

Assignment

Sept23/ DBT/ 006
Database Technologies
Diploma in Advance Computing
September 2023

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> .
<code>select namefirst, length(namefirst) from student;</code>
2. Get student details whose <i>namefirst</i> is having 4 characters only.
<code>select namefirst, length(namefirst) from student where length(namefirst)=4;</code>
3. Get the ASCII value of the 3 rd character of <i>namefirst</i> column.
<code>select namefirst,ascii(substring(namefirst ,3,1)) from student;</code>
4. Get <i>namefirst</i> and <i>namelast</i> in lowercase.
<code>select namefirst,namelast,lower(namefirst),lower(namelast) from student;</code>
5. Get (<i>namefirst</i> , <i>namelast</i> , and <i>emailID</i>) all 7 letter <i>emailID</i> .
<code>select namefirst,namelast,emailid,substring(emailid,1,7) from student;</code>
6. Get (<i>namefirst</i> , <i>namelast</i> and first 3 letters of <i>namefirst</i>) for all students.
<code>select namefirst,namelast,substring(namefirst,1,3) from student;</code>
7. Get (<i>namefirst</i> , <i>namelast</i> and last 3 letters of <i>namefirst</i>) for all student.
<code>select namefirst,namelast,substring(namelast,1,3) from student;</code>
8. Get all student (<i>phonenumber</i>) whose <i>phonenumber</i> starts with 70.
<code>select * from student_phone where number like '70%';</code>
9. Get student details of first 5 student.
<code>select * from student limit 5;</code>
10. Get student details of last 5 student.
<code>select * from student order by id desc limit 5;</code>

11. Get student details in ascending order of <i>namefirst</i> .
select namefirst from student order by namefirst ;
12. Get student details in descending order of <i>namelast</i> .
select namelast 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 namefirst,namelast,emailid,dob,substring(emailid,1,20) from student;
14. Combine to display student <i>namefirst</i> and <i>namelast</i> .
select namefirst,namelast,concat(namefirst,' ',namelast) 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. eg. (Bhoopali Nanadikar and emailID is bhoopali.nanadikar@gmail.com)
select concat(ifnull(namefirst,' '),',',ifnull(namelast,' '),',',and emailID is',',ifnull(emailid,' '),',') from student order by id;
16. Get student <i>namefirst</i> and <i>namelast</i> in upper case.
select namefirst,namelast,upper(namefirst),upper(namelast) from student;
17. Get student <i>firstname</i> and <i>lastname</i> in lower case.
select namefirst,namelast,lower(namefirst),lower(namelast) from student;
18. Get student <i>firstname</i> and <i>lastname</i> in reverse order.
select namefirst,namelast,reverse(namefirst),reverse(namelast) from student;
19. Get first 4 letters of student <i>namefirst</i> .
select namefirst,substring(namefirst,1,4) from student;
20. Get second letter of student <i>namefirst</i> to second last letter of student <i>namefirst</i> .
select namefirst,substring(namefirst,2,length(namefirst)-2) r1 from student;
21. Get ASCII character of student <i>namefirst</i> .
select ascii(namefirst) from student;
22. Get first 5 letter of the students' <i>namefirst</i> .
select left(namefirst,5) from student;
23. Print <i>phone number</i> of all student in the given format 7032300034****.

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select concat(number,'*****') from student_phone;
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24. Get all student whose DOB is in the month of 'October'.

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select * from student where month(dob)=10;
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25. Get all student whose DOB is in the month of 'January' or 'December'.

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select * from student where month(dob) in (1,12);
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26. Get all faculty who were born on 'Sunday'

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select * from faculty where dayofweek('sunday');
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27. Print current date and time.

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select now();
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28. Extract month from the current date.

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select now() ,extract(month from now()) r1;
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29. Extract year from the current date.

```
select now() ,extract(year from now()) r1;
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30. Get all student whose DOB is in the year 1984 in ascending order of *namefirst*.

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select * from student where year(dob)=1984 order by namefirst asc;
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31. Get all student whose DOB is in the 4 quarter of a year.

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select * from student where quarter(dob)=4;
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32. Get all student whose DOB is in the 43rd week of a year.

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select * from student where weekofyear(dob)=43;
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33. Get all student whose DOB is in between 10 and 19 day.

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select * from student where dayofyear(dob) between 10 and 19;
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34. Generate the random number between 1 to 100

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select floor(rand()*100 +1);
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35. Display the 5 character of namefirst column from student table.

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select namefirst, left(namefirst,5) from student;
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36. Display all student in ascending order of their DOB, the ordering must be done on weekday name starting from 'Monday', 'Tuesday'.....

select *,dayname(dob) r1 from student order by dayname(dob)='monday' desc;
37. Display all student who's DOB comes in the 4 th quarter of the year.
select * from student where quarter(dob)=4;
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 th of June 1984'
select *,concat(day(dob),"th",' ','of'," ",monthname(dob)," ",year(dob)) r1 from student;
40. Display all course_batches who ends on 'Sunday'.
select *,dayname(endson)r1 from course_batches where dayname(endson)='sunday';
41. Display student_phone number in the following format "7032*****" for all students.
select *, concat(left(number,4),"*****") r1 from student_phone;
42. Display student_phone number in the following format "7032****8765" for all students.
select *, concat(left(number,4),"****",right(number,4)) r1 from student_phone;