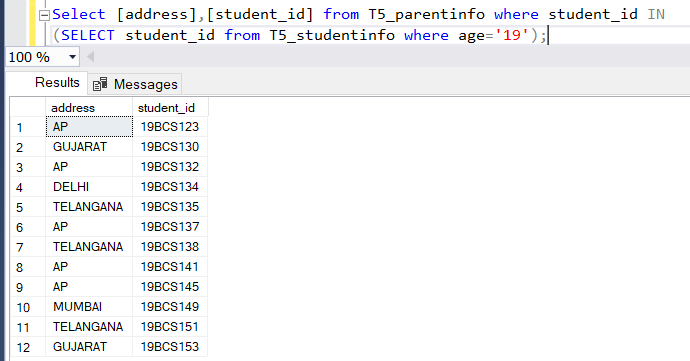
DBMS LAB ASSIGNMENT-4

**E. Harshith kumar yadav**

**19bcs041**

# **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.**

**SQL-QUERY 1)**

****

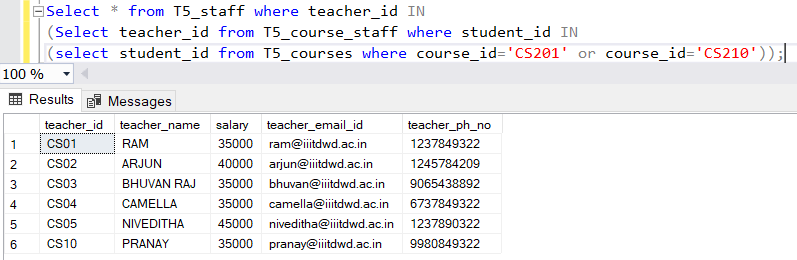
Select [address],[student\_id] from T12\_parentinfo where student\_id IN (SELECT student\_id from T12\_studentinfo where age='19');

**SQL-QUERY 2)**

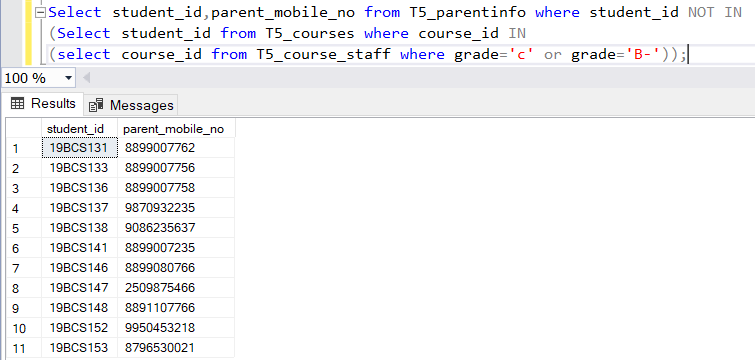
Select \* from T12\_staff where teacher\_id IN

(Select teacher\_id from T12\_course\_staff where student\_id IN

(select student\_id from T12\_courses where course\_id='CS201' or course\_id='CS210'));

****

**SQL-QUERY 3)**

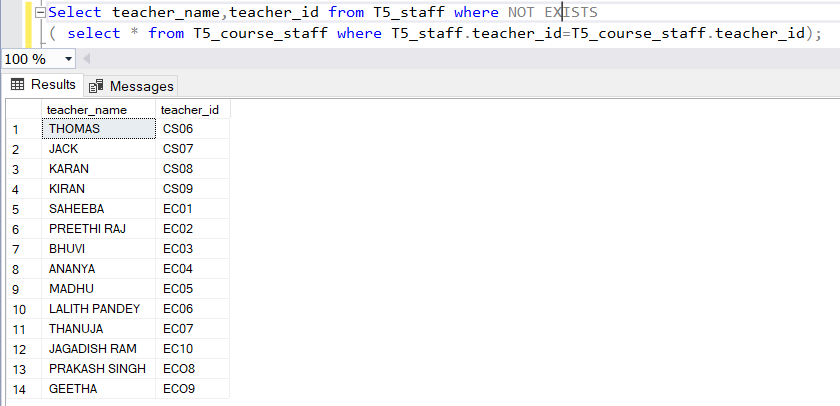
****

Select student\_id,parent\_mobile\_no from T12\_parentinfo where student\_id NOT IN (Select student\_id from T12\_courses where course\_id IN

