DBT Problem Solving - Set - 016

***Consider the following relations***

***author {authorID, name, surname}***

***books {bookID, name, pagecount, point, authorID, typeID}***

***students {studentID, name, surname, birthdate, gender, class, point}***

***borrows {borrowid, studentID, bookID, takenDate, broughtDate}***

***types {typeID, name}***

**Given the above relations solve the following queries.**

1. Write a query to display the total point of all students.
2. Write a query to display the minimum value of pagecount column.
3. Write a query to display all students whose have born in the month of 'July'.
4. Write a query to display all students name and takendate who have taken the book in the month of 'December'.
5. Write a query to display the class names and student count of each class. Give heading StudentCount to appropriate column.
6. Write a query to display the numbers of boys and girls in each class. Give heading StudentCount to appropriate column.
7. Write a query to display only the number of female students in each class. . Give heading StudentCount to appropriate column.
8. Write a query to display the class names and number of students which the number of students more than 30. . Give heading StudentCount to appropriate column.
9. Write a query to display the name and surname of the students and the number of books they read. Give heading BookCount to appropriate column.
10. Write a query to display the name and surname of the students and the number of books they read sorted by BookCount. Give heading BookCount to appropriate column.
11. Write a query to display the students information along with its borrows information. Also list the students who have never read a book.
12. Write a query to display the student who have not taken an book.
13. Write a query to display the student names who have borrowed more than 55 books.
14. Write a query to display the count of students who have not taken any book.
15. Write a query to display how many books were issued in the month of 'May'.

Answers Set – 016:

1. **select sum(point) from students;**
2. **select min(pagecount) from books;**
3. **select \* from students where date\_format(birthdate, '%M') = 'July';**
4. **select students.name, takendate from students, borrows where students.studentId = borrows.studentId and date\_format(takendate, '%M') = 'December';**
5. **select class, count(\*) as “Student Count” from students group by class**
6. **select class, gender, count(\*) as “Student Count” from students group by gender, class order by class;**
7. **select class, gender, count(\*) as "Student Count" from students where gender = 'F' group by gender, class order by class;**
8. **select class, count(\*) as “Student Count” from students group by class having count(\*) >= 30;**
9. **select name, surname, count(\*) ” Book Count” from students, borrows where students.studentId = borrows.studentId group by name, surname;**
10. **select name, surname, count(\*) BookCount from students, borrows where students.studentId = borrows.studentId group by name, surname order by BookCount;**
11. **select \* from students left outer join borrows on students.studentId = borrows.studentId order by students.studentId desc;**
12. **select \* from students WHERE not exists (select \* from borrows where students.studentId = borrows.studentId);**
13. **select students.name, count(\*) from students, borrows where students.studentId = borrows.studentId group by students.name having count(\*) > 55;**
14. **select count(\*) from students where not exists (select \* from borrows where students.studentId = borrows.studentId);**
15. **select count(\*) from borrows where date\_format(borrows.takenDate, '%M') = 'May';**