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 length(namefirst) 'length' from student;** |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| **select namefirst from student where length(namefirst)=4;** |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| **select namefirst,ascii(substr(namefirst,3,length(namefirst))) 'ascii value' from student;** |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| **select namefirst, lcase(namefirst), namelast, lcase(namelast) from student;** |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| **select namefirst, namelast, substr(replace(emailid,'.' ,''),1,7 ) "emailid" from student;** |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| **select namefirst, namelast, substr(namefirst, 1, 3) 'first 3 letters' from student;** |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| **select namefirst, namelast, right(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<6;** |
|  |
| 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 namefirst, namelast, concat(namefirst,namelast) 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 ifnull(concat(namefirst,' ',namelast,' ','and emailid is',':',emailid ),'') "fullname" from student;** |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| **select namefirst ,ucase(namefirst) 'uppercase', namelast , ucase(namelast) 'uppercase' from student;** |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| **select namefirst ,lcase(namefirst) 'lowercase', namelast , lcase(namelast) 'lowercase' from student;** |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| **select namefirst, reverse(namefirst) 'Reverse first name', namelast, reverse(namelast) 'Reverse last name' from student;** |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| **select namefirst ,left(namefirst,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) ‘name’ 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 ,left(namefirst,4) from student;** |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| **select number,rpad(number,length(number)+5,'\*') format from student\_phone;** |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| **select namefirst, dob, monthname(dob) 'Month' from student where monthname(dob)='October';** |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| **select namefirst, dob, monthname(dob) 'Month' from student where monthname(dob)='January' or monthname(dob)= 'December';** |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| **select namefirst, dob, dayname(dob) 'Day' from faculty where dayname(dob)='sunday';** |
|  |
| 1. Print current date and time. |
| **select now() 'current date and time ';** |
|  |
| 1. Extract month from the current date. |
| **select now(), extract(month from now()) MONTH;** |
|  |
| 1. Extract year from the current date. |
| **select now(), extract(year from now()) YEAR;** |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| **select namefirst, dob, year(dob) '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 namefirst, dob, quarter(dob) 'QUARTER' from student where quarter(dob)=4 order by namefirst;** |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| **select namefirst, dob, weekofyear(dob) 'WEEK' from student where weekofyear(dob)=43 order by namefirst;** |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| **select namefirst, dob, dayofmonth(dob) 'day' from student where dayofmonth(dob) between 10 and 19 order by namefirst;** |
|  |
| 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 namefirst ,left(namefirst,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 \*,dayname(dob) day from student order by weekday(dob), 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 namefirst, dob,dayname(dob) from student where dayname(dob)='sunday';** |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| **select namefirst, namelast, DATE\_FORMAT(dob, '%D of %b %Y') Format from student;** |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| **select name, endson,dayname(endson) from course\_batches where dayofweek(endson)=1;** |
|  |
| 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. |
| **select number, concat (left(number,4),'\*\*\*\*',right(number,4))R1 from student\_phone;** |
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