Assignment

Feb20/ DBT/ 006

Database Technologies

Diploma in Advance Computing

February 2020

**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) 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 namefirst, ascii(substr(namefirst,3,1)) from student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select lower(namefirst) , lower(namelast) from student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, emailID from student where length(emailID) = 7; |
|  |
| 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 phone from student\_phone where phone like '70%'; |
|  |
| 1. Get student details of first 5 student. |
| select \* from student limit 5; |
|  |
| 1. Get student details of last 5 student. |
| select @cnt:=@cnt+1 R1, student.\* from student, (select @cnt:=0) x order by R1 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 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 concat(ifnull(namefirst, ' '), ' ', ifnull(namelast, ' '), "and emailIDis ", ifnull(emailID, ' ' )) as R1 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(firstname), reverse(lastname) from n2employee; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| select namefirst, substr(namefirst, 1, 4) as R1, left(namefirst,4) as R2 from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substr(namelast,2, length(namelast)-2) as R1 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, substr(namefirst, 1, 5), left(namefirst,5) from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select rpad(phone, 15, "\*") from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \* from student where date\_format(DOB, '%M') = 'October'; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \* from student where date\_format(DOB,'%M')=‘January’ or date\_format(DOB,'%M')='December'; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where date\_format(DOB,'%W')='Sunday' |
|  |
| 1. Print current date and time. |
| select now() ; |
|  |
| 1. Extract month from the current date. |
| select now(), extract(month from now()); |
|  |
| 1. Extract year from the current date. |
| select now(), extract(year from now()); |
|  |
| 1. Get all student whose DOB is in the year 1984 in ascending order of *namefirst.* |
| select \* from student where extract(year from 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 |
| select round(rand() \* 100); |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select substr(namefirst, 5,1) 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 case  when date\_format(dob,'%W')='Monday' then 1  when date\_format(dob,'%W')='Tuesday' then 2  when date\_format(dob,'%W')='Wednesday' then 3  when date\_format(dob,'%W')='Thursday' then 4  when date\_format(dob,'%W')='Friday' then 5  when date\_format(dob,'%W')='Saturday' then 6  when date\_format(dob,'%W')='Sunday' then 7  end ; |
|  |
| 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 dayname(DOB) = 'Sunday'; |
|  |
| 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 \* from course\_batches where dayname(endson) = 'Sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select rpad(left(number, 4),10, '\*') number from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select concat(left(number, 4), "\*\*\*\*", right(number, 4)) from student\_phone; |
|  |