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 from batch\_students group by studentid having count(STudentID)>1; |
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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 in (select batchId from batch\_students where studentID = (select ID from student where namefirst = 'saleel')); |
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| 1. Display all courses where least number of students have taken the admission. |
| select name from course\_batches where capacity = (select min(capacity) from course\_batches); |
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| 1. Display student details who havenot taken the admission. |
| select \* from student where ID not in (select studentid from batch\_students); |
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| 1. Get all courses where no modules are defined in course\_modules table. |
| select id from course where id not in (select courseid from course\_modules); |
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| 1. Display course*\_batches*details where student has taken the admission. |
| select \* from student where ID not in (select studentid from batch\_students); |
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| 1. Display all students whose marks of ‘BE’ is more than ‘ULKA’ marks in ‘BE’. |
| select \* from student\_qualifications where name = 'BE' and marks >=(select marks from student\_qualifications where name = 'BE' and studentid =(select id from student where namefirst = 'ULKA')); |
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| 1. Display all students whose marks are more than ‘saleel’ marks in 10th std. |
| select \* from student\_qualifications where name = 10 and marks>(select marks from student\_qualifications where name = 10 and StudentId = (select id from student where namefirst = 'saleel')); |
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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 = (select StudentID from student\_phone group by studentid having count(studentid)>3); |
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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 MAX(CASE WHEN studentid = 1 THEN marks END) AS Marks\_Student\_1,MAX(CASE WHEN studentid = 7 THEN marks END) AS Marks\_Student\_7 from student\_qualifications where name = 'BE' and (studentid=1 or 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 SUM(CASE WHEN studentid = 1 THEN marks END) AS M1,SUM(CASE WHEN studentid = 7 THEN marks END) AS M7,MAX(CASE WHEN studentid = 1 THEN marks - when studentid = 7 then marks END )as difference from student\_qualifications where name = 'BE' and (studentid=1 or studentid = 7); |
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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. |
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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. |
| select \* from student\_qualifications where name='BE' and year=(select year from student\_qualifications where studentid = 16 and name= 'BE'); |
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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. |
| SELECT \* FROM STUDENT\_cards WHERE STUDENTID Not IN (SELECT STUDENTID FROM STUDENT\_CARDS WHERE NAME = 'AADHAAR'); |
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