Assignment

August/ DBT/ 006

Database Technologies

Diploma in Advance Computing

August 2024

**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) length from student;** |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| **select \* from student where length(namefirst) = 4;** |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| **select ascii(substring(namefirst, 3, 1)) as ascii\_of\_3\_character 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, left(emailid, 7) from student;** |
|  |
| 1. Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| **select namefirst, namelast, left(namefirst, 3) 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 left(number, 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 limit 23, 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, emailid from student where length(emailid) > 20;** |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| **select concat(namefirst, namelast) as `Full Name` 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 concat(namefirst," " , namelast, " email id is ", emailid) as `Full Name with 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(namefirst), lcase(namelast) 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 left(namefirst, 4) from student**; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| **select substring(namefirst, 2, length(namefirst)-2) from student;** |
|  |
| 1. Get ASCII character of student *namefirst*. |
| **select ascii(namefirst) from student;** |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| **select left(namefirst, 5) from student**; |
|  |
| 1. Print *phonenumber* of all student in the given format 7032300034\*\*\*\*\*. |
| **select number, rpad(number, 15, "\*") from student\_phone;** |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| **select \* from student where month(dob) = 10;** |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| **select \* from student where month(dob) = 1 or month(dob) = 12;** |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| **select \* from faculty where dayofweek(dob) = 1;** |
|  |
| 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 \* from student where quarter(dob) = 4;** |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| **select \* from student where weekofyear(dob) = 43;** |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| **select \* from student where dayofmonth(dob) between 10 and 19;** |
|  |
| 1. Generate the random number between 1 to 100 |
| **select rand() \* 100;** |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| **select left(namefirst, 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 DOB, dayname(dob) day 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 DOB, dayname(dob) day from student where dayofweek(dob) = 1;** |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| **select DATE\_FORMAT(dob, '%D of %M %Y') from student;** |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| **select \*, dayname(endson) as endDay from course\_batches where dayofweek(endson) = 1;** |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| **select rpad(left(number, 4), 10, "\*") as maskedNumber from student\_phone;** |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| **select concat(rpad(left(number, 4), 8, "\*"), right(number, 4)) as maskedNumber from student\_phone;** |
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