Task on Sub-queries with joins

**Sub-queries with joins.**

1. Display all student who have taken admission in more than 2 batches.
2. Display the student detail who have joined the same batch of the student ‘saleel’.
3. Display all courses where least number of students have taken the admission.
4. Display student details who haven’t taken the admission.
5. Get all courses where no modules are defined in course\_modules table.
6. Display course*\_batches*details where student has taken the admission.
7. Display all students whose marks of ‘BE’ is more than ‘ULKA’ marks in ‘BE’.
8. Display all students whose marks are more than ‘saleel’ marks in 10th std.
9. Display students whose DOB is as same as ‘kaushal’
10. Display all student details who have three or more phone numbers.
11. 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).
12. Display all student who are not joined any of the batch.
13. Display all course\_batches details who are starting on the same day as ‘Batch1’.
14. Display all students whose 10th marks is more than student ‘Neel’s 10th marks.
15. Get all student with their qualification details who have highest marks in ‘BE’.
16. Get all student with their qualification details who have second highest marks in ‘BE’.
17. Display the student and student\_qualification details who have scored the maximum marks in ‘BE’
18. Display the student details who have scored the maximum marks in ‘BE’
19. Display the student details who have scored the minimum marks in ‘10’ std.
20. Display all student and student\_qualification details of those students who have scored marks more than ‘RAJAN’ in ‘BE’.
21. Display all student who have done ‘BE’ in the same year as of studentID 16.
22. Display all odd records.
23. Calculate the sum of marks student wise of their qualifications (i.e. 10th, 12th and BE marks)
24. Display students’ details who are not having ***'Aadhaar'*** card.

Answers:

1. select \* from student where ID IN(select studentID from batch\_students group by studentID having count(batchID)>2);
2. 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')));
3. select \* from course where id in (select courseID from course\_batches where id in (select batchID from batch\_students group by batchID having count(studentID) = (select min(student\_count) from (select count(studentID) as student\_count from batch\_students group by batchID) as temp)));
4. select \* from student where id not in (select distinct studentID from batch\_students);
5. select \* from course where id not in (select courseID from course\_modules);
6. select \* from course\_batches where id in (select batchID from batch\_students);
7. select \* from student where id in (select studentID from student\_qualifications where name = 'BE' and cast(marks as unsigned) > (select cast(marks as unsigned) from student\_qualifications where studentID = (select id from student where namefirst = 'ulka') and name = 'BE'));
8. select \* from student where id in (select studentID from student\_qualifications where name = '10' and cast(marks as unsigned) > (select cast(marks as unsigned) from student\_qualifications where studentID = (select id from student where namefirst = 'saleel') and name = '10'));
9. select \* from student where dob = (select dob from student where namefirst = 'kaushal');
10. select \* from student where id in (select studentID from student\_phone group by studentID having count(\*) >= 3);
11. nil
12. select \* from student where id not in (select distinct studentID from batch\_students);
13. select \* from course\_batches where starton = (select starton from course\_batches where name = 'Batch1');
14. select \* from student where id in (select studentID from student\_qualifications where name = '10' and cast(marks as unsigned) > (select cast(marks as unsigned) from student\_qualifications where studentID = (select id from student where namefirst = 'neel') and name = '10'));
15. select \* from student s join student\_qualifications q on [s.id](http://s.id) = q.studentID where [q.name](http://q.name) = 'BE' and cast(q.marks as unsigned) = (select max(cast(marks as unsigned)) from student\_qualifications where name = 'BE');
16. select \* from student s join student\_qualifications q on [s.id](http://s.id) = q.studentID where [q.name](http://q.name) = 'BE' and cast(q.marks as unsigned) = (select max(cast(marks as unsigned)) from student\_qualifications where name = 'BE' and cast(marks as unsigned) < (select max(cast(marks as unsigned)) from student\_qualifications where name = 'BE'));
17. select \* from student s join student\_qualifications q on [s.id](http://s.id) = q.studentID where [q.name](http://q.name) = 'BE' and cast(q.marks as unsigned) = (select max(cast(marks as unsigned)) from student\_qualifications where name = 'BE');
18. select \* from student where id in (select studentID from student\_qualifications where name = 'BE' and cast(marks as unsigned) = (select max(cast(marks as unsigned)) from student\_qualifications where name = 'BE'));
19. select \* from student where id in (select studentID from student\_qualifications where name = '10' and cast(marks as unsigned) = (select min(cast(marks as unsigned)) from student\_qualifications where name = '10'));
20. select \* from student s join student\_qualifications q on [s.id](http://s.id) = q.studentID where [q.name](http://q.name) = 'BE' and cast(q.marks as unsigned) > (select cast(marks as unsigned) from student\_qualifications where studentID = (select id from student where namefirst = 'rajan') and name = 'BE');
21. select \* from student where id in (select studentID from student\_qualifications where name = 'BE' and year = (select year from student\_qualifications where studentID = 16 and name = 'BE'));
22. select \* from student where mod(id, 2) = 1;
23. select studentID, sum(cast(marks as unsigned)) as total\_marks from student\_qualifications where name in ('10', '12', 'BE') group by studentID;
24. select \* from student where id not in (select studentID from student\_cards where name = 'Aadhaar');