DBMS LAB ASSIGNMENT - 4

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<u>ROLL NO:</u> 19BCS053

Q-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.

OUTPUT:

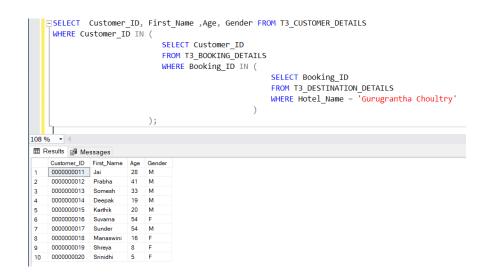
Query-1:

```
■SELECT First_Name, Last_Name, Phone_No FROM T3_CUSTOMER_DETAILS
     WHERE Customer_ID IN (
                              SELECT Customer_ID
                             FROM T3 BOOKING DETAILS
                             WHERE Payment_Amount > 30000
108 % ▼ ◀
Krishna
                      919999999912
    Prabha
                     919999999913
    Somesh
             Thakur
                      919999999914
             Chowdary
                     919999999915
    Karthik
             Sajjan
                      919999999189
                      919999999979
             Ram
                      919999999923
   Manaswini Ksheeraja 919999999122
             Kuppa 91999999964
```

Query-2:

```
SELECT Package_Name, Starting_Point
     FROM T3_PACKAGE_DETAILS
      WHERE EXISTS (
                         SELECT * FROM T3_BUS
                         WHERE T3_PACKAGE_DETAILS. Booking_ID = T3_BUS.Booking_ID
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Starting_Point
    Kulu Manali
                   Hyderabad
     Kulu Manali
                   Hyderabad
     Kulu Manali
     Kulu Manali
                   Hyderabad
     Kulu Manali
                   Hyderabad
     Kulu Manali
     Kulu Manali
                   Hyderabad
     Kulu Manali
                   Hyderabad
     Kulu Manali
                   Hyderabad
     Manasarovar
                   Hyderabad
12
13
     Manasarovar
                   Hyderabad
                   Hyderabad
     Manasarovar
15
     Manasarovar
                   Hyderabad
16
     Manasarovar
                   Hyderabad
17
     Manasarovar
                   Hyderabad
     Manasarovar
                   Hyderabad
19
     Manasarovar
                   Hyderabad
     Manasarovar
                   Hyderabad
20
```

Query-3:



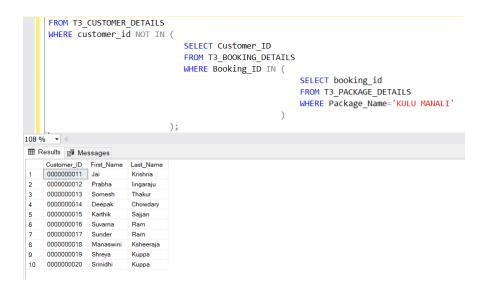
Query-4:

```
FROM T3_PACKAGE_DETAILS
WHERE Booking_ID IN (

SELECT Booking_ID
FROM T3_BUS
WHERE Bus_Type = '3 Seater'
);

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Package_Name Cost
| Kulu Manali 25000.00
| Kulu Manali 25000.00
| Manasarovar 50000.00
```



Q-2:

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

OUTPUT:

Query-1:

```
SELECT CONCAT(Bus_ID, ' ', Bus_Type) AS Bus_Details, Booking_ID, DateAndTime_Of_Arrival, DateAndTime_Of_Departure
         FROM T3_BUS;
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        Bus_Details
        Booking_ID
        DateAndTime_Of_Arrival
        DateAndTime_Of_Departure

        8714 Sleeper
        0100001
        2021-03-04 15:15:00.000
        2021-03-06 15:15:00.000

        8714 Sleeper
        0100002
        2021-03-04 15:15:00.000
        2021-03-06 15:15:00.000

         8714 Sleeper 0100003
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000
        8714 Sleeper 0100004
8714 Sleeper 0100005
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000 2021-03-04 15:15:00.000 2021-03-06 15:15:00.000
         8714 Sleeper 0100006
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000
        8714 Sleeper
8714 Sleeper
                             0100007
0100008
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000 2021-03-04 15:15:00.000 2021-03-06 15:15:00.000
         8714 Sleeper 0100009
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000
        8714 Sleeper
6938 Sleeper
                                                2021-03-04 15:15:00.000 2021-03-06 15:15:00.000 2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
                              0100010
                              0200011
        6938 Sleeper
6938 Sleeper
6938 Sleeper
                             0200012
                                                 2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
                             0200013
0200014
                                                2021-03-04 05:30:00.000 2021-03-08 15:15:00.000 2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
        6938 Sleeper
                             0200015
                                                2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
        6938 Sleeper
6938 Sleeper
                             0200016
0200017
                                                2021-03-04 05:30:00.000 2021-03-08 15:15:00.000 2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
         6938 Sleeper 0200018
                                                2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
        6938 Sleeper 0200019
6938 Sleeper 0200020
                                                2021-03-04 05:30:00.000 2021-03-08 15:15:00.000 2021-03-04 05:30:00.000 2021-03-08 15:15:00.000
```

Query-2:

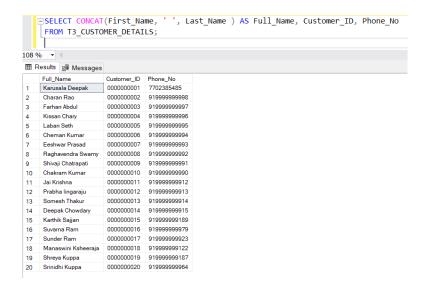
```
SELECT CONCAT(Package_Name, ',', Package_Description ) AS Package
FROM T3_PACKAGE_DETAILS
WHERE Booking_ID = 0100009 OR Booking_ID = 0200013;

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Results Messages

Package
1 Kulu Manali.Chill Outl
2 Manasarovar, Have a nice glimpse of Nature!
```

