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’. |
| select \* from student where id in(select studentid from batch\_students where batchid=1); |
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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. |
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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; |
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| 1. Display students whose DOB is as same as ‘kaushal’ |
| select \* from student where dob in(select dob from student where namefirst='kaushal'); |
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| 1. Display all student details who have three or more phone numbers. |
| select s.id, s.namefirst , s.namelast, count(sp.number)>=3 from student s join student\_phone sp on s.id = sp.studentid group by s.id; |
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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  (select max(marks) from student\_qualifications where studentid = 1)as 'studentId 1' ,  (select max(marks) from student\_qualifications where studentid = 7 and name = 'BE')as 'studentId 7'; |
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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 (select max(marks) from student\_qualifications where studentid = 1)as 'studentId 1' ,  (select max(marks) from student\_qualifications where studentid = 7 and name = 'BE')as 'studentId 7',  abs((select max(marks) from student\_qualifications where studentid = 1 and name='BE')  -(select max(marks) from student\_qualifications where studentid = 7 and name = 'BE')) 'Marks Difference'; |
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| 1. Display all student who are not joined any of the batch. |
| select id, namefirst, namelast from student where (id,namefirst,namelast) not in (select s.id,s.namefirst,s.namelast from student s join batch\_students bs on s.id = bs.studentid where batchid is not null); |
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| 1. Display all course\_batches details who are starting on the same day as ‘Batch1’. |
| select name,starton from course\_batches where (name,starton) in( select c1.name, c2.starton from course\_batches c1, course\_batches c2 where c1.starton= c2.starton) limit 2 offset 1; |
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| 1. Display all students whose 10th marks is more than student ‘Neel’s 10th marks. |
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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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