

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> .
select namefirst, length(namefirst) from student;
2. Get student details whose <i>namefirst</i> is having 4 characters only.
select * from student where length(namefirst)>4;
3. Get the ASCII value of the 3 rd character of <i>namefirst</i> column.
select namefirst,ascii(substring(namefirst,3,1)) from student;
4. Get <i>namefirst</i> and <i>namelast</i> in lowercase.
select lower(namefirst) namefirst, lower(namelast) namelast from student;
5. Get (<i>namefirst</i> , <i>namelast</i> , and <i>emailID</i>) all 20 letter <i>emailID</i> .
select namefirst, namelast, emailid from student where length(emailid) = 20;
6. Get (<i>namefirst</i> , <i>namelast</i> and <i>first 3 letters of namefirst</i>) for all students.
select namefirst, namelast, left(namefirst,3) name from student;
7. Get (<i>namefirst</i> , <i>namelast</i> and <i>last 3 letters of namefirst</i>) for all student.
select namefirst, namelast, right(namefirst,3) name from student;
8. Get all student (<i>phonenumber</i>) whose <i>phonenumber</i> starts with 70.
select id, number from student_phone where number like '70%';
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 namefirst, namelast, dob, emailid from student where length(emailid) > 20;
14. Combine to display student <i>namefirst</i> and <i>namelast</i> .
select concat(namefirst, ' ', namelast) 'full name' 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(namefirst, ' ', namelast, ' and ', ' emailid is ',emailid) details from student;
16. Get student <i>namefirst</i> and <i>namelast</i> in upper case.
select upper(namefirst) namefirst, upper(namelast) namelast from student;
17. Get student <i>firstname</i> and <i>lastname</i> in lower case.
select lower(namefirst) namefirst, lower(namelast) namelast from student;
18. Get student <i>firstname</i> and <i>lastname</i> in reverse order.
select reverse(namefirst) namefirst, reverse(namelast) namelast from student;
19. Get first 4 letters of student <i>namefirst</i> .
select left(namefirst,4) from student;
20. Get second letter of student <i>namefirst</i> to second last letter of student <i>namefirst</i> .
select concat(substr(namefirst,2,1),' ',substr(namefirst,length(namefirst)-1,1)) result from student;
21. Get ASCII character of student <i>namefirst</i> .
select namefirst,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****.

select number , rpad(number,length(number)+4, '*') from student_phone;
24. Get all student whose DOB is in the month of 'October'.
select * from student where extract(month from dob) = 10;
25. Get all student whose DOB is in the month of 'January' or 'December'.
select * from student where extract(month from dob) in (01,12);
26. Get all faculty who were born on 'Sunday'
select * from faculty where dayname(dob)=1;
27. Print current date and time.
select now();
28. Extract month from the current date.
select extract(month from curdate());
29. Extract year from the current date.
select extract(year from curdate());
30. Get all student whose DOB is in the year 1984 in ascending order of <i>namefirst</i> .
select * from student where extract(year from dob)=1984 order by namefirst ;
31. Get all student whose DOB is in the 4 quarter of a year.
select * from student where extract(month from curdate()) between 10 and 12 order by namefirst ;
32. Get all student whose DOB is in the 43 rd week of a year.
select * from student where extract(week from dob)=43;
33. Get all student whose DOB is in between 10 and 19 day.
select * from student where extract(day from dob) between 10 and 19 ;
34. Generate the random number between 1 to 100
select floor(rand()*100);
35. Display the 5 character of namefirst column from student table.
select left(namefirst,5) 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 dob,dayname(dob);
37. Display all student who's DOB comes in the 4 th quarter of the year.
select * from student where extract(month from curdate()) between 10 and 12 order by namefirst ;
38. Display all student who were born on 'Sunday'.
select * from student where dayname(dob)=1;
39. Display the DOB in the give format ' 12th of June 1984 '
SELECT concat(extract(day from dob),'th of ',monthname(dob),' ',extract(year from dob)) from student;
40. Display all course_batches who ends on 'Sunday'.
SELECT * from course_batches where dayname(endson) =1;
41. Display student_phone number in the following format "7032*****" for all students.
SELECT number, rpad(left(number,4),10,'*') from student_phone;
42. Display student_phone number in the following format "7032****8765" for all students.
SELECT number, rpad(rpad(left(number,4),8,'*'),12,right(number,4)) from student_phone;