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.

|  |
| --- |
| 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 ascii(substr(namefirst,3,1)) 'r1' from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select namefirst, namelast, lower(namefirst) L, lower(namelast) from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, emailID, substr(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, substr(namefirst,-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 where id 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; |
|  |
| 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) R1 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 ,IfNULL(namefirst,' '),IfNULL(namelast,' '),IfNULL(emailid,' ') from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select upper(namefirst) R1, upper(namelast) R2 from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lower(namefirst) R1, lower(namelast) R2 from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst) R1, reverse(namelast) R2 from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| Select namefirst, substr(namefirst,1,3) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substr(namefirst,2,length(namefirst)-2) from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select namefirst, ascii(namefirst) from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select namefirst, substr(namefirst,1,5) from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select number, rpad(left(number,6), 10, '\*') from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| SELECT \*, EXTRACT(MONTH FROM dob) r10 from student having r10=10 ; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| SELECT \*, EXTRACT(MONTH FROM dob) month from student having month = 1 or month =12 ; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| SELECT \*, dayname(dob) from faculty where dayname(dob) = 'sunday'; |
|  |
| 1. Print current date and time. |
| select now(); |
|  |
| 1. Extract month from the current date. |
| SELECT EXTRACT(month FROM now()); |
|  |
| 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 namefirst, dob 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 \* ,quarter(dob) from student where quarter(dob) = 4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| SELECT \*, weekofyear(dob) from student where weekofyear(dob) = 43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| SELECT \*, dayofmonth(dob) from faculty where dayofmonth(dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| SELECT FLOOR(RAND() \* 89 ) OTP; |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| Select namefirst, 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 \*,dayname(dob) from student order by dayofweek(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* ,quarter(dob) from student where quarter(dob) = 4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| SELECT \*, dayname(dob) from student where dayname(dob) = 'sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select date\_format(dob, ' %D of %b %Y') from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select \*, dayname(endson) from course\_batches where dayname(endson)='sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select number, rpad(left(number,4), 10, '\*') from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
|  |
|  |