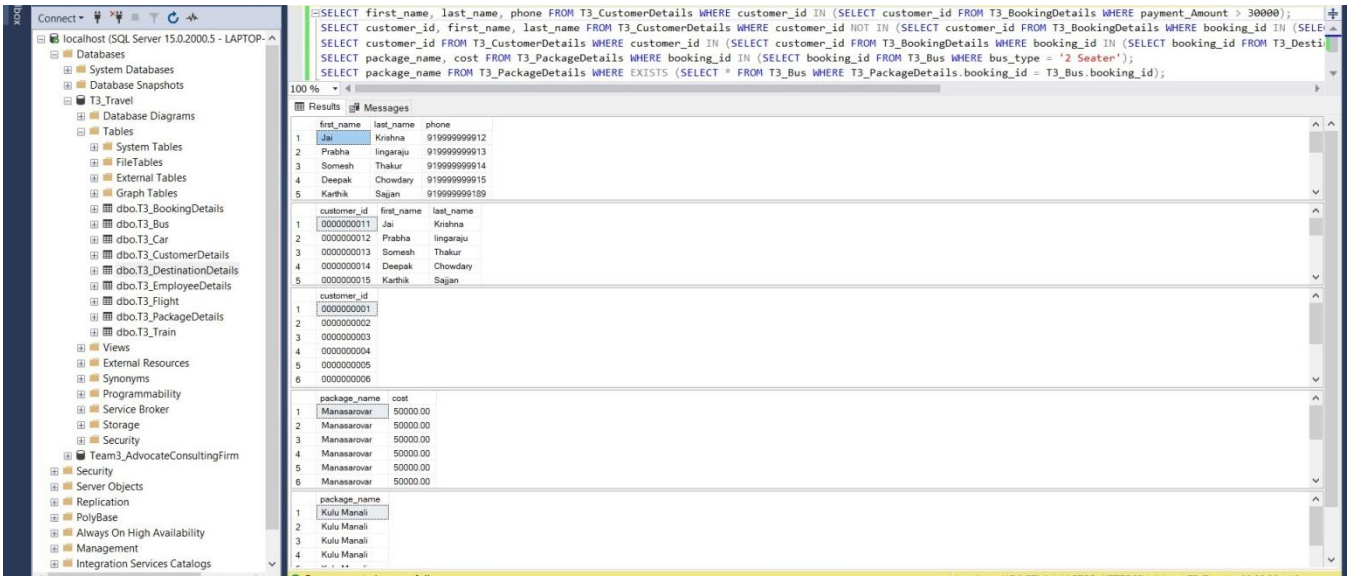
DBMS LAB ASSIGNMENT 4 – 19BCS051- KASHA SINGH

1. Write 5 Nested Queries for your respective database- the queries should not be very similar like just changing the where clause or just building all the queries on only one or two tables etc. The queries should make sense, it should cover most part of your database tables.

QUERY:

```
SELECT first_name, last_name, phone FROM T3_CustomerDetails
WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails
                      WHERE payment_amount>50000);

SELECT customer_id, first_name, last_name from T3_CustomerDetails
WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails
                WHERE booking_id IN(SELECT booking_id FROM T3_PackageDetails
                                              WHERE package_name = 'KULLU MANALI'));

SELECT customer_id FROM T3_CustomerDetails
WHERE customer_id NOT 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);
```

OUTPUT:

