Assignment

Aug24/ DBT/ 011

Database Technologies

Diploma in Advance Computing

August 2024

**Sub-queries with joins.**

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. Display all student who have taken admission in more than 2 batches. |
| select studentID, count(\*) from batch\_students group by studentid having count(\*) > 2; |
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| 1. Display the student detail who have joined the same batch of the student ‘saleel’. |
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| 1. Display all courses where least number of students have taken the admission. |
| select \* from course where id in (select courseid from course\_batches where name in (select name from course\_batches where id in (select batchid from batch\_students group by batchid having count(\*) = (select min(r1) from (select batchID, count(\*) R1 from batch\_students group by batchid) T1)))); |
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| 1. Display student details who havenot taken the admission. |
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| 1. Get all courses where no modules are defined in course\_modules table. |
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| 1. Display course*\_batches*details where student has taken the admission. |
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| 1. Display all students whose marks of ‘BE’ is more than ‘ULKA’ marks in ‘BE’. |
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| 1. Display all students whose marks are more than ‘saleel’ marks in 10th std. |
| select \* from student\_qualifications where marks>(select marks from student\_qualifications where studentId=(select id from student where namefirst="saleel") and name=10) and name=10 ; |
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| 1. Display students whose DOB is as same as ‘kaushal’ |
| select \* from student where dob=(select dob from student where namefirst="kaushal"); |
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| 1. Display all student details who have three or more phone numbers. |
| select \* from student where id in (select studentid from student\_phone group by studentid having count(number)>2); |
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| 1. Display marks for the studentID 1 and 7 who have done ‘BE’. (Note: the marks must be displayed side by side). |
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| 1. Display marks for the studentID 1 and 7 who have done ‘BE’ also fine out the difference of marks between them.   (Note: the marks and difference between the marks must be displayed side by side) |
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| 1. Display all student who are not joined any of the batch. |
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| 1. Display all course\_batches details who are starting on the same day as ‘Batch1’. |
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| 1. Display all students whose 10th marks is more than student ‘Neel’s 10th marks. |
| select \* from student\_qualifications where marks>(select marks from student\_qualifications where studentid=(select id from student where namefirst="neel") and name=10) and name=10; |
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| 1. Get all student with their qualification details who have highest marks in ‘BE’. |
| **select \* from student\_qualifications where id in (select id from student\_qualifications where marks=(select max(marks) from student\_qualifications where name='be')and name="be");** |
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| 1. Get all student with their qualification details who have second highest marks in ‘BE’. |
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| 1. Display the student and student\_qualification details who have scored the maximum marks in ‘BE’ |
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| 1. Display the student details who have scored the maximum marks in ‘BE’ |
| select \* from student\_qualifications where id in (select id from student\_qualifications where marks=(select max(marks) from student\_qualifications where name='be')and name="be"); |
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| 1. Display the student details who have scored the minimum marks in ‘10’ std. |
| select \* from student\_qualifications where id in (select id from student\_qualifications where marks=(select min(marks) from student\_qualifications where name=10)); |
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| 1. Display all student and student\_qualification details of those students who have scored marks more than ‘RAJAN’ in ‘BE’. |
| select \* from student\_qualifications where marks>( select marks from student\_qualifications where studentid=(select id from student where namefirst="rajan") and name="be") and name="be"; |
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| 1. Display all student who have done ‘BE’ in the same year as of studentID 16. |
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| 1. Display all odd records. |
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| 1. Calculate the sum of marks student wise of their qualifications (i.e. 10th, 12th and BE marks) |
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| 1. Display students’ details who are not having ***'Aadhaar'*** card. |
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