(select course\_id from T12\_course\_staff where grade='c' or grade='B-'));

**SQL-QUERY 4)**

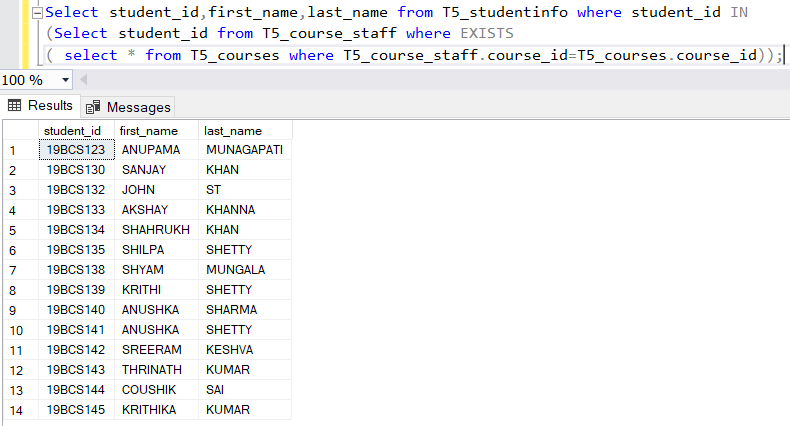
Select teacher\_name,teacher\_id from T12\_staff where NOT EXISTS ( select \* from T12\_course\_staff where T12\_staff.teacher\_id=T12\_course\_staff.teacher\_id);

****

**SQL-QUERY 5)**

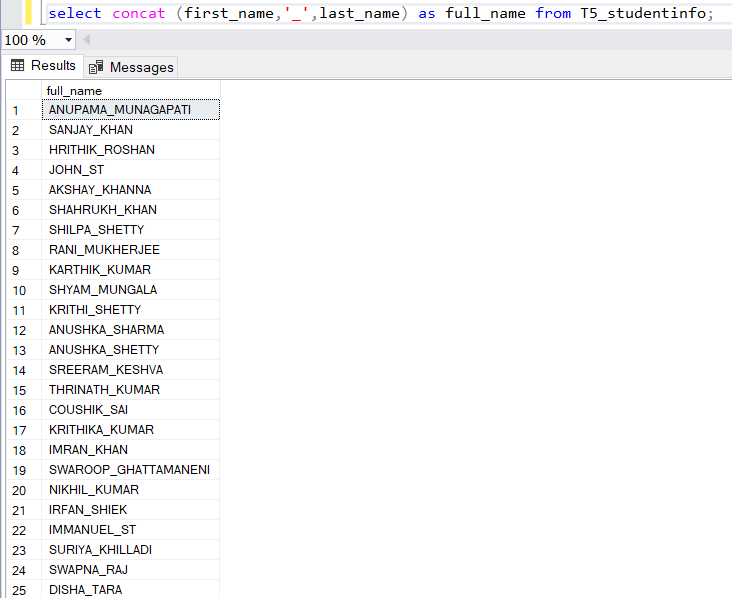
Select student\_id,first\_name,last\_name from T12\_studentinfo where student\_id IN (Select student\_id from T12\_course\_staff where EXISTS

( select \* from T12\_courses where T12\_course\_staff.course\_id=T12\_courses.course\_id));

