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(batchid)as batchcount from batch\_students group by studentid having count(batchid)>2; |
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| 1. Display the student detail who have joined the same batch of the student ‘saleel’. |
| select \* from batch\_students where batchid=(select id from student where namefirst='saleel'); |
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| 1. Display all courses where least number of students have taken the admission. |
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| 1. Display student details who havenot taken the admission. |
| select \* from student where not exists(select false from batch\_students where batch\_students.studentid=student.id); |
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| 1. Get all courses where no modules are defined in course\_modules table. |
| select \* from course where not exists(select false from course\_modules where course\_modules.courseid=course.id); |
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| 1. Display course*\_batches*details where student has taken the admission. |
| select \* from course\_batches where exists( select true from batch\_students where course\_batches.id=batch\_students.studentid); |
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| 1. Display all students whose marks of ‘BE’ is more than ULKA ‘’ marks in ‘BE’. |
| select \* from student\_qualifications where marks>(select marks from student\_qualifications where studentid =(select id from student where namefirst="ulka")and name='be')and name='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 id=(select id from student where namefirst="saleel"))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 studentid from student\_phone group by studentid having count(studentid)>1; |
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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). |
| select marks from student\_qualifications where (studentid=1 and name='be') or (studentid=7 and name='be'); |
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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) |
| select max(case when studentid=1 then marks end)as studentid1, max(case when studentid=7 then marks end)as studentid7,abs(max(case when studentid=1 then marks end)- max(case when studentid=7 then marks end))as difference from student\_qualifications where studentid in(1,7)and name='be'; |
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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’. |
| select \* from course\_batches where starton=(select starton from course\_batches where name='batch1'); |
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| 1. Display all students whose 10th marks is more than student ‘Neel’s 10th marks. |
| select marks from student\_qualifications where id=(select id from student where namefirst='neel'); |
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| 1. Get all student with their qualification details who have highest marks in ‘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’ |
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| 1. Display the student details who have scored the minimum marks in ‘10’ std. |
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| 1. Display all student and student\_qualification details of those students who have scored marks more than ‘RAJAN’ in ‘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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