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*. |
| SELECT NAMEFIRST, LENGTH(NAMEFIRST) AS LENGTH 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(SUBSTRING(NAMEFIRST,3,1)) AS ASCII FROM STUDENT; |
|  |
| 1. Get *namefirst* and *namelast* in lowercase. |
| SELECT LOWER(NAMEFIRST), LOWER(NAMELAST) FROM STUDENT; |
|  |
| 1. Get (namefirst, namelast, and emailID) all 7 letter emailID. |
| SELECT NAMEFIRST, NAMELAST, 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) FROM STUDENT; |
|  |
| 1. Get*(namefirst, namelast and last 3 letters of namefirst)* for all student. |
| SELECT NAMEFIRST, NAMELAST, SUBSTR(NAMEFIRST,-3) FROM STUDENT; |
|  |
| 1. Get all student*(phone number)* whose *phone number* starts with 70. |
| SELECT NUMBER FROM STUDENT\_PHONE WHERE NUMBER LIKE '70%'; |
|  |
| 1. Get student details of first 5 students. |
| SELECT \* FROM STUDENT LIMIT 5; |
|  |
| 1. Get student details of last 5 students. |
| 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) 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)** |
| SELECT IFNULL(NAMEFIRST," ") FIRSTNAME, IFNULL(NAMELAST," ") AS LASTNAME, IFNULL(EMAILID," ") AS EMAIL FROM STUDENT; |
|  |
| 1. Get student *namefirst* and *namelast* in upper case. |
| SELECT UPPER(NAMEFIRST), UPPER(NAMELAST) FROM STUDENT; |
|  |
| 1. Get student firstname and *lastname* in lower case. |
| SELECT LOWER(NAMEFIRST), LOWER(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) AS NAME\_LENGTH\_4 FROM STUDENT; |
|  |
| 1. Get second letter of student *namefirst* to second last letter of student *namefirst*. |
| SELECT SUBSTR(NAMEFIRST,2,LENGTH(NAMEFIRST)-2) AS NAME\_LENGTH\_4 FROM STUDENT; |
|  |
| 1. Get ASCII character of student *namefirst*. |
| SELECT ASCII(NAMEFIRST) FROM STUDENT; |
|  |
| 1. Get first 5 letter of the students’ *namefirst*. |
| SELECT SUBSTRING(NAMEFIRST,1,5) FROM STUDENT; |
|  |
| 1. Print *phone number* of all student in the given format 7032300034\*\*\*\*\*. |
| SELECT RPAD(NUMBER,15,"\*") FROM STUDENT\_PHONE; |
|  |
| 1. Get all students whose DOB is in the month of ‘October’. |
| SELECT \* FROM STUDENT WHERE MONTHNAME(DOB)='OCTOBER'; |
|  |
| 1. Get all students whose DOB is in the month of ‘January’ or ‘December’. |
| SELECT \* FROM STUDENT WHERE MONTHNAME(DOB) IN ('JANUARY','DECEMBER'); |
|  |
| 1. Get all faculty who were born on ‘Sunday’ |
| SELECT \* FROM FACULTY WHERE DAYNAME(DOB)='SUNDAY';  Empty set (0.00 sec) |
|  |
| 1. Print current date and time. |
| SELECT NOW() AS `CURRENT\_DATE AND TIME`; |
|  |
| 1. Extract month from the current date. |
| SELECT DATE\_FORMAT(NOW(),'%M'); |
| SELECT EXTRACT(MONTH FROM NOW()); |
| 1. Extract year from the current date. |
| SELECT EXTRACT(YEAR FROM NOW()); |
|  |
| 1. Get all students whose DOB is in the year 1984 in ascending order of *namefirst.* |
| SELECT \* FROM STUDENT WHERE EXTRACT(YEAR FROM DOB) = 1984 ORDER BY NAMEFIRST; |
| SELECT \* FROM STUDENT WHERE DATE\_FORMAT(DOB,'%Y') = 1984 ORDER BY NAMEFIRST; |
| 1. Get all students whose DOB is in the 4 quarter of a year. |
| SELECT \* FROM STUDENT WHERE MONTH(DOB) IN (10,11,12); |
|  |
| 1. Get all students whose DOB is in the 43rd week of a year. |
| SELECT \* FROM STUDENT WHERE WEEKOFYEAR(DOB)=43; |
|  |
| 1. Get all students whose DOB is in between 10 and 19 day. |
| SELECT \* FROM STUDENT WHERE DAY(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 WEEKDAY(DOB) ASC ; |
|  |
| 1. Display all student who’s DOB comes in the 4th quarter of the year. |
| SELECT \* FROM STUDENT WHERE QUARTER(DOB)=4; |
| SELECT \* FROM STUDENT WHERE MONTH(DOB) IN (10,11,12); |
| 1. Display all students who were born on ‘Sunday’. |
| SELECT \* FROM STUDENT WHERE DAYNAME(DOB)="SUNDAY"; |
|  |
| 1. Display the DOB in the give format **‘12th of June 1984’** |
| SELECT NAMEFIRST, NAMELAST, DATE\_FORMAT(DOB,'%dth OF %b %Y') FROM STUDENT; |
|  |
| 1. Display all course\_batches who ends on ‘Sunday’. |
| SELECT \* FROM COURSE\_BATCHES WHERE DAYNAME(ENDSON)='SUNDAY'; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*\*\*” for all students. |
| SELECT RPAD(SUBSTR(NUMBER,1,4),10,"\*") FROM STUDENT\_PHONE; |
|  |
| 1. Display student\_phone number in the following format “7032\*\*\*\*8765” for all students. |
| SELECT NUMBER, CONCAT(SUBSTR(NUMBER,4),"\*\*\*\*",SUBSTR(NUMBER,-4)) FROM STUDENT\_PHONE; |
|  |