****

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

**SQL-QUERY 1)**

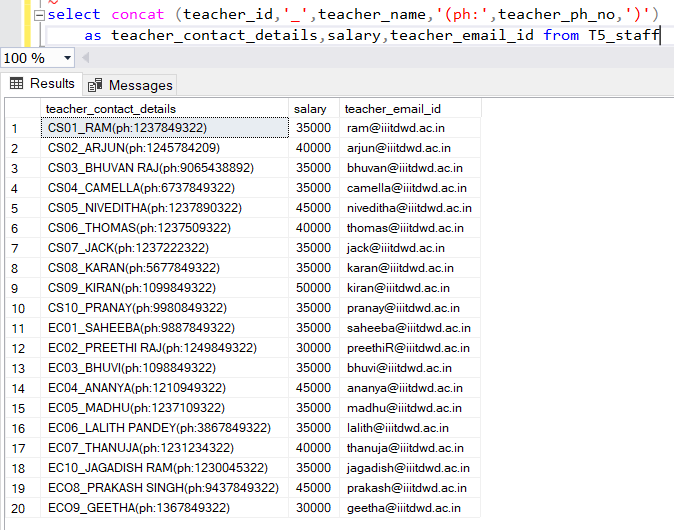
****

select concat (first\_name,'\_',last\_name) as full\_name from T12\_studentinfo;

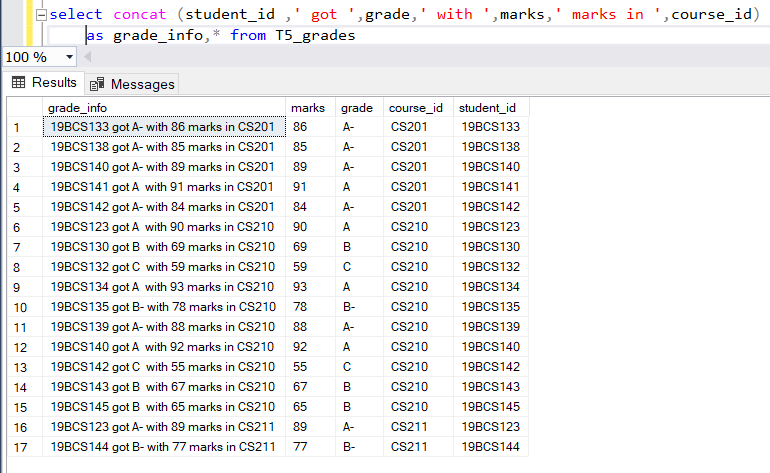
**SQL-QUERY 2)**

select concat (teacher\_id,'\_',teacher\_name,'(ph:',teacher\_ph\_no,')')

as teacher\_contact\_details,salary,teacher\_email\_id from T12\_staff

****

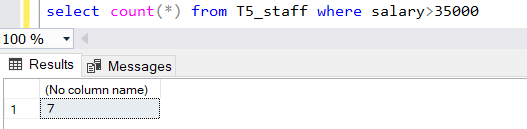
**SQL-QUERY 3)**

****

select concat (student\_id ,' got ',grade,' with ',marks,' marks in ',course\_id) as grade\_info,\* from T12\_grades

1. **Illustrate all the Comparison operator. FOR ‘>’:**

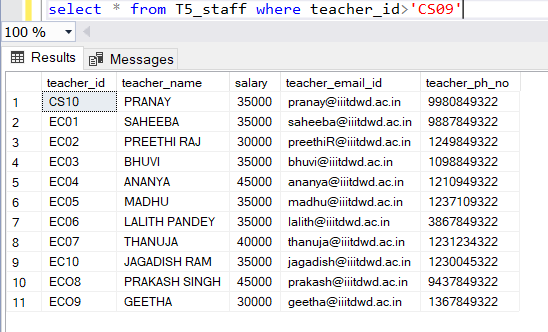
**SQL-QUERY 1)**

****

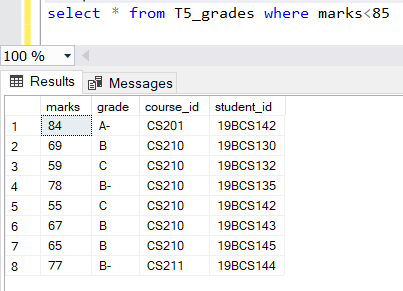
select count(\*) from T12\_staff where salary>35000

