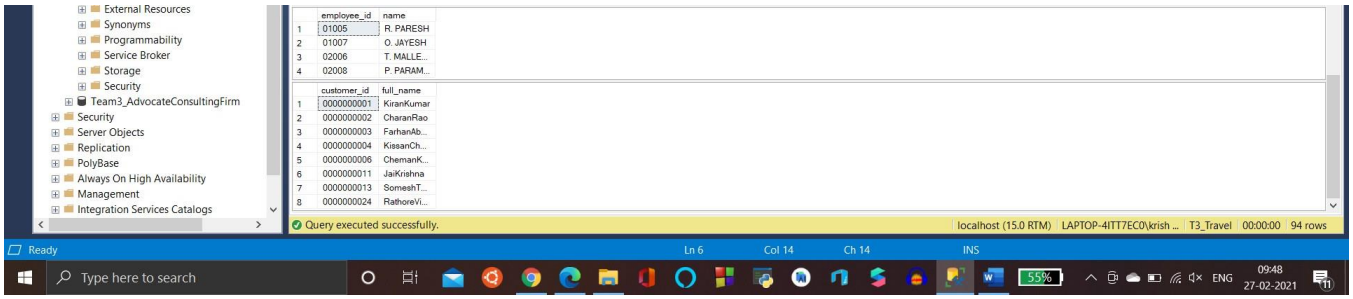
SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary BETWEEN 5000 AND 10000;

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

Database Output:




External Tables
Graph Tables
dbo.T3_BookingDetails
dbo.T3_Bus
dbo.T3_Car
dbo.T3_CustomerDetails
dbo.T3_DestinationDetails
dbo.T3_EmployeeDetails
dbo.T3_Flight
dbo.T3_PackageDetails
dbo.T3_Train
Views
External Resources
Synonyms
Programmability
Service Broker
Storage
Security
Team3_AdvocateConsultingFirm
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
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


External Resources
Synonyms
Programmability
Service Broker
Storage
Security
Team3_AdvocateConsultingFirm
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
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
Ready
Ln 6
Col 14
Ch 14
INS
Type here to search
55%
ENG
09:48
27-02-2021