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) len from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| select namefirst,length(namefirst) len from student where (length(namefirst)=4); |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, substr(namefirst,3,1),ascii(substr(namefirst,3,1)) from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select lcase(namefirst),lcase(namelast) from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst,namelast,emailid,length(namefirst) len from student where(length(namefirst)=7); |
|  |
| 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,length(namefirst)-2,3) from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select \* from student\_phone where substr(number,1,2) = 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 namefirst 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) 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 , concat(namefirst,' ',namelast,' and ',emailid) as details from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select ucase(namefirst) NF,ucase(namelast) NL from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lcase(namefirst) NF,lcase(namelast) NL from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst) NF, reverse(namelast) NL from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select namefirst, substr(namefirst,1,4) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substr(namefirst,2,length(namefirst)-2) r1 from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ascii(namefirst) r1 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 concat(number,"\*\*\*\*\*") from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \*from student where (substr(dob,6,2)=10); |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \*from student where (substr(dob,6,2)=01 or substr(dob,6,2)=12); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where (dayname(dob)='sunday'); |
|  |
| 1. Print current date and time. |
| select now(); |
|  |
| 1. Extract month from the current date. |
| select monthname(now()); |
|  |
| 1. Extract year from the current date. |
| select year(now()); |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select namefirst,dob from student where year(dob)=1984 order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| select namefirst,dob from student where quarter(dob)=4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select namefirst,dob,weekofyear(dob) w1 from student where weekofyear(dob)=43 ; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select namefirst,dob from student where (day(dob) between 10 and 19); |
|  |
| 1. Generate the random number between 1 to 100 |
| select floor( rand() \* (100-0) -0) r1; |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| Select namefirst,substr(namefirst,1,5) r1 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 namefirst,namelast,dob,dayname(dob) w1 from student order by weekday(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select namefirst,dob from student where quarter(dob)=4; |
|  |
| 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 \* from course\_batches where dayname(endson)='sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select insert (number,6,5,"\*\*\*\*\*") from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select insert (number,5,2,"\*\*") from student\_phone; |
|  |