**SQL-QUERY 2)**

select \* from T12\_staff where teacher\_id>'CS09'

****

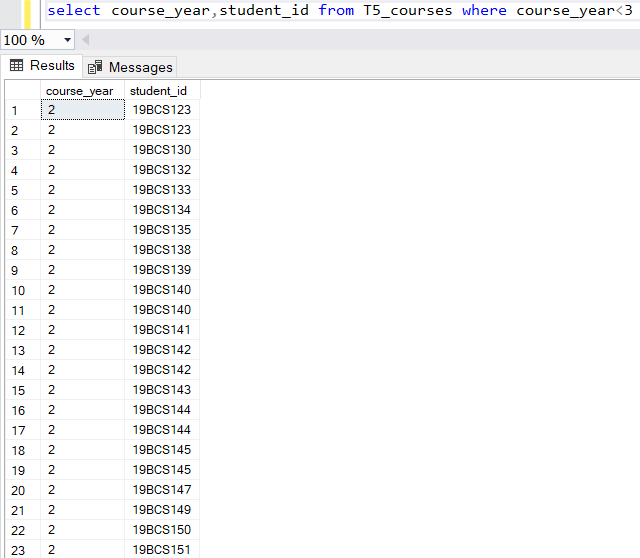
**FOR ‘<’: SQL-QUERY1)**

****

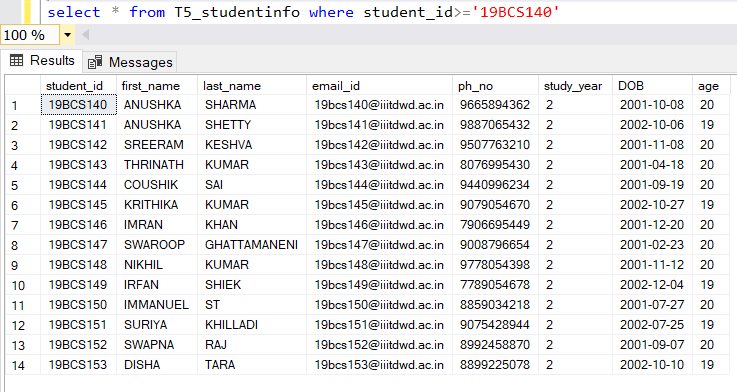
select \* from T12\_grades where marks<85

