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.

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| 1. Get student *namefirst* with how many characters are there in their *namefirst*. |
| select namefirst, LENGTH(namefirst) Count from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| select namefirst from student where LENGTH(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, ASCII(substr(namefirst, 3, 3)) Ascii from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select LOWER(namefirst) 'First Name', LCASE(namelast) 'Last Name' from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) of students whose emailID contains 20 letters. |
| select namefirst, namelast, emailID from student where length(emailID)=20; |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| Select namefirst, namelast, LEFT(namefirst, 3) from student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| Select namefirst, namelast, RIGHT(namefirst, 3) from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select studentID, number from student\_phone where LEFT(number, 2)=70; |
|  |
| 1. Get student details of first 5 student. |
| select \* from student limit 5; |
|  |
| 1. Get student details of last 5 student. |
| select \* from student limit 25, 5; |
|  |
| 1. Get student details in ascending order of *namefirst*. |
| select \* from student order by namefirst; |
|  |
| 1. Get student details in descending order of *namelast*. |
| select \* from student order by namelast desc; |
|  |
| 1. Get *(student id, namefirst, namelast, dob, and emailID)* for all students whose length of email id is more than 20 characters. |
| select ID, namefirst, namelast, dob, emailID from student where length(emailID)>20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select namefirst, namelast, CONCAT(namefirst," ", namelast) Fullname from student; |
|  |
| 1. 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 concat(namefirst, ".", namelast, "@gmail.com") EmailID from student; (wrong)  select concat(namefirst, " ", namelast, " and emailID is ", emailID) from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select UPPER(namefirst) 'First Name' , UPPER(namelast) 'Last Name' from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select LCASE(namefirst) 'First Name' , LCASE(namelast) 'Last Name' from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst) 'First Name', reverse(namelast) 'Last Name' from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select LEFT(namefirst, 4) Firstname from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substr(namefirst,2,length(namefirst)-2) from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ASCII(namefirst) ASCII from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select LEFT(namefirst, 5) Firstname from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select concat(number,"\*\*\*\*\*") from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \* from student where month(dob)=10; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \* from student where month(dob)=1 or month(dob)=12; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where weekday(dob)='sunday'; |
|  |
| 1. Print current date and time. |
| select now(); |
|  |
| 1. Extract month from the current date. |
| select month(curdate()); |
|  |
| 1. Extract year from the current date. |
| select year(curdate()); |
|  |
| 1. 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; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| select \* from student where month(dob) in (10, 11, 12);  select \* from student where month(dob) between 10 and 12;; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where week(dob)=43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where dayofmonth(dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| Select round(rand()\*100); |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select left(namefirst, 5) Name from student; |
|  |
| 1. 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) between 0 and 6; |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* from student where month(dob) in (10, 11, 12);  select \* from student where month(dob) between 10 and 12;; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| select \* from student where dayofweek(dob) = 1; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select date\_format(dob, '%D of %M %Y') from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select \* from course\_batches where weekday(endson)=6;  select \* from course\_batches where dayofweek(endson)=1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select studentID, rpad(LEFT(number,4), 10, "\*") "Contact Number" from student\_phone;  select studentID, number, concat(rpad(number,4,'\*'),'\*\*\*\*\*\*') “Contact Number” from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select studentID, concat(rpad(LEFT(number,4), 5, "\*"), lpad(RIGHT(number,4), 5, "\*")) "Contact Number" from student\_phone; |
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