Assignment

August/ DBT/ 006

Database Technologies

Diploma in Advance Computing

August 2024

Number- 9,10

**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) as FirstNameLength 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 ascii(substr(namefirst,3,1)) as ASCII\_Value from student ; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| select lcase(namefirst) as firstname ,lcase(namelast) as lastname 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,substr(namefirst,1,3) as namefirst\_First\_3 from student ; |
|  |
| 1. Get*(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast,substr(namefirst,-3,3) as name\_last3 from student ; |
|  |
| 1. Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select number as Phone\_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 23,5; |
|  |
| 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 namefirst, namelast, DOB, emailID from student where length(emailID) > 20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| select concat(namefirst,namelast) as name 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 COALESCE(namefirst, '') AS namefirst, COALESCE(namelast, '') AS namelast, COALESCE(emailID, '') AS emailID FROM student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| select ucase(namefirst) as firstname ,ucase(namelast) as lastname from student ; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| select lcase(namefirst) as firstname ,lcase(namelast) as lastname 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) as name from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select substr(namefirst,1,1) FirstName\_Second\_char, substr(namefirst,-2,1) FirstName\_Secondlast\_char from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| select ascii(namefirst) NameFirst\_ASCII from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| select substr(namefirst,1,5) Firstname from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select concat(substr(number,1,6),'\*\*\*\*') Ph\_Number from student\_phone; |
|  |
| 1. Get all student whose DOB is in the month of ‘October’. |
| select \* from student where monthname(dob)='October'; |
|  |
| 1. Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \* from student where monthname(dob)='January' or monthname(dob)='December'; |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where dayofweek(dob)=1; |
|  |
| 1. Print current date and time. |
| select curdate(), curtime(); |
|  |
| 1. Extract month from the current date. |
| select month(curdate()); |
|  |
| 1. Extract year from the current date. |
| select year(curdate()); |
|  |
| 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 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 dayofmonth(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,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 \* from student where dayofweek(Dob)=1; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| select date\_format(dob, '%D of %m %Y') as Date from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| SELECT \* from course\_batches where dayofweek(endson)=1; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| SELECT concat(substr(number,1,6),'\*\*\*\*') Ph\_number from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students.   SELECT number, concat(substr(number,1,4),'\*\*',substr(number,7)) Ph\_number from student\_phone; |
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