**SQL-QUERY 2)**

select course\_year,student\_id from T12\_courses where course\_year<3

****

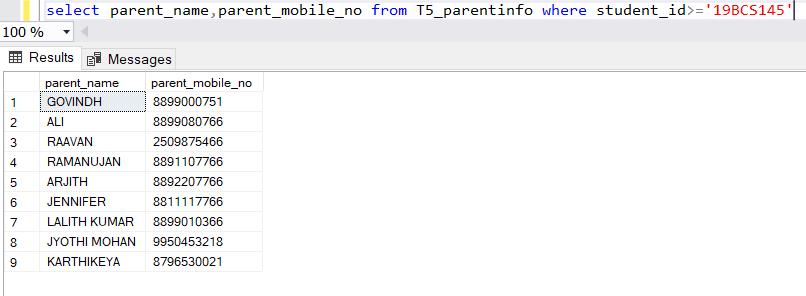
**FOR ‘>=’: SQL-QUERY 1)**

****

*select \* from T12\_studentinfo where student\_id>='19BCS140'*

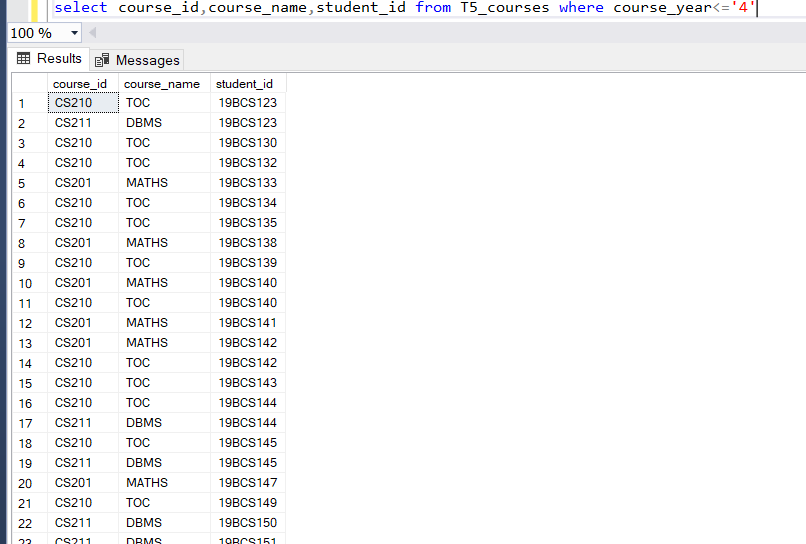
**SQL-QUERY 2)**

select parent\_name,parent\_mobile\_no from T12\_parentinfo where student\_id>='19BCS145'

****

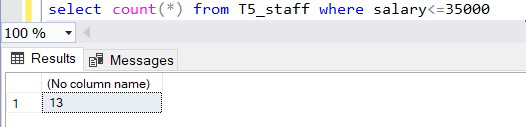
**FOR ‘<=’: SQL-QUERY 1)**

select course\_id,course\_name,student\_id from T12\_courses where course\_year<='4'

****

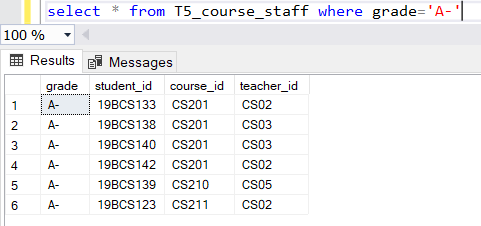
**SQL-QUERY 2)**

select count(\*) from T12\_staff where salary<=35000

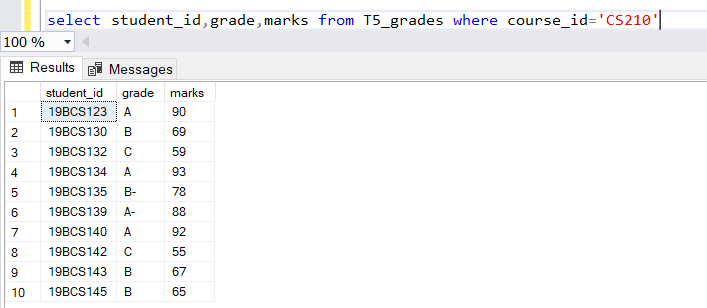
****

**SQL-QUERY 1)**

select \* from T12\_course\_staff where grade='A-'

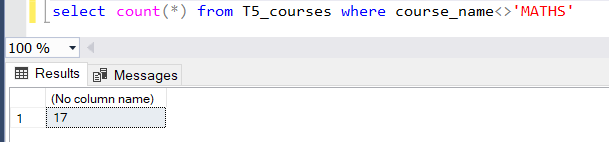
****

**SQL-QUERY 2)**

****

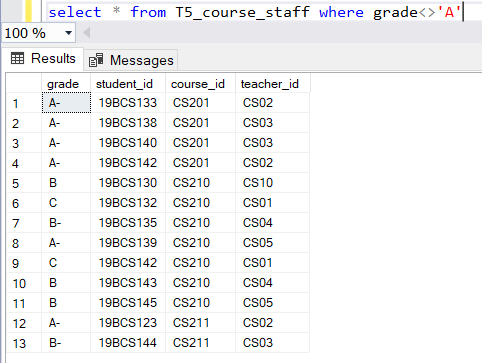
select student\_id,grade,marks from T12\_grades where course\_id='CS210'

