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.

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| 1. Count total number of students. |
| SELECT COUNT(ID) FROM student;  SELECT COUNT(\*) FROM student; |
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| 1. Count total number of students who are born in 1986. |
| SELECT COUNT(\*) FROM student WHERE YEAR(DOB)=1986 ; |
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| 1. Count total number of students whose namefirst starts with the letter ‘B’. |
| SELECT COUNT(\*) FROM student WHERE SUBSTR(namefirst,1,1)='B' ; |
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| 1. Count total number student who were born in ‘July. |
| SELECT COUNT(\*) FROM student WHERE MONTH(DOB)=07 ; |
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| 1. Display studentID and count the student who are having more than two phones. |
| SELECT studentID,COUNT(studentID) FROM student\_phone GROUP BY studentID; |
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| 1. Count unique universities from student\_qualifications table. |
| SELECT COUNT(DISTINCT (university)) 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(\*) FROM student\_qualifications GROUP BY name,university HAVING name='BE'; |
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| 1. Count how many students has done ‘BE’. |
| 1. SELECT count(\*) FROM student\_qualifications GROUP BY name HAVING name='BE'; 2. SELECT count(\*) FROM student\_qualifications WHERE name='BE'; |
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| 1. Count how many students has not done ‘BE’. |
| SELECT count(\*) FROM student\_qualifications WHERE name!='BE'; |
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| 1. Find the maximum marks student got in ‘BE’. |
| 1. SELECT name, marks FROM student\_qualifications WHERE name='BE' ORDER BY DESC marks LIMIT 1; 2. SELECT name,max(marks) FROM student\_qualifications WHERE name='BE'; |
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| 1. Find the minimum marks student got in ‘BE’. |
| 1. SELECT name, marks FROM student\_qualifications WHERE name='BE' ORDER BY marks LIMIT 1; 2. SELECT name, 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 starton, COUNT(\*) FROM course\_batches GROUP BY starton HAVING starton = '2016-02-01'; |
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| 1. Count the number of students who have more than 60% in ‘BE’. |
| SELECT name, count(\*) FROM course\_batches GROUP BY name HAVING marks <= 60; |
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| 1. Count the number of students who have more than 60% in ‘BE’ and done from ‘Harvard university’. |
| SELECT university, name, marks FROM student\_qualifications WHERE marks>=60 and name= |
|  |
| 1. Count number of courses. |
| SELECT count(\*) FROM course; |
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| 1. Count how many distinct universities from student\_qualifications table. |
| SELECT COUNT(DISTINCT university)FROM student\_qualifications; |
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| 1. Find the maximum marks any student has got in “BE”. |
| SELECT MAX(marks) FROM student\_qualifications WHERE name='BE'; |
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