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) 'Length of String name' from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| select namefirst, length(namefirst) 'Length of String name' from student where length(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| select namefirst, ascii(substr(namefirst,3,1)) 'Ascii of 3rd char' 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 lemailid from (select namefirst, length(emailID) 'LEMAILID' from student)q where lemailid=7;  select namefirst, namelast, 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) 'FIRST 3 char' from student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast, substr(namefirst,length(namefirst)-2,3) 'last 3 char' from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select studentID, group\_concat(distinct number) from student\_phone group by studentID order by studentID; |
|  |
| 1. Get student details of first 5 student. |
| select \* from student order by id limit 5; |
|  |
| 1. Get student details of last 5 student. |
| select \* from student order by 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 \* from (select namefirst, length(emailID) 'LEMAILID', emailID from student)q where lemailid>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(namefirst, ' ') FIRSTnAMe, ifnull(namelast, ' ') LASTnaMe, ifnull(emailid, ' ') 'EMAIL-ID' from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select ucase(namefirst), ucase(namelast) from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lcase(firstname), lcase(lastname) 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) 'FIRST 4 CHAR' from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substr(namefirst,2,length(namefirst)-2) 'FIRST2 to Last2' from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ascii(namefirst) from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select namefirst, left (namefirst,5) 'First 5' from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select rpad(number,15,'\*') from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select namefirst, dob from student where MONTHnAME(dob)='October';  select namefirst, dob 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 monthname(DOB)='january' or monthname(DOB)='december';  SAME o/P: select \* from student where monthname(DOB) in ('january', 'december'); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select namefirst, dob from faculty where dayname(dob)='Sunday'; |
|  |
| 1. Print current date and time. |
| select now(); |
|  |
| 1. Extract month from the current date. |
| select month(curdate()) 'current month', monthname(curdate()) 'current month'; |
|  |
| 1. Extract year from the current date. |
| select year(curdate()) 'current year'; |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select \* from student where year(dob)=1984 order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 4 quarter of a year. |
| select \* from student where quarter(dob)=4 order by namefirst; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where week(dob)=43 order by namefirst; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where day(dob) between 10 and 19;  select \* from student where dayofmonth(dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| select rpad(rand(100)\*1000,3,'');  SELECT ROUND(RAND() \* 100); |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select namefirst, left(namefirst,5) 'FRIST 5 CHAR' 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, dob, dayofweek(dob), dayname(dob) from student order by dayofweek(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* 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 dob, concat(day(dob),'th of ', monthname(dob), ' ', year(dob)) 'FORMATTED' 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. |
| select number, rpad(left(number,4),6,'\*'), lpad(right(number,4),6,'\*'), concat(rpad(left(number,4),6,'\*'), lpad(right(number,4),6,'\*')) 'Asked Format'from student\_phone; |
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