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 concat(namefirst," ",namelast) as 'Name', char\_length(namefirst) as 'Length' from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| select concat(namefirst," ",namelast) as 'Name', dob, emailid from student where char\_length(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| select concat(namefirst," ",namelast) as 'Name', ascii(reverse(left(namefirst,3))) as 'ASCII of 3rd character' from student;  select concat(namefirst," ",namelast) as 'Name', ascii(substring(namefirst,3,1)) as 'ASCII of 3rd character' from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select concat(lcase(namefirst)," ",lcase(namelast)) as "Name in LowerCase" from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, emailID from student where char\_length(emailid)=7; |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst, namelast, left(namefirst,3) as “First 3 letters” from student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast, right(namefirst,3) as "Last 3 letters" from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select distinct StudentID, number as "PhoneNumber" from student\_phone where number like "70%" order by studentid; |
|  |
| 1. Get student details of first 5 student. |
| select id, concat(namefirst," ",namelast) as 'Name', dob, emailid from student limit 5; |
|  |
| 1. Get student details of last 5 student. |
| select id, concat(namefirst," ",namelast) as 'Name', dob, emailid from student order by id desc limit 5; |
|  |
| 1. Get student details in ascending order of *namefirst*. |
| select id, concat(namefirst," ",namelast) as 'Name', dob, emailid from student order by namefirst; |
|  |
| 1. Get student details in descending order of *namelast*. |
| select id, concat(namefirst," ",namelast) as 'Name', dob, emailid from student order by namelast; |
|  |
| 1. Get *(student id, namefirst, namelast, dob, and emailID)* for all students whose length of email id is more than 20 characters. |
| select namefirst, namelast, dob, emailID from student where char\_length(emailid)>20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select 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 concat(namefirst," ",namelast, " and emailid is ",emailid) as 'Details' from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select concat(ucase(namefirst)," ",ucase(namelast)) as "Name in UpperCase" from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select concat(lcase(namefirst)," ",lcase(namelast)) as "Name in LowerCase" from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst) as 'Namefirst', reverse(namelast) as 'Namelast' from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select namefirst, left(namefirst,4) as "First 4 letters" from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substring(namefirst, 2, length(namefirst)-2) as "2nd to 2nd last" from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ascii(namefirst) as ‘Ascii’ from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select left(namefirst,5) as ‘First 5 letters’ from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select distinct studentid, rpad(number,15,'\*') from student\_phone order by studentid; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select id, namefirst, namelast, emailid, dob, monthname(dob) as "Month" from student where monthname(dob)='october'; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select id, namefirst, namelast, emailid, dob, monthname(dob) as "Month" from student where monthname(dob) in('january','december'); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select id, namefirst, namelast, emailid, dob, dayname(dob) as "Day" from faculty where dayname(dob)='sunday'; |
|  |
| 1. Print current date and time. |
| select now() as "Current Date and Time"; |
|  |
| 1. Extract month from the current date. |
| select monthname(now()) as Month; |
|  |
| 1. Extract year from the current date. |
| select Year(now()) as Year; |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select id, namefirst, namelast, DOB, year(dob) as "Year" from student where year(dob)=1984 order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| select id, namefirst, namelast, DOB from student where quarter(dob)=4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select id, namefirst, namelast, DOB, quarter(Dob) as Quarter from student where quarter(dob)=4; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select id, namefirst, namelast, DOB, dayofmonth(Dob) as Day 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) as '5 charcters' 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 id, namefirst, namelast, dob, dayname(dob) from student order by weekday(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select id, namefirst, namelast, DOB from student where quarter(dob)=4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| select namefirst, namelast, dayofweek(dob) as Day from student where dayofweek(dob)='sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select id, namefirst, namelast, date\_format((dob),'%D of %M %Y') as DOB from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select id, name, endson, dayname(endson)as Day from course\_batches where dayname(endson) = 'Sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select distinct studentid, rpad(left(number, 4), 10, '\*') from student\_phone order by studentid; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select distinct studentid,concat(rpad(left(number, 4), 8, '\*'), right(number, 4) ) from student\_phone order by studentid; |
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