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.

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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 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)) R1 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,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) from student;  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 number like '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 order by id desc limit 5;  select \* from student order by id 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; |
|  |
| 1. Get *(student id, namefirst, namelast, dob, and emailID)* for all students whose length of email id is more than 20 characters. |
| select \* from student where length(emailid)>20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select concat(namefirst,namelast),dob,emailid 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,'and emailid is',emailid) from student;  select concat(namefirst,namelast,' ' ,'and email is', 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 left(namefirst,4) from student;  select namefirst, substr(namefirst,1,4) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substring(namefirst,2,1),substring(right(namefirst,2),1,1) from student;  select namefirst, substr(namefirst,2,1), substr(reverse(namefirst),2,1)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;  select namefirst, substr(namefirst,1,5) from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select rpad(number,15,'\*') from student\_phone;  select concat(number,'\*\*\*\*\*') from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select namefirst,month(DOB) from student where month(DOB)=10;  select namefirst, dob,monthname(dob) from student where monthname(dob)='october'; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select namefirst,month(DOB) from student where month(DOB)=1 or month(DOB)=12;  select namefirst,monthname(DOB) from student where month(DOB)=1 or month(DOB)=12;  select namefirst, dob,monthname(dob) from student where monthname(dob) in ('january','december');  elect namefirst, dob,monthname(dob) from student where monthname(dob)='january'or monthname(dob)='december'; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select namefirst,dayname(DOB) from faculty where dayname(DOB)='sunday'; |
|  |
| 1. Print current date and time. |
| select curdate()Date,curtime() Time;  select now(); |
|  |
| 1. Extract month from the current date. |
| select extract(month from now());  select now(),extract(month from now());  select now(), month(now()); |
|  |
| 1. Extract year from the current date. |
| select extract(year from now());  select now(), 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 namefirst ,quarter(dob) from student where quarter(dob)=4 |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| select namefirst, week(DOB) from student where week(DOB)=43; |
|  |
| 1. Get all student whose DOB is in between 10 and 19 day. |
| select id,ID,namefirst,namelast,DOB,emailID,extract(day from DOB)R1 from student where extract(day from DOB) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| select (rand() \*100) R1; |
|  |
| 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 \* from student order by dob,dayname(dob);  select namefirst,dayname(dob) from student order by date\_format(dob,'%a'); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| select namefirst ,quarter(dob) from student where quarter(dob)=4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| select namefirst,dayname(DOB) from student where dayname(DOB)='sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| Select date\_format(dob,'%D' ' of ' '%b' '%Y' ) from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| select name,dayname(endson) 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),9,'\*') 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; |
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