**Assignment**

**Feb25/ DBT/ 006**

**Database Technologies**

**Diploma in Advance Computing**

**February 2025**

**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\_name from student;** |
|  |
| 1. **Get student details whose *namefirst* is having 4 characters only.** |
| **select namefirst, length(namefirst) as length\_name from student where length(namefirst)=4;** |
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| 1. **Get the ASCII value of the 3rd character of *namefirst* column.** |
| **select namefirst,length(namefirst)as countchar,ascii(substring(namefirst,3,1)) as ASCII from student;** |
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| 1. **Get *namefirst*and *namelast*in lowercase.** |
| **select lcase(namefirst),lcase(namelast) 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, substring(namefirst,1,3) first3letter from**  **student;** |
|  |
| 1. **Get*(namefirst, namelast and last 3 letters of namefirst)* for all student.** |
| **select namefirst,namelast, left(namefirst,3) first3letter from studen**  **t;** |
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| 1. **Get all students*(phone number)* whose *phone number* starts with 70.** |
| **select number from student\_phone where left(number,2)=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;** |
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| 1. **Get student details in descending order of *namelast*.** |
| **select \*from student order by namelast desc ;** |
|  |
| 1. **Get *(studentid, 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(email**  **id)=20;** |
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| 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*, *namelastoremailID)* is null then replace it with a blank space.**   **eg. (Bhoopali Nanadikar and emailIDis bhoopali.nanadikar@gmail.com)** |
| **select concat(namefirst,' ',namelast, 'and',' ','emailID is ',emaili**  **d) 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 namefirst,left(namefirst,4) 4Letter from student;** |
|  |
| 1. **Get second letter of student*namefirst* to second last letter of student *namefirst*.** |
| **select namefirst,substr(namefirst,2,(length(namefirst)-2)) from stude**  **nt;** |
|  |
| 1. **Get ASCII character of student*namefirst*.** |
| **select namefirst,ascii(namefirst,1) from student;** |
|  |
| 1. **Get first 5 letter of the students’*namefirst*.** |
| **select namefirst,left(namefirst,5) 5letter from student;** |
|  |
| 1. **Print *phone number*of all student in the given format 7032300034\*\*\*\*\*.** |
| **select id,concat(left(number,length(number)-5),'\*\*\*\*\*') as hide5digit from student\_phone;**  **select id,concat(rpad(left(number,length(number)-5),10,'\*')) as hide5digit from student\_phone;** |
|  |
| 1. **Get all students whose DOB is in the month of ‘October’.** |
| **select \*from student where month(dob)=10;** |
|  |
| 1. **Get all students whose DOB is in the month of ‘January’ or ‘December’.** |
| **select \*from student where month(dob) in (1,12);** |
|  |
| 1. **Get all faculty who were born on ‘Sunday’** |
| **select \*from faculty where dayname(dob)='sunday';** |
|  |
| 1. **Print current date and time.** |
| **select now() as current\_datetime;** |
|  |
| 1. **Extract month from the current date.** |
| **select monthname(now()) MonthName;** |
|  |
| 1. **Extract year from the current date.** |
| **select year(now()) YRAR;** |
|  |
| 1. **Get all students 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 students whose DOB is in the 4 quarter of a year.** |
| **select namefirst,namelast,dob, extract(quarter from dob)as R1 from st**  **udent where quarter(dob)=4;** |
|  |
| 1. **Get all students whoseDOB is in the 43rd week of a year.** |
| **select namefirst,namelast,dob,weekofyear(dob) from student where weekofyear(dob)=43;** |
|  |
| 1. **Get all student whose DOB is in between 10 and 19 day.** |
| **select namefirst,namelast,dob,dayofmonth(dob) from student where dayofmonth(dob) between 10 and 19 ;** |
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| 1. **Generate the random number between 1 to 100** |
| **select round(1+rand()\*100);** |
|  |
| 1. **Display the 5 character of namefirst column from student table.** |
| **select namefirst,left(namefirst,5) from student;** |
|  |
| 1. **Display all student in ascending order of their DOB, the ordering must be done on weekday name starting form**   **First Time: ‘Monday’, ‘Tuesday’…… ‘Sunday’**  **Second Time: ‘Friday’, ‘Saturday’ …… ‘Thursday’**  **Third Time: ‘Wednesday’, ‘Thursday’…… ‘Tuesday’** |
| **select namefirst,dob ,dayname(dob) r1 from student order by case**  **when dayname(dob)='Monday' then 1**  **when dayname(dob)='tuesday' then 2**  **when dayname(dob)='wednesday' then 3**  **when dayname(dob)='thursday' then 4**  **when dayname(dob)='friday' then 5**  **when dayname(dob)='saturday' then 6**  **when dayname(dob)='sunday' then 7 end;** |
|  |
| 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 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,dob, date\_format(dob,'%D' ' ' '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 studentid,number, concat(rpad(left(number,length(number)-6),10,'\*')) as numberHide from student\_phone;** |
|  |
| 1. **Display student\_phone number in the following format “7032\*\*8765” for all students.** |
| **select studentid,number, concat(left(number,4),'\*\*',left(number,4))**  **from student\_phone;** |
|  |
| 1. **Display nameFirst and count how many ‘A’ char in appearing in their names.** |
| **select id,namefirst,length(namefirst)-length(replace(namefirst,'a',''))CountAchar from student;** |
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