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.

|  |
| --- |
| * Get student *namefirst* with how many characters are there in their *namefirst*. |
| select namefirst, length(namefirst) Length from student; |
|  |
| * Get student details whose *namefirst* is having 4 characters only. |
| select \* from student where length(namefirst)=4; |
|  |
| * 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; |
|  |
| * Get *namefirst* and *namelast* in lowercase. |
| select namefirst, namelast , lcase(namefirst), lower(namelast) from student; |
|  |
| * Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| select namefirst, namelast, lpad(emailID,7,' ') R1 from student;//  select namefirst, namelast, left(emailID,7) R1 from student; |
|  |
| * Get *(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| select namefirst, namelast, lpad(namefirst,3,' ') R1 from student;//  select namefirst, namelast, left(namefirst,3) R2 from student; |
|  |
| * Get *(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| select namefirst, namelast, right(namefirst,3) R2 from student; |
|  |
| * Get all student *(phonenumber)* whose *phonenumber* starts with 70. |
| select number from student\_phone where instr(number,'70'); |
|  |
| * Get student details of first 5 student. |
| select \* from student limit 5; |
|  |
| * Get student details of last 5 student. |
| select \* from student limit 5 offset 23; |
|  |
| * Get student details in ascending order of *namefirst*. |
| select \* from student order by namefirst; |
|  |
| * Get student details in descending order of *namelast*. |
| select \* from student order by namelast desc; |
|  |
| * 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); |
|  |
| * Combine to display student *namefirst* and *namelast*. |
| select namefirst, namelast, CONCAT(namefirst,namelast) N1 from student; |
|  |
| * 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,'') R1, ifnull(namelast,'') R2, ifnull(emailID,'')R3 ,concat(namefirst,' ',namelast,' and emailID is ',emailID)R4 from student; |
|  |
| * Get student *namefirst* and *namelast* in upper case. |
| select ucase(namefirst), ucase(namelast) from student; |
|  |
| * Get student firstname and *lastname* in lower case. |
| select lcase(namefirst), lcase(namelast) from student; |
|  |
| * Get student *firstname* and *lastname* in reverse order. |
| select reverse(namefirst),reverse(namelast) from student; |
|  |
| * Get first 4 letters of student *namefirst*. |
| select namefirst, left(namefirst,4) from student; |
|  |
| * Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| select namefirst, substr(namefirst,2,(length(namefirst)-2)) from student; |
|  |
| * Get ASCII character of student *namefirst*. |
| select namefirst, ascii(namefirst) from student; |
|  |
| * Get first 5 letter of the students’ *namefirst*. |
| select namefirst, left(namefirst,5) R1 from student; |
|  |
| * Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| select number , RPAD(right(number,10),15,'\*') R1 from student\_phone; |
|  |
| * Get all student whose DOB is in the month of ‘October’. |
| select \* from student where month(DOB)=10; |
|  |
| * Get all student whose DOB is in the month of ‘January’ or ‘December’. |
| select \* from student where month(DOB)in (1,12); |
|  |
| * Get all faculty who were born on ‘Sunday’ |
| select \* from faculty where dayname(DOB)=0;//  select \* from faculty where weekday(DOB)='Sunday'; |
|  |
| * Print current date and time. |
| select curdate(), curtime(); |
|  |
| * Extract month from the current date. |
| select month(curdate()); |
|  |
| * Extract year from the current date. |
| select year(curdate()); |
|  |
| * 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; |
|  |
| * Get all student whose DOB is in the 4 quarter of a year. |
| select \* from student where quarter(DOB)=4 ; |
|  |
| * Get all student whose DOB is in the 43rd week of a year. |
| select \* from student where weekofyear(DOB)=43; |
|  |
| * Get all student whose DOB is in between 10 and 19 day. |
| select \* from student where (day(DOB) between 10 and 19); |
|  |
| * Generate the random number between 1 to 100 |
| select floor(rand()\*100); |
|  |
| * Display the 5 character of namefirst column from student table. |
| select namefirst ,left(namefirst,5) from student; |
|  |
| * 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 dayname(DOB); |
|  |
| * Display all student who’s DOB comes in the 4th quarter of the year. |
| select \* from student where quarter(dob) = 4; |
|  |
| * Display all student who were born on ‘Sunday’. |
| select \*, dayname(dob) from student where dayname(dob) = 'Sunday'; |
|  |
| * Display the DOB in the give format **‘12th of June 1984’** |
| select dob, date\_format(dob, '%D of %b %Y') from student; |
|  |
| * Display all course\_batches who ends on ‘Sunday’. |
| select \*, dayname(endson) from course\_batches where dayname(endson)='sunday'; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| select \*, rpad(left(number, 4), 10, '\*') R1 from student\_phone; |
|  |
| * Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| select \*,concat(rpad(left(number, 4), 8, '\*'), right(number, 2)) R1 from student\_phone; |
|  |