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) R1 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, SUBSTR(namefirst,3,1) R1, ASCII(SUBSTR(namefirst,3,1)) R2 FROM student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| SELECT LCASE(namefirst) R1,LCASE(namelast) R2 FROM student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| SELECT namefirst, namelast,emailID, 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) R1 FROM student; |
|  |
| 1. Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| SELECT namefirst, namelast, SUBSTR(namefirst,(LENGTH(namefirst)-2),3) R1 FROM student; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| SELECT studentID,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 order by ID 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 namefirst,namelast,emailID, CONCAT(namefirst,'.',namelast,'@gmail.com') 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) FROM student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| SELECT SUBSTR(namefirst,2,LENGTH(namefirst)-2) 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 SUBSTR(namefirst,1,5) FROM student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| SELECT CONCAT(number,'\*\*\*\*') 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 DAYOFWEEK(DOB)=1 ; |
|  |
| 1. Print current date and time. |
| SELECT NOW(); |
|  |
| 1. Extract month from the current date. |
| SELECT MONTHNAME(NOW()); |
|  |
| 1. Extract year from the current date. |
| SELECT YEAR(NOW()); |
|  |
| 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 desc; |
|  |
| 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 DAYOFYEAR(DOB)>=10 AND DAYOFYEAR(DOB)<=19;  SELECT \* FROM student WHERE DAYOFMONTH(DOB)>=10 AND DAYOFMONTH(DOB)<=19; |
|  |
| 1. Generate the random number between 1 to 100 |
| Select ceiling(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 \* FROM student ORDER BY DAYOFWEEK(DOB); |
|  |
| 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 \*,DAYOFWEEK(DOB) R1 FROM student WHERE DAYOFWEEK(DOB)=1; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| SELECT CONCAT(EXTRACT(DAY FROM DOB),'th of ',MONTHNAME(DOB),' ', EXTRACT(YEAR FROM DOB)) R1 FROM student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| SELECT \* FROM course\_batches WHERE DAYOFWEEK(endon)=1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| SELECT \*,DAYOFWEEK(endson)R1 FROM course\_batches WHERE DAYOFWEEK(endson)=1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| SELECT number,CONCAT(SUBSTR(number,1,4),'\*\*\*\*',SUBSTR(number,7,4)) R1 FROM student\_phone; |
|  |