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) R 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 NAMEFIRST,NAMELAST FROM STUDENT IN LCASE(); |
|  |
| 1. Get (namefirst, namelast, and emailID) all 20 letter emailID. |
| SELECT NAMEFIRST,NAMELAST, EMAILID FROM STUDENT WHERE LENGTH(EMAILID)='20'; |
|  |
| 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,LENGTH(NAMEFIRST)-2,3) FROM STUDENT; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| SELECT \* 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. |
|  |
|  |
| 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 NAMEFIRST,NAMELAST, EMAILID FROM STUDENT WHERE LENGTH(EMAILID)='20'; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| SELECT \*,CONCAT(NAMEFIRST,NAMELAST) R 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 IFNULL(NAMEFIRST,' '),IFNULL(NAMELAST,' '),IFNULL(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; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| Select substr(left( namefirst,2),2,1), substr(right( namefirst,2),1,1) from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| SELECT ASCII(NAMEFIRST) FROM STUDENT; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| SELECT NAMEFIRST,LEFT(NAMEFIRST,5) FROM STUDENT; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| SELECT NUMBER ,CONCAT(LEFT(NUMBER,10),'\*\*\*\*\*') FROM student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| Select \* from student where monthNAME( dob )='DECEMBER'; [OR]  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 DAYNAME(DOB)='SUNDAY'; |
|  |
| 1. Print current date and time. |
| SELECT CURDATE(), CURTIME(); [OR] select now(); |
|  |
| 1. Extract month from the current date. |
| SELECT EXTRACT(MONTH FROM NOW()); |
|  |
| 1. Extract year from the current date. |
| Select 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 id, namefirst, namelast, emailid, quarter(dob) r from student where quarter(dob)=4; |
|  |
| 1. Get all student whose DOB is in the 43rd week of a year. |
| Select id, namefirst, namelast, emailid,dob, week(dob) r from student where week(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; [or]  Select \* from student where extract(day from dob) between 10 and 19; |
|  |
| 1. Generate the random number between 1 to 100 |
| select floor(rand()\*100); |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| select 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 \*, dayname(dob) r1 from student order by weekday(dob); |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| Select id, namefirst, namelast, emailid, quarter(dob) r from student where quarter(dob)=4; |
|  |
| 1. Display all student who were born on ‘Sunday’. |
| Select \*, dayname(dob) r1 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 id, courseid, starton, endson, dayname(endson) r1 from course\_batches where dayname(endson)='sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select id,studentid, number, rpad(number, 4,'\*') from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| Select id,studentid,concat(left(number,3),’\*\*\*\*’,right(number,3)) from student\_phone; |
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