**FOR ‘<>’: SQL-QUERY 1)**

****

select count(\*) from T12\_courses where course\_name<>'MATHS'

**SQL-QUERY 2)**

****

select \* from T12\_course\_staff where grade<>'A'

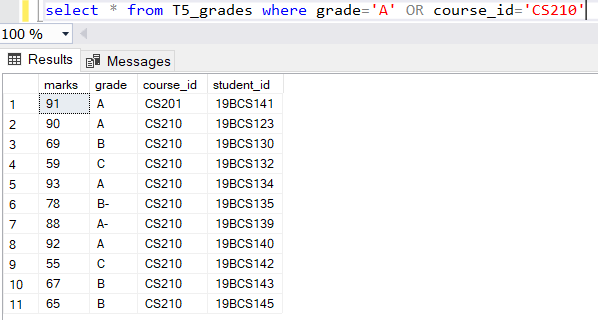
1. **Illustrate Logical operators except ANY, ALL and Like (2 queries for each operator)**

**OR OPERATOR:**

**QUERIES:**

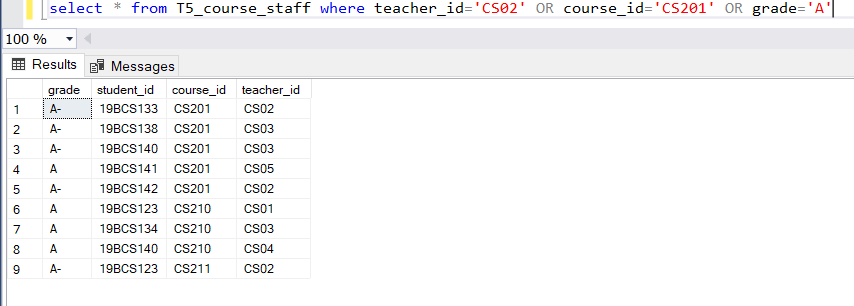
**i)**

select \* from T12\_grades where grade='A' OR course\_id='CS210'

****

**ii)**

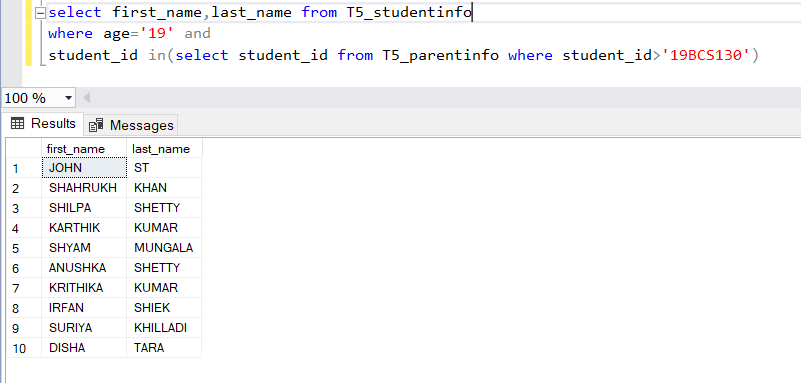
iselect \* from T12\_course\_staff where teacher\_id='CS02' OR course\_id='CS201' OR grade='A'

****

**iii)**

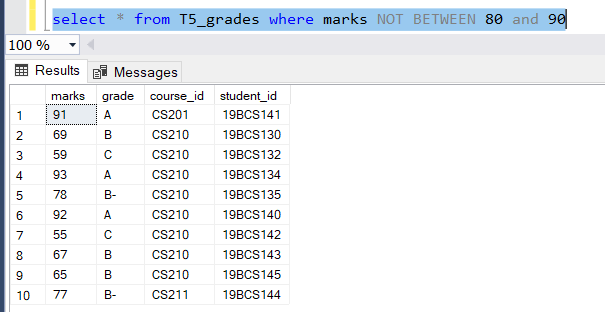
select first\_name,last\_name from T12\_studentinfo where age='19' and

student\_id in(select student\_id from T12\_parentinfo where student\_id>'19BCS130')

