

# Assignment

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August/ DBT/ 006  
Database Technologies  
Diploma in Advance Computing  
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## String, Date, Math functions, and Date formats.

USE *student\_phone*, *student\_address*, *faculty\_phone*, *faculty\_address*, *batch\_students*, *course\_batches*, *student\_qualifications*, *faculty\_qualifications*, *course\_modules*, *modules*, *faculty*, *student*, *course*, *student\_cards*, and *student\_order* relation to solve the following queries.

1. Get student <i>namefirst</i> with how many characters are there in their <i>namefirst</i> .
<pre>select namefirst,length(namefirst) from student;</pre>
2. Get student details whose <i>namefirst</i> is having 4 characters only.
<pre>select namefirst,length(namefirst) from student where length(namefirst)=4;</pre>
3. Get the ASCII value of the 3 <sup>rd</sup> character of <i>namefirst</i> column.
<pre>SELECT namefirst, ASCII(RIGHT(LEFT(namefirst, 3), 1)) AS ascii_value FROM student;</pre>
4. Get <i>namefirst</i> and <i>namelast</i> in lowercase.
<pre>select lower(namefirst) as namefirst , lower(namelast) as namelast from student;</pre>
5. Get ( <i>namefirst</i> , <i>namelast</i> , and <i>emailID</i> ) all 7 letter emailID.
<pre>select namefirst, namelast, emailid from student where length(emailid) = 7;</pre>
6. Get ( <i>namefirst</i> , <i>namelast</i> and first 3 letters of <i>namefirst</i> ) for all students.
<pre>select namefirst,namelast,Left(namefirst,3) first_3_letters from student;</pre>
7. Get( <i>namefirst</i> , <i>namelast</i> and last 3 letters of <i>namefirst</i> ) for all student.
<pre>select namefirst,namelast,Right(namefirst,3) first_3_letters from student;</pre>
8. Get all student ( <i>phonenum</i> ) whose <i>phonenum</i> starts with 70.
<pre>select number from student_phone where Left(number,2)='70';</pre>

9. Get student details of first 5 student.
select * from student limit 5;
10. Get student details of last 5 student.
select * from student order by ID desc limit 5;
11. Get student details in ascending order of <i>namefirst</i> .
select * from student order by namefirst;
12. Get student details in descending order of <i>namelast</i> .
select * from student order by namelast desc;
13. Get ( <i>student id, namefirst, namelast, dob, and emailID</i> ) for all students whose length of email id is more than 20 characters.
select * from student where length(emailid)>20;
14. Combine to display student <i>namefirst</i> and <i>namelast</i> .
Select concat(namefirst, ' ', namelast) fullname from student;
15. Write a query to display the following output for all student. If ( <i>namefirst, namelast or emailID</i> ) is null then replace it with a blank space. <b>eg. (Bhoopali Nanadikar and emailID is bhoopali.nanadikar@gmail.com)</b>
16. Get student <i>namefirst</i> and <i>namelast</i> in upper case.
select upper(namefirst) as namefirst , upper(namelast) as namelast from student;
17. Get student <i>firstname</i> and <i>lastname</i> in lower case.
select lower(namefirst) as namefirst, lower(namelast) as namelast from student;
18. Get student <i>firstname</i> and <i>lastname</i> in reverse order.
Select reverse(namefirst) reversed_firstname, reverse(namelast) reversed_lastname from student;
19. Get first 4 letters of student <i>namefirst</i> .

select namefirst,Left(namefirst,4) first_4_letters from student;
20. Get second letter of student <i>namefirst</i> to second last letter of student <i>namefirst</i> .
select substring(namefirst, 2, 1) as second_letter, substring(namelast, length(namelast) - 1, 1) as second_last_letter from student;
21. Get ASCII character of student <i>namefirst</i> .
select ascii(substring(namefirst, 1, 1)) as ascii_value from student;
22. Get first 5 letter of the students' <i>namefirst</i> .
select namefirst,Left(namefirst,5) first_5_letters from student;
23. Print <i>phone number</i> of all student in the given format 7032300034****.
Select Concat(LEFT( number, 5), '****')number from student_phone;
24. Get all student whose DOB is in the month of 'October'.
select * from students where month(birthdate) = 10;
25. Get all student whose DOB is in the month of 'January' or 'December'.
select * from student where month(DOB) = 1 or month(DOB)=12;
26. Get all faculty who were born on 'Sunday'
select * from student where dayname(DOB)='Sunday';
27. Print current date and time.
select now(), curdate(), curtime();
28. Extract month from the current date.
select month(curdate()) as currentmonth;
29. Extract year from the current date.
select year(curdate()) as currentyear;
30. Get all student whose DOB is in the year 1984 in ascending order of <i>namefirst</i> .
select * from student where year(dob) = 1984 order by namefirst asc;

31. Get all student whose DOB is in the 4 quarter of a year.
select *from students where month(dob) in (10, 11, 12);
32. Get all student whose DOB is in the 43 <sup>rd</sup> week of a year.
select * from students where week(dob, 1) = 43;
33. Get all student whose DOB is in between 10 and 19 day.
select * from student where day(dob) between 10 and 19;
34. Generate the random number between 1 to 100
select floor(1 + (rand() * 100)) as random_number;
35. Display the 5 character of namefirst column from student table.
select substring(namefirst, 1, 5) as firstfivecharacters from student;
36. Display all student in ascending order of their DOB, the ordering must be done on weekday name starting form 'Monday', 'Tuesday'.....
select * from student order by (weekday(dob) + 1) % 7;
select * from student order by date_format(dob, '%w');
37. Display all student who's DOB comes in the 4 <sup>th</sup> quarter of the year.
select *from students where month(dob) in (10, 11, 12)
38. Display all student who were born on 'Sunday'.
select * from student where dayname(DOB)='Sunday';
39. Display the DOB in the give format '12 <sup>th</sup> of June 1984'
select date_format(dob, '%d-%m-%y') as formatted_dob from student;
40. Display all course_batches who ends on 'Sunday'.
select * from course_batches where dayofweek(endson) = 1;
41. Display student_phone number in the following format "7032*****" for all students.
Select Concat(LEFT( number, 4), '*****')number from student_phone;

42. Display student_phone number in the following format "7032***8765" for all students.
<pre>select concat( substring(number, 1, 4), '***', substring(number, -4)) as formatted_phone from student_phone;</pre>