Query-3:



Q-3:

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

Operators:

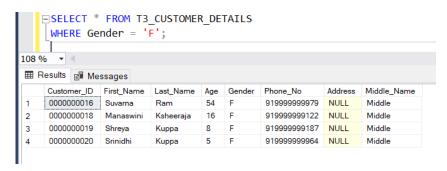
| Operator | Description |
|----------|------------------------|
| = | Equal to. |
| > | Greater than. |
| < | Less than. |
| >= | Greater than equal to. |
| <= | Less than equal to. |
| <> | Not equal to. |

OUTPUT:

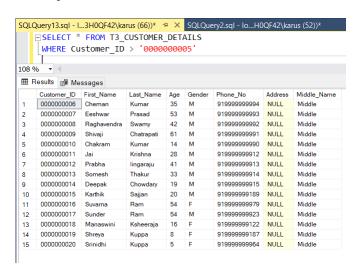
Query-1: ("=")



Query-2: ("=")



Query-1: (">")



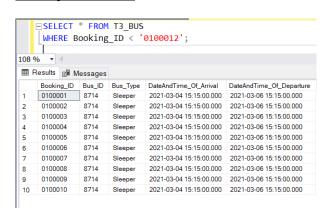
Query-2: (">")



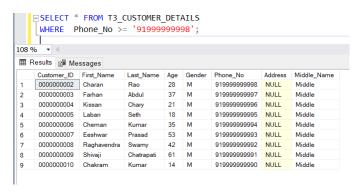
Query-1: ("<")



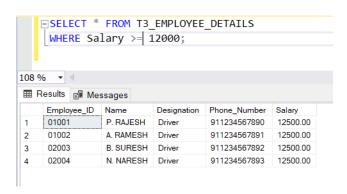
Query-2: ("<")



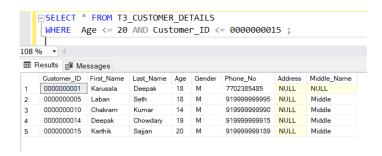
Query-1: (">=")



Query-2: (">=")



Query-1: ("<=")



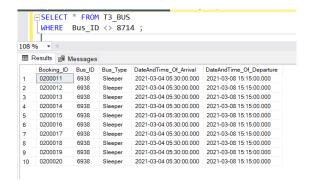
Query-2: ("<=")



Query-1: ("<>" or "!=")



Query-2: ("<>" or "!=")



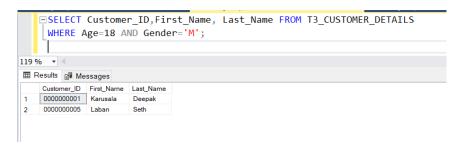
Q-4:

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

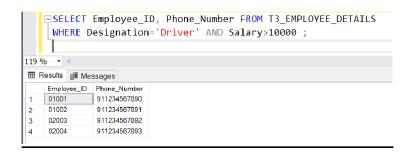
| Logical Operator | Description |
|------------------|---|
| AND | Both the conditions mentioned in the WHERE |
| | clause should be TRUE. |
| OR | At least one of the conditions mentioned in the |
| | WHERE clause should be TRUE. |
| NOT | The mentioned condition should be false in the |
| | WHERE clause. |
| IN | Is used to search for specified value matches any |
| | value in set of multiple values. |
| BETWEEN | Is used to get values within a range. |

OUTPUT:

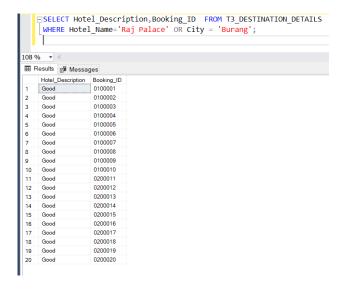
Query-1: ("AND")



Query-2: ("AND")



Query-1: ("OR")



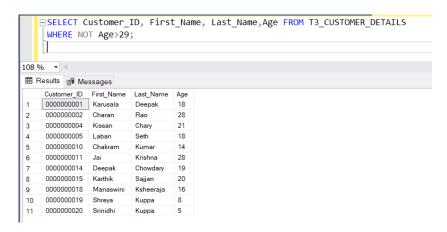
Query-2: ("OR")

Query-1: ("NOT")

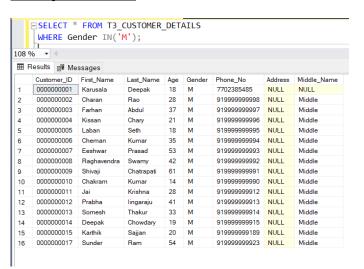
```
■SELECT Employee_ID, Name, Salary, Phone_Number FROM T3_EMPLOYEE_DETAILS
    WHERE NOT Employee_ID='01001';
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    ■ Results    ■ Messages
     Employee_ID Name
            A. RAMESH 12500.00 911234567891
    01002
     01005
                R. PARESH 8000.00 911234567894
                O. JAYESH
                                  911234567897
     01007
                          5000.00
                B. SURESH
                          12500.00 911234567892
     02004
               N. NARESH
                          12500.00 911234567893
               T. MALLESH 8000.00 911234567895
     02006
```

Query-2: ("NOT")



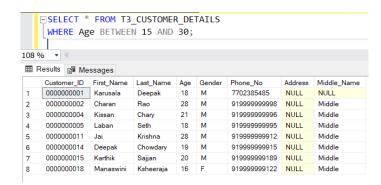
Query-1: ("IN")



Query-2: ("IN")



Query-1: ("BETWEEN")



Query-2: ("BETWEEN")

