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) Length from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| select namefirst, length(namefirst) Length from student where length(namefirst) = 4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, substr(namefirst, 3, 1) Third\_Char, ascii(substr(namefirst, 3, 1)) ASCII from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select lower(namefirst)as name, lower(namelast) surname from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, substring(emailid,1,7) from student; |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst, namelast, left(namefirst, 3) newName from student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast, right(namefirst, 3) newName from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select id, studentid, number from student\_phone where number like ('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 order by id desc limit 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 \* from student where length(emailid) > 20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select namefirst, namelast, concat(namefirst, ' ', namelast)as Name 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 namefirst, namelast, concat(namefirst, ' ', namelast, 'and emailID is ', emailid)as answer from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select upper(namefirst), upper(namelast) from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lower(namefirst), lower(namelast) from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst), reverse(namelast) from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select left(namefirst, 4)R1 from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, namelast, substr(namefirst, 2, length(namefirst)-2) newName from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select namefirst, namelast, ascii(namefirst) as ascii from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select left(namefirst, 5)R1 from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| Select rpad(number,15,'\*') n from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \* from student where dob like '%-10-%' ; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select dob, monthname(dob) Month from student where monthname(dob)='January' or monthname(dob)='December'; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select dob, dayname(dob) Week from faculty where dayname(dob) = 'Sunday'; |
|  |
| 1. Print current date and time. |
| select now(); |
|  |
| 1. Extract month from the current date. |
| select month(now()) Month; |
|  |
| 1. Extract year from the current date. |
| select year(now()) Year; |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select \* from student where dob like '1984-%-%' order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| select \*, quarter(dob) Quarter from student where quarter(dob) = 4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select \*, week(dob) Week from student where week(dob) = 43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| Select \* from student where date\_format(DOB,'%d') between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| select round(rand()\*100) Random; |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select namefirst, namelast, left(namefirst, 5) as R1 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 dob, dayname(dob) day from student order by weekday(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \*, quarter(dob) Quarter from student where quarter(dob) = 4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| select \*, dayname(dob) Day from student where dayname(dob) = 'Sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select id, namefirst, namelast, concat(day(dob), 'th of ', monthname(dob), ' ', year(dob)) from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select \*, dayname(endson) day from course\_batches where dayname(endson) = 'Sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select rpad(substring(number,1,4),10,'\*') from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select concat(rpad(substring(number,1,4),8,'\*'),substr(number,7,4)) from student\_phone; |
|  |