Assignment

DBT/006

Database Technologies

Diploma in Advance Computing

**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*. |
| mysql> select namefirst, length(namefirst) from student; |
|  |
| 1. Get student details whose *namefirst* is having 4 characters only. |
| mysql> select namefirst from student where length(namefirst)=4; |
|  |
| 1. Get the ASCII value of the 3rd character of *namefirst* column. |
| mysql> SELECT namefirst, ASCII(SUBSTRING(namefirst, 3, 1)) AS 'ASCII Value of 3rd Character' FROM student; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| mysql> SELECT lower(namefirst), lower(namelast) FROM student; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| mysql> SELECT namefirst, namelast, emailid, substring(emailid,1,7) FROM student; |
|  |
| 1. Get*(namefirst, namelast and first 3 letters of namefirst)* for all students. |
| mysql> SELECT namefirst, namelast, substring(namefirst,1,3) FROM student; |
|  |
| 1. Get*(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| mysql> SELECT namefirst, namelast, substring(namefirst,-3) FROM student; |
|  |
| 1. Get all student*(phone number)* whose *phone number* starts with 70. |
| mysql> SELECT number FROM student\_phone where substring(number,1,2)=70; |
|  |
| 1. Get student details of first 5 students. |
| mysql> select \* from student limit 5; |
|  |
| 1. Get student details of last 5 students. |
| mysql> select \* from student order by id desc limit 5; |
|  |
| 1. Get student details in ascending order of *namefirst*. |
| mysql> select namefirst from student order by namefirst asc; |
|  |
| 1. Get student details in descending order of *namelast*. |
| mysql> select namefirst from student order by namefirst desc; |
|  |
| 1. Get *(student id, namefirst, namelast, dob, and emailID)* for all students whose length of email id is more than 20 characters. |
| mysql> select \* from student where length(emailid)>20; |
|  |
| 1. Combine to display student *namefirst* and *namelast*. |
| mysql> select concat(namefirst, " ",namelast) AS Full\_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. (BhoopaliNanadikar and emailID is bhoopali.nanadikar@gmail.com)** |
| mysql> select ifnull(namefirst," ") AS FIRST, ifnull(namelast," ") AS LAST, ifnull(emailid," ")AS EMAIL from student; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| mysql> select upper(namefirst), upper(namelast) from student; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| mysql> select lower(namefirst), lower(namelast) from student; |
|  |
| 1. Get student *firstname* and *lastname* in reverse order. |
| mysql> select namefirst, namelast, reverse(namefirst), reverse(namelast) from student; |
|  |
| 1. Get first 4 letters of student *namefirst*. |
| mysql> select namefirst, substring(namefirst,1,4) from student; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| mysql> select namefirst, substring(namefirst,2, length(namefirst)-2 ) AS Name\_between\_2 from student; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| mysql> select namefirst, ASCII(namefirst) from student; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| mysql> select namefirst, substring(namefirst,1,5) AS Students\_5Letters from student; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| mysql> select number, RPAD(number,15,'\*') from student\_phone; |
|  |
| 1. Get all students whose DOB is in the month of ‘October’. |
| mysql> select \* from student where date\_format(dob,'%M') = 'October'; |
|  |
| 1. Get all students whose DOB is in the month of ‘January’ or ‘December’. |
| mysql> select \* from student where date\_format(dob,'%M') IN ('january', 'December'); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| mysql> select \* from faculty where dayname(dob) = 'sunday'; |
|  |
| 1. Print current date and time. |
| mysql> select now(); |
|  |
| 1. Extract month from the current date. |
| mysql> select date\_format(now(),'%M'); |
|  |
| 1. Extract year from the current date. |
| mysql> SELECT EXTRACT(YEAR\_MONTH FROM NOW()) ; |
|  |
| 1. Get all students whose DOB is in the year 1984 in ascending order of *namefirst.* |
| mysql> SELECT \* from student where date\_format(dob,'%Y')=1984 order by namefirst asc; |
|  |
| 1. Get all students whose DOB is in the 4 quarter of a year. |
| mysql> SELECT \* from student where MONTH(dob) IN (10,11,12) ; |
|  |
| 1. Get all students whose DOB is in the 43rd week of a year. |
| mysql> SELECT \* from student where weekofyear(dob)=43 ; |
|  |
| 1. Get all students whose DOB is in between 10 and 19 day. |
| mysql> SELECT \* from student where dayofmonth(dob) BETWEEN 10 AND 19 ; |
|  |
| 1. Generate the random number between 1 to 100 |
| mysql> SELECT ROUND(RAND() \* 100); |
|  |
| 1. Display the 5 character of namefirst column from student table. |
| mysql> select namefirst, substring(namefirst,1,5)AS 5\_Char\_Name from student; |
|  |
| 1. Display all student in ascending order of their DOB, the ordering must be done on weekday name starting form ‘Monday’, ‘Tuesday’………. |
| mysql> SELECT \* from student order by weekday(dob) asc; |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| mysql> SELECT \* from student where quarter(dob)=4 ; |
|  |
| 1. Display all students who were born on ‘Sunday’. |
| mysql> select \* from student where dayname(dob)='sunday'; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| mysql> select dob, date\_format(dob,'%dth of %b %Y')AS Needed\_Format from student; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| mysql> select \* from course\_batches where dayname(endson)='sunday'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| mysql> select number, RPAD(substring(number,1,4),10,'\*') from student\_phone; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| mysql> select number, concat(substring(number,1,3),'\*\*\*\*',substring(number,-3)) AS Needed\_Format from student\_phone; |
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