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) strlength 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 substr(namefirst,3,1), ascii(substr(namefirst, 3, 1)) Ascii 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. |
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|  |
| 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) from student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select number 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 limit 23,28; |
|  |
| 1. Get student details in ascending order of *namefirst*. |
| select namefirst from student order by(namefirst); |
|  |
| 1. Get student details in descending order of *namelast*. |
| select namelast 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 namefirst, namelast, dob, emailId from student where length(emailId) > 20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select namefirst,namelast,concat(namefirst,namelast) concat 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)** |
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|  |
| 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) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst , substr(namefirst,2,length(namefirst)-2) from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
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|  |
| 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 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 student where weekday(dob)='sunday' ; |
|  |
| 1. Print current date and time. |
| Select date\_format(now(), '%y-%m-%d' '%I:%i:%s'); |
|  |
| 1. Extract month from the current date. |
| Select date\_format(now(), '%m'); |
|  |
| 1. Extract year from the current date. |
| Select date\_format(now(), '%y'); |
|  |
| 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 extract(quarter from dob) = 4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where extract(week from dob) = 43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where extract(day from dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
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|  |
| 1. Display the 5 character of namefirst column from student table. |
| select namefirst , substr(namefirst, 1,5) 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 \* from student order by weekday(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* from student where extract(quarter from dob) = 4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| ­­­­­­­­­­ select \* from student where dayofweek(dob) = 1; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select dob, date\_format(dob,'%D' " " "of" " " '%M' " " '%Y') from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select endson from course\_batches where dayofweek(endson) = 1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| SELECT number ,rpad(substr(number,1,4),10,'\*') from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| Select concat(substr(number, 1, 4), '\*\*\*\*', substr(number, 7, 10)) as masked\_phone from student\_phone; |
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