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) from student ; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| Select \* from student where length(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| Select ascii(substr(namefirst,3,1)) from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| Select lower(namefirst), lower(namelast) 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, substr(namefirst,1,3) from student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| Select namefirst, namelast, reverse(substr(reverse(namefirst),1,3)) from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| Select 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 id, namefirst, namelast, dob, emailID from student where length(emailId) > 20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select concat(namefirst," ",namelast) 'full 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 , emailID , concat(namefirst,' ',namelast,' and ',emailid) as details 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 substr(namefirst,1,4) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| Select substr(namefirst,2,length(namefirst)-2) r1 from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| Select ascii(namefirst) from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| Select substr(namefirst,1,5) 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 extract(month from DOB)=10; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| Select \* from student where extract(month from DOB) in(01,12); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select \* from student where dayname(dob)='sunday'; |
|  |
| 1. Print current date and time. |
| Select now(); |
|  |
| 1. Extract month from the current date. |
| Select extract(month from now()); OR Select date\_format(now(),'%b'); |
|  |
| 1. Extract year from the current date. |
| Select extract(year from now()); |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| Select \* from student where extract(year from DOB)=1984 order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| Select \* from student where extract(month from DOB) between 09 and 12; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| Select \* from student where date\_format(DOB,'%u')=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) r1 ; |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| Select substr(namefirst,1,5) 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 date\_format(DOB,'%a'); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| Select \* from student where extract(month from DOB) between 09 and 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 DOB, str\_to\_date(DOB,'%d/%m/%Y') from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select name 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; |
|  |