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.

|  |
| --- |
| * Get student *namefirst* with how many characters are there in their *namefirst*. |
| select length(namefirst) as namelength from students; |
|  |
| * Get student details whose *namefirst* is having 4 characters only. |
| select \*,length(namefirst) as namelength from student where length(namefirst)=4; |
|  |
| * Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, ascii(substr(namefirst, 3, 1)) ascii from student;sel |
|  |
| * Get *namefirst* and *namelast* in lowercase. |
| select lower(namefirst), lower(namelast) from student; |
|  |
| * Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, substr(emailid,1,7) r1 from student; |
|  |
| * Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst, namelast , substr(namefirst, 1,3) first\_name from student; |
|  |
| * Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast , substr(namefirst, (length(namefirst)-2), length(namefirst))3letter from student; |
|  |
| * Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select number from student\_phone where number like'70%'; |
|  |
| * Get student details of first 5 student. |
| select \* from student limit 5; |
|  |
| * Get student details of last 5 student. |
| select \* from student order by id desc limit 5 ; |
|  |
| * Get student details in ascending order of *namefirst*. |
| select \* from student order by namefirst asc ; |
|  |
| * Get student details in descending order of *namelast*. |
| select \* from student order by namefirst desc ; |
|  |
| * 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; |
|  |
| * Combine to display student *namefirst* and *namelast*. |
| select concat(namefirst,namelast) from student; |
|  |
| * 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)** |
|  |
|  |
| * Get student *namefirst* and *namelast* in upper case. |
| select UPPER(namefirst),UPPER(namelast) from student; |
|  |
| * Get student firstname and *lastname* in lower case. |
| select LOWER(namefirst),LOWER(namelast) from student; |
|  |
| * Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst),reverse(namelast) from student; |
|  |
| * Get first 4 letters of student *namefirst*. |
| select substr(namefirst,1,4)first\_name from student; |
|  |
| * Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substr(namefirst,2,length(namefirst)-2)first\_name from student; |
|  |
| * Get ASCII character of student *namefirst*. |
| select namefirst, ascii(namefirst) from student; |
|  |
| * Get first 5 letter of the students’ *namefirst*. |
| select namefirst, left(namefirst, 5) from student; |
|  |
| * Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select concat(left(number,5),'\*\*\*\*\*')from student\_phone; |
|  |
| * Get all student whose DOB is in the month of ‘October’. |
| select \* from student where monthname(dob)= 'October'; |
|  |
| * Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| Select \* from student where monthname(dob)='january' or monthname(dob)='december'; |
|  |
| * Get all faculty who were born on ‘Sunday’ |
| Select \* from faculty where dayname(dob)='Sunday'; |
|  |
| * Print current date and time. |
| select now(); |
|  |
| * Extract month from the current date. |
| select extract(month from now()); |
|  |
| * Extract year from the current date. |
| select extract(year from now()); |
|  |
| * 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; |
|  |
| * Get all student whose DOB is in the 4 quarter of a year. |
| select \* from student where extract(quarter from DOB)=4; |
|  |
| * Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where extract(week from dob)=43; |
|  |
| * Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where extract(day from dob)between 10 and 19; |
|  |
| * Generate the random number between 1 to 100 |
| select floor(rand()\*100); |
|  |
| * Display the 5 character of namefirst column from student table. |
| select substr(namefirst,1,5)5\_char from student; |
|  |
| * 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 dob,dayname(dob); |
|  |
| * Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* from student where extract(quarter from dob)=4; |
|  |
| * Display all student who were born on ‘Sunday’. |
| select \* from student where dayname(dob)='sunday'; |
|  |
| * Display the DOB in the give format **‘12th of June 1984’** |
| Select date\_format(dob, '%D of %M %Y') from student; |
|  |
| * Display all course\_batches who ends on ‘Sunday’. |
| select name from course\_batches where dayname(endson)='sunday'; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select concat(left(number,4),'\*\*\*\*\*\*')from student\_phone; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select concat(left(number,4),'\*\*\*\*',right(number,4))from student\_phone; |
|  |