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 following queries.

|  |
| --- |
| * Count total number of students. |
| select count(\*) R1 from student; |
|  |
| * Count total number of students who are born in 1986. |
| select count(\*) R1 from student where year(dob)='1986';//  select dob, count(\*) r1 from student group by dob having year(dob)='1986'; |
|  |
| * Count total number of students whose namefirst starts with the letter ‘B’. |
| select count(\*) R1 from student where namefirst like "b%"; |
|  |
| * Count total number student who were born in ‘July. |
| select count(\*) R1 from student where monthname(dob)='july'; |
|  |
| * Display studentID and count the student who are having more than two phones. |
| select studentid, count(studentid) R1 from student\_phone group by studentid having count(studentid)>=2; |
|  |
| * Count unique universities from student\_qualifications table. |
| select count(distinct(university)) R1 from student\_qualifications; |
|  |
| * Display the university name and the count of those students who have done ‘BE’ |
| select university, count(name) from student\_qualifications where name='BE' group by university; |
|  |
| * Count how many students has done ‘BE’. |
| select count(name), name from student\_qualifications where name = 'BE'; |
|  |
| * Count how many students has not done ‘BE’. |
| select count(name) from student\_qualifications where name != 'BE';  select name, count(name) from student\_qualifications where name != 'BE' group by name; |
|  |
| * Find the maximum marks student got in ‘BE’. |
| select max(marks), name from student\_qualifications where name='BE' group by name; |
|  |
| * Find the minimum marks student got in ‘BE’. |
| select min(marks), name from student\_qualifications where name='BE' group by name; |
|  |
| * Count how many course\_batches have started on ’2016-02-01’. |
| select\* from course\_batches where starton ='2016-02-01'; |
|  |
| * Count the number of students who have more than 60% in ‘BE’. |
| select count(id) from student\_qualifications where marks>60 and name = 'BE' ;//  select count(id),name, marks from student\_qualifications where marks>60 and name = 'BE' group by marks, name; |
|  |
| * Count the number of students who have more than 60% in ‘BE’ and done from ‘Harvard university’. |
| select count(id) from student\_qualifications where marks>60 and name = 'BE' and university = 'Harvard University';  select count(id),name, marks, university from student\_qualifications where marks>60 and name = 'BE' and university = 'Harvard University' group by marks, name, university; |
|  |
| * Count number of courses. |
| select count(\*) 'No.OfCourses' from course; |
|  |
| * Count how many distinct universities from student\_qualifications table. |
| select count(distinct(university)) 'Distinct Universities' from student\_qualifications; |
|  |
| * Find the maximum marks any student has got in “BE”. |
| |  | | --- | | select max(marks), name from student\_qualifications where name='BE' group by name; | |
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