Assignment

August/ DBT/ 006

Database Technologies

Diploma in Advance Computing

August 2024

**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.

|  |
| --- |
| * Get student *namefirst* with how many characters are there in their *namefirst*. |
| select namefirst, length(namefirst) as name\_length from student; |
|  |
| * Get student details whose *namefirst*is having 4 characters only. |
| select namefirst, ascii(substring(namefirst, 3, 1)) as ascii\_value from student; |
|  |
| * Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, ascii(substring(namefirst, 3, 1)) as ascii\_value from student; |
|  |
| * Get *namefirst* and *namelast* in lowercase. |
| select lower(namefirst), lower(namelast) from student; |
|  |
| * Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, emailid from student where length(emailid) = 7; |
|  |
| * Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst, namelast, substring(namefirst, 1, 3) as first\_3\_letters from student; |
|  |
| * Get*(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast, substring(namefirst, -3) as last\_3\_letters from student; |
|  |
| * Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select \* from student\_phone where phone\_number like '70%'; |
|  |
| * Get student details of first 5 student. |
| select \* from student limit 5; |
|  |
| * Get student details of last 5 student. |
| select \* from student order by student\_id desc limit 5; |
|  |
| * Get student details in ascending order of *namefirst*. |
| select \* from student order by namefirst asc; |
|  |
| * Get student details in descending order of *namelast*. |
| select \* from student order by namelast desc; |
|  |
| * Get *(student id, namefirst, namelast, dob, and emailID)* for all students whose length of email id is more than 20 characters. |
| select student\_id, namefirst, namelast, dob, emailid from student where length(emailid) > 20; |
|  |
| * Combine to display student *namefirst* and *namelast*. |
| select concat(namefirst, ' ', namelast) as full\_name from student; |
|  |
| * Write a query to display the following output for all student. If (*namefirst*, *namelast or emailID)* is null then replace it with a blank space.   **eg. (Bhoopali Nanadikar and emailIDis bhoopali.nanadikar@gmail.com)** |
| select coalesce(namefirst, ' ') as namefirst, coalesce(namelast, ' ') as namelast, coalesce(emailid, ' ') as emailid from student; |
|  |
| * Get student *namefirst* and *namelast* in upper case. |
| select upper(namefirst), upper(namelast) from student; |
|  |
| * Get student firstname and *lastname* in lower case. |
| select lower(namefirst), lower(namelast) from student; |
|  |
| * Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst), reverse(namelast) from student; |
|  |
| * Get first 4 letters of student *namefirst*. |
| select substring(namefirst, 1, 4) as first\_4\_letters from student; |
|  |
| * Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substring(namefirst, 2, length(namefirst)-2) from student; |
|  |
| * Get ASCII character of student *namefirst*. |
| select ascii(namefirst) from student; |
|  |
| * Get first 5 letter of the students’ *namefirst*. |
| select substring(namefirst, 1, 5) from student; |
|  |
| * Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select concat(substring(phone\_number, 1, 10), '\*\*\*\*\*') as formatted\_phone from student\_phone; |
|  |
| * Get all student whose DOB is in the month of ‘October’. |
| select \* from student where month(dob) = 10; |
|  |
| * Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \* from student where month(dob) in (1, 12); |
|  |
| * Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where dayname(dob) = 'sunday'; |
|  |
| * Print current date and time. |
| select now(); |
|  |
| * Extract month from the current date. |
| select month(curdate()); |
|  |
| * Extract year from the current date. |
| select year(curdate()); |
|  |
| * Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select \* from student where year(dob) = 1984 order by namefirst asc; |
|  |
| * Get all student whose DOB is in the 4 quarter of a year. |
| select \* from student where quarter(dob) = 4; |
|  |
| * Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where week(dob) = 43; |
|  |
| * Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where day(dob) between 10 and 19; |
|  |
| * Generate the random number between 1 to 100 |
| select floor(1 + (rand() \* 100)) as random\_number; |
|  |
| * Display the 5 character of namefirst column from student table. |
| select substring(namefirst, 5, 1) as fifth\_char from student; |
|  |
| * 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 field(dayname(dob), 'monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday', 'sunday'); |
|  |
| * Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* from student where quarter(dob) = 4; |
|  |
| * Display all student who were born on ‘Sunday’. |
| select \* from student where dayname(dob) = 'sunday'; |
|  |
| * Display the DOB in the give format **‘12th of June 1984’** |
| select date\_format(dob, '%d of %m %y') as formatted\_dob from student; |
|  |
| * Display all course\_batches who ends on ‘Sunday’. |
| select \* from course\_batches where dayname(end\_date) = 'sunday'; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select concat(substring(phone\_number, 1, 4), '\*\*\*\*\*\*') as formatted\_phone from student\_phone; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select concat(substring(phone\_number, 1, 4), '\*\*\*\*', substring(phone\_number, 9)) as formatted\_phone from student\_phone; |
|  |