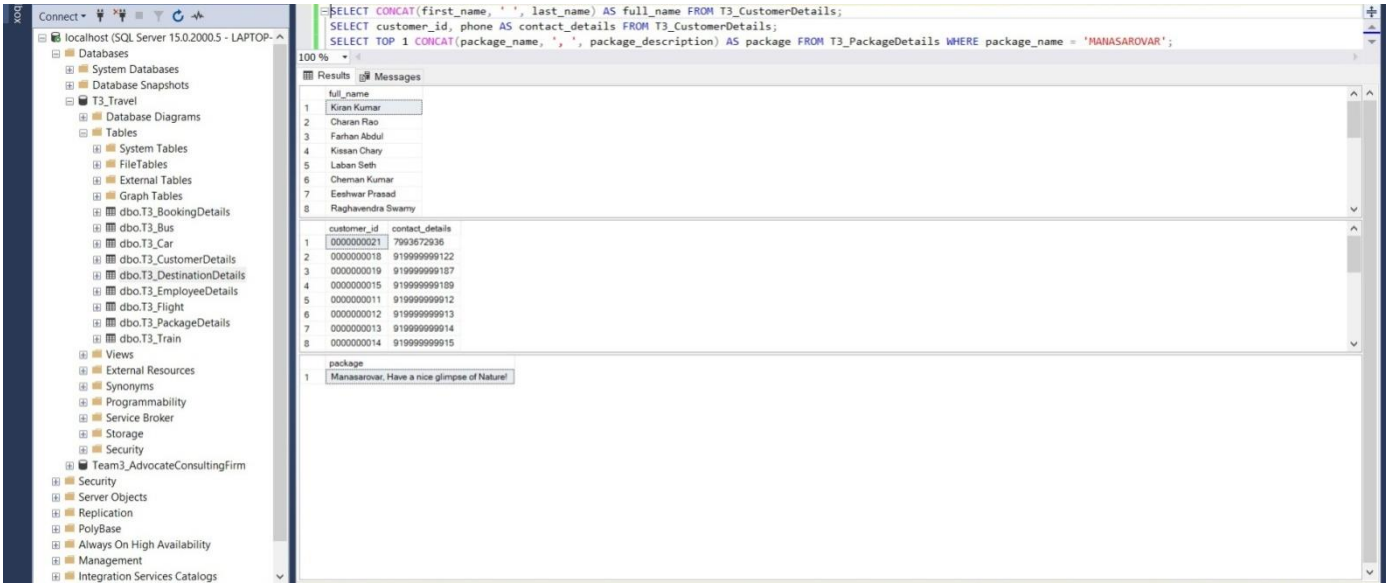


2. Illustrate how we can use Concat and As operators in SQL (minimum 3 queries)

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';
```

OUTPUT:

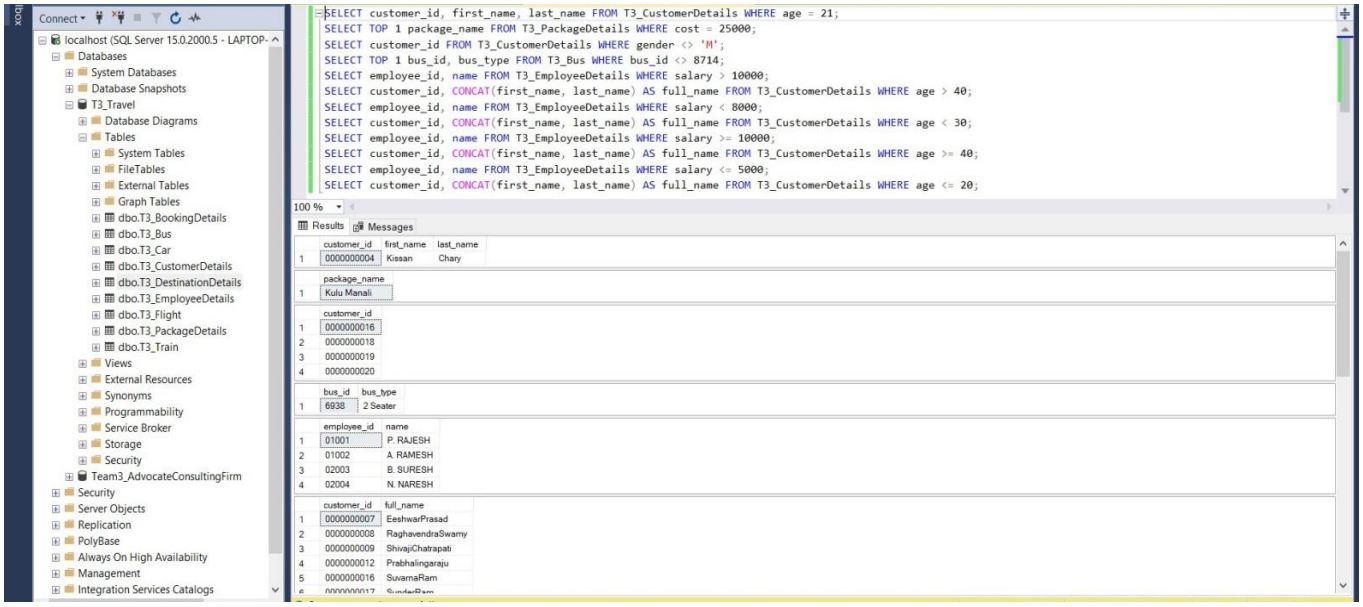


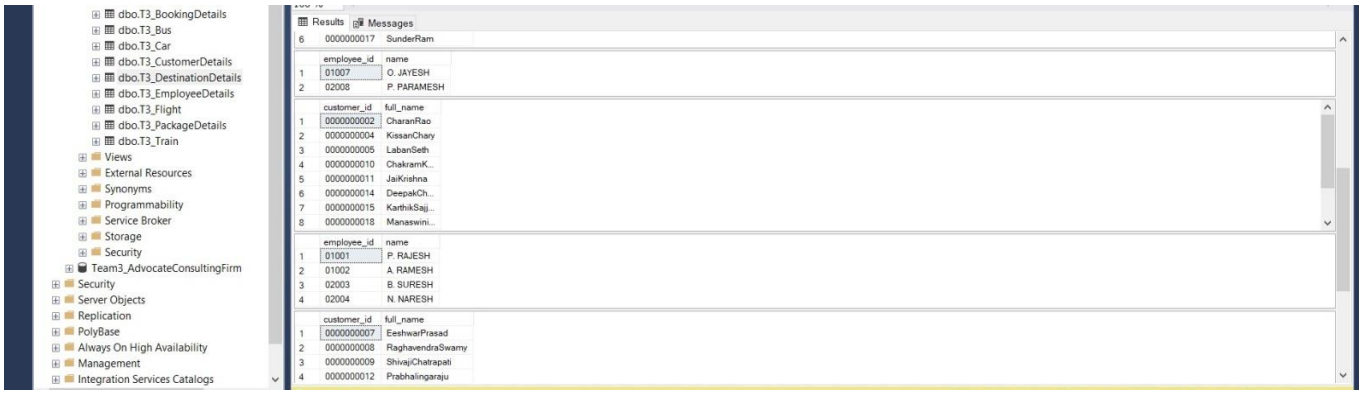
3. Illustrate all the Comparison operator (2 queries for each operator)

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;
```

OUTPUT:


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;
Results
Messages
customer_id first_name last_name
0000000004 Kissan Chary
package_name
Kulu Manali
customer_id
0000000016
0000000018
0000000019
0000000020
bus_id bus_type
6938 2 Seater
employee_id name
01001 P. RAJESH
01002 A. RAMESH
02003 B. SURESH
02004 N. NARESH
customer_id full_name
0000000007 EeshwarPrasad
0000000008 RaghavendraSwamy
0000000009 ShivajiChatrapati
0000000012 Prabhalingaraju
0000000016 SuvarnaRam


0000000017 SunderRam
employee_id name
01007 O. JAYESH
02008 P. PARAMESH
customer_id full_name
0000000002 CharanRao
0000000004 KissanChary
0000000005 LabanSeth
0000000010 ChakramK...
0000000011 JaiKrishna
0000000014 DeepakCh...
0000000015 KarthikSaij...
0000000018 Manaswini...
employee_id name
01001 P. RAJESH
01002 A. RAMESH
02003 B. SURESH
02004 N. NARESH
customer_id full_name
0000000007 EeshwarPrasad
0000000008 RaghavendraSwamy
0000000009 ShivajiChatrapati
0000000012 Prabhalingaraju


0000000016 SuvarnaRam
0000000017 SunderRam
employee_id name
01007 O. JAYESH
02008 P. PARAMESH
customer_id full_name
0000000005 LabanSeth
0000000010 ChakramKumar
0000000014 DeepakChow...
0000000015 KarthikSajjan
0000000018 ManaswiniKa...
0000000019 ShreyaKuppa
0000000020 SrinidhiKuppa

4. Illustrate Logical operators except ANY, ALL and Like (2 queries for each operator)

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;
```

OUTPUT: