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.

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| 1. Get student *namefirst* with how many characters are there in their *namefirst*. |
| select namefirst,length(namefirst) from student; |
|  |
| 1. Get student details whose *namefirst*is having 4 characters only. |
| select namefirst,length(namefirst) from student where length(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| SELECT namefirst, ASCII(RIGHT(LEFT(namefirst, 3), 1)) AS ascii\_value FROM student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select lower(namefirst) as namefirst , lower(namelast) as namelast from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, emailid from student where length(emailid) = 7; |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst,namelast,Left(namefirst,3) first\_3\_letters from student; |
|  |
| 1. Get*(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst,namelast,Right(namefirst,3) first\_3\_letters from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select 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 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 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)** |
|  |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select upper(namefirst) as namefirst , upper(namelast) as namelast from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lower(namefirst) as namefirst, lower(namelast) as namelast from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| Select reverse(namefirst) reversed\_firstname, reverse(namelast) reversed\_lastname from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select namefirst,Left(namefirst,4) first\_4\_letters from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substring(namefirst, 2, 1) as second\_letter, substring(namelast, length(namelast) - 1, 1) as second\_last\_letter from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ascii(substring(namefirst, 1, 1)) as ascii\_value from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select namefirst,Left(namefirst,5) first\_5\_letters from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| Select Concat(LEFT( number, 5), '\*\*\*\*\*')number from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \* from students where month(birthdate) = 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 student where dayname(DOB)='Sunday'; |
|  |
| 1. Print current date and time. |
| select now(), curdate(), curtime(); |
|  |
| 1. Extract month from the current date. |
| select month(curdate()) as currentmonth; |
|  |
| 1. Extract year from the current date. |
| select year(curdate()) as currentyear; |
|  |
| 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 students where month(dob) in (10, 11, 12); |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select \* from students where week(dob, 1) = 43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where day(dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| select floor(1 + (rand() \* 100)) as random\_number; |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select substring(namefirst, 1, 5) as firstfivecharacters 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) + 1) % 7;  select \* from student order by date\_format(dob, '%w'); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \*from students where month(dob) in (10, 11, 12) |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| select \* from student where dayname(DOB)='Sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select date\_format(dob, '%d-%m-%y') as formatted\_dob from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select \* from course\_batches where dayofweek(endson) = 1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| Select Concat(LEFT( number, 4), '\*\*\*\*\*\*\*\*')number from student\_phone; |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select concat( substring(number, 1, 4), '\*\*\*\*', substring(number, -4)) as formatted\_phone from student\_phone; |
|  |