Assignment

Sept23/ DBT/ 008

Database Technologies

Diploma in Advance Computing

September 2023

**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 foll owing queries.

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| 1. Count total number of students. |
| select count(\*) from student; |
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| 1. Count total number of students who are born in 1986. |
| select count(id) as "Number of students with dob 1986" from student where year(dob)=1986; |
|  |
| 1. Count total number of students whose namefirst starts with the letter ‘B’. |
| select count(id) as "Number of students with Namefirst Starts with B" from student where namefirst like 'B%'; |
|  |
| 1. Count total number student who were born in ‘July. |
| select count(id) from student where monthname(dob)='july'; |
|  |
| 1. Display studentID and count the student who are having more than two phones. |
| select studentid, count(number) from student\_phone group by studentid having count(number)>2; |
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| 1. Count unique universities from student\_qualifications table. |
| select university from student\_qualifications group by university order by university; |
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| 1. Display the university name and the count of those students who have done ‘BE’ |
| select University, count(\*)as Count , name Degree from student\_qualifications group by name, university having name = 'BE' order by university ; |
|  |
| 1. Count how many students has done ‘BE’. |
| select count(\*)as "Count for BE" from student\_qualifications group by name having name='BE';  select count(\*)as "Count for BE" from student\_qualifications where name in ('BE'); |
|  |
| 1. Count how many students has not done ‘BE’. |
| select studentid from student\_qualifications group by id,name having name not in('10','12','be','dip');  select count(studentid) from student\_qualifications except select studentid from student\_qualifications where name="BE"; |
|  |
| 1. Find the maximum marks student got in ‘BE’. |
| select max(marks) from student\_qualifications where name='BE'; |
|  |
| 1. Find the minimum marks student got in ‘BE’. |
| select min(marks) from student\_qualifications where name='BE'; |
|  |
| 1. Count how many course\_batches have started on ’2016-02-01’. |
| select count(\*)as Batches from course\_batches where starton='2016-02-01'; |
|  |
| 1. Count the number of students who have more than 60% in ‘BE’. |
| select count(\*) from student\_qualifications where marks>60 and name='BE'; |
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| 1. Count the number of students who have more than 60% in ‘BE’ and done from ‘Harvard university’. |
| select count(\*) from student\_qualifications where marks>60 and name='BE' and university='Harvard University';  select group\_concat(id) as StudentID,university from student\_qualifications where marks>60 and name='BE' and university='Harvard University';  select group\_concat(id), count(\*), marks, university from student\_qualifications group by marks, name, university having marks>60 and name='BE'  and university='Harvard University'; |
|  |
| 1. Count number of courses. |
| select count(\*) from course; |
|  |
| 1. Count how many distinct universities from student\_qualifications table. |
| select distinct university from student\_qualifications order by university; |
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| 1. Find the maximum marks any student has got in “BE”. |
| select max(marks) from student\_qualifications group by name having name='BE'; |
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