Assignment

Aug24/ DBT/ 008

Database Technologies

Diploma in Advance Computing

August 2024

**Aggregate Functions.**

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. Count total number of students. |
| **select count(ID) from student;** |
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| 1. Count total number of students who are born in 1986. |
| **select count(id) from student where year(dob) = 1986;** |
|  |
| 1. Count total number of students whose namefirst starts with the letter ‘B’. |
| **select count(\*) as total\_students from student where left(namefirst, 1) = 'b';** |
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| 1. Count total number student who were born in ‘July. |
| **select count(\*) from student where month(dob) = 7;** |
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| 1. Display studentID and count the student who are having more than two phones. |
| **select id, count(number) as phone\_count from student\_phone group by id having count(number) > 2;** |
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| 1. Count unique universities from student\_qualifications table. |
| **select count(distinct university) as unique\_university\_count from student\_qualifications;** |
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| 1. Display the university name and the count of those students who have done ‘BE’ |
| **select university, count(\*) as student\_count from student\_qualifications where name = 'be' group by university;** |
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| 1. Count how many students has done ‘BE’. |
| **select name, count(\*) as student\_count from student\_qualifications where name = 'be';** |
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| 1. Count how many students has not done ‘BE’. |
| **select count(\*) as students\_not\_done\_be from student\_qualifications where name <> 'be' or name is null;** |
|  |
| 1. Find the maximum marks student got in ‘BE’. |
| **select max(marks) as max\_marks from student\_qualifications where name= 'be';** |
|  |
| 1. Find the minimum marks student got in ‘BE’. |
| **select min(marks) as min\_marks from student\_qualifications where name= 'be';** |
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| 1. Count how many course\_batches have started on ’2016-02-01’. |
| **select count(\*) as batch\_count from course\_batches where starton = '2016-02-01';** |
|  |
| 1. Count the number of students who have more than 60% in ‘BE’. |
| select count(\*) as students\_above\_60\_percent from student\_qualifications where name = 'be' and marks > 60; |
|  |
| 1. Count the number of students who have more than 60% in ‘BE’ and done from ‘Harvard university’. |
| **select count(\*) as students\_above\_60\_percent\_harvard from (select \*from student\_qualifications where name = 'be' and marks > 60) as qualified\_students where university = 'harvard university';** |
|  |
| 1. Count number of courses. |
| **select count(\*) as coursename from course;** |
|  |
| 1. count how many distinct universities from student\_qualifications table. |
| **select count(distinct university) as distinct\_university\_count from student\_qualifications;** |
|  |
| 1. Find the maximum marks any student has got in “BE”. |
| **select max(marks) as max\_marks from student\_qualifications where name= 'be';** |
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