Assignment

Mar23/ DBT/ 011

Database Technologies

Diploma in Advance Computing

March 2023

**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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| * Display all student who have taken admission in more than 2 batches. |
| select \* from student where id in(select studentid from batch\_students group by studentid having count(\*)>2); |
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| * 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 in(select batchid from batch\_students where studentid=(select id from student where namefirst='saleel'))); |
|  |
| * Display all courses where least number of students have taken the admission. |
| select \* from course\_batches where courseid in( select courseid from ( select distinct dense\_rank() over(order by capacity)R1,courseid,capacity from course\_batches)t where r1=1); |
|  |
| * Display student details who havenot taken the admission. |
| select \* from student where id not in( select studentid from batch\_students group by studentid); |
|  |
| * Get all courses where no modules are defined in course\_modules table. |
| select \* from course where not exists (select \* from course\_modules where course.id=course\_modules.courseid);  select \* from course where id not in(select distinct courseid from course\_modules); |
|  |
| * Display course*\_batches*details where student has taken the admission. |
| select \* from course\_batches where id in (select distinct batchid from batch\_students where batch\_students.batchid=course\_batches.id); |
| select \* from course\_batches where id in(select distinct batchid from batch\_students) |
| * Display all students whose marks of ‘BE’ is more than ‘ULKA’ marks in ‘BE’. |
| select \* from student where id in(select studentid 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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| * Display all students whose marks are more than ‘saleel’ marks in 10th std. |
| select \* from student\_qualifications where marks = (select marks from(select \* from student\_qualifications where studentid in( select id from student where namefirst='saleel'))t where name =10); |
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| * 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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| * 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(studentid)>3); |
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| * Display marks for the studentID 1 and 7 who have done ‘BE’. (Note: the marks must be displayed side by side). |
| select studentid,name,marks from student\_qualifications where studentid=1 or studentid=7; |
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| * 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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| * Display all student who are not joined any of the batch. |
| select \* from student where id not in(select distinct studentid from batch\_students ); |
|  |
| * Display all course\_batches details who are starting on the same day as ‘Batch1’. |
| select \* from course\_batches where dayname(starton) = (select dayname(starton) from course\_batches where name='batch1' ); |
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| * Display all students whose 10th marks is more than student ‘Neel’s 10th marks. |
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| * Get all student with their qualification details who have highest marks in ‘BE’. |
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| * Get all student with their qualification details who have second highest marks in ‘BE’. |
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| * Display the student and student\_qualification details who have scored the maximum marks in ‘BE’ |
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| * Display the student details who have scored the maximum marks in ‘BE’ |
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| * Display the student details who have scored the minimum marks in ‘10’ std. |
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| * Display all student and student\_qualification details of those students who have scored marks more than ‘RAJAN’ in ‘BE’. |
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| * Display all student who have done ‘BE’ in the same year as of studentID 16. |
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| * Display all odd records. |
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| * Calculate the sum of marks student wise of their qualifications (i.e. 10th, 12th and BE marks) |
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| * Display students’ details who are not having ***'Aadhaar'*** card. |
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