****

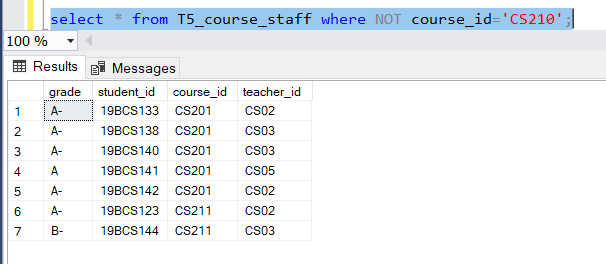
**iv)**

select \* from T12\_grades where marks NOT BETWEEN 80 and 90

****

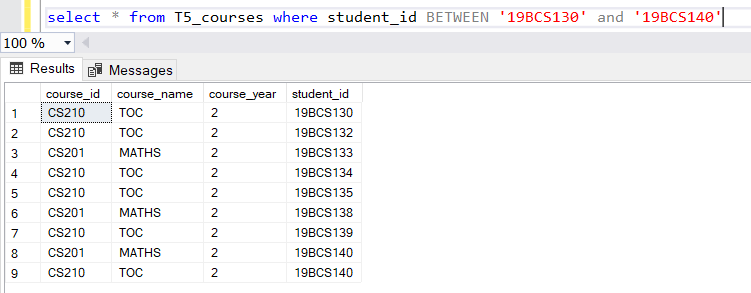
**v)**

select \* from T12\_course\_staff where NOT course\_id='CS210';

****

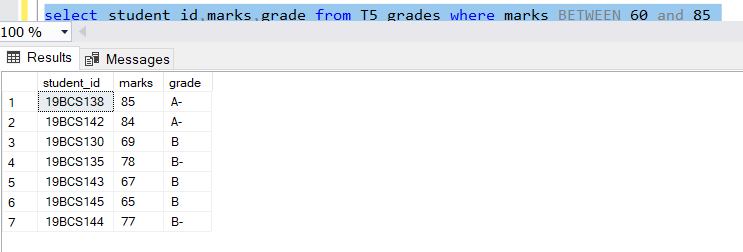
**vi)**

select \* from T12\_courses where student\_id BETWEEN '19BCS130' and '19BCS140'

****

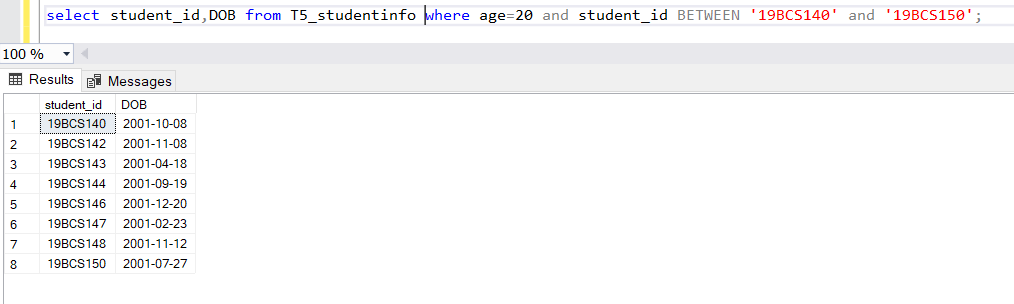
**vii)**

select student\_id,marks,grade from T12\_grades where marks BETWEEN 60 and 85

****

**viii)**

select student\_id,DOB from T12\_studentinfo where age=20 and student\_id BETWEEN '19BCS140' and '19BCS150';

****