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 length(namefirst) 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,3,1)) 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, substr(emailID,1,7) SEmail from student; |
|  |
| 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,-3,3) from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select id, number from student\_phone where number like '70%'; |
|  |
| 1. Get student details of first 5 student. |
| select \* from student where ID between 1 and 5; |
|  |
| 1. Get student details of last 5 student. |
| select \* from student order by id desc limit 5;  or select \* from (select \* from student order by id desc limit 5) Stud order by id; |
|  |
| 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 Concat(namefirst,namelast) Fullname 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," and EmailId is ", emailid),IFNULL(namefirst, " ")NAMEFIRST ,IFNULL(namelast, " ")NAMELAST, IFNULL(Emailid, " ")EMAILID 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 substr(namefirst,1,4) NAMEFIRST from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select MID(namefirst,2,LENGTH(namefirst)-2) NAMEFIRST from student;  **OR**  select substr(namefirst,2,LENGTH(namefirst)-2) NAMEFIRST from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select Ascii(namefirst) NAMEFIRST from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select substr(namefirst,1,5) NAMEFIRST from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| SELECT RPAD(NUMBER,15,'\*') PHONENUMBER 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 WEEKDAY(DOB)=6; |
|  |
| 1. Print current date and time. |
| select curdate() DATE, curtime() TIME; |
|  |
| 1. Extract month from the current date. |
| select curdate(), month(curdate()) MONTH; |
|  |
| 1. Extract year from the current date. |
| select curdate(), YEAR(curdate()) 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; |
|  |
| 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 DAY(DOB) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
|  |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select substr(namefirst,1,5) NAMEFIRST 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 Id, namefirst, DATE\_FORMAT(DOB,'%W') DAY from student order by case dayofweek(DOB) when 2 then 1 when 3 then 2 when 4 then 3 when 5 then 4 when 6 then 5 when 7 then 6 when 1 then 7 end; |
|  |
| 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 id, namefirst, namelast, dob, DAYNAME(DOB) DAY from student where dayname(DOB)='sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select id, namefirst, namelast, dob, date\_format(DOB,'%D of %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 RPAD(substr(number,1,4),10,'\*') PHONENUMBER FROM STUDENT\_PHONE; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| SELECT CONCAT(RPAD(substr(number,1,4),8,'\*'),SUBSTR(number,-4,4)) PHONENUMBER FROM STUDENT\_PHONE; |
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