DBT Problem Solving - Set - 015

***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 students with student numbers 1, 7, 11 and 17 in the student table.
2. Write a query to display students whose studentID is odd.
3. Write a query to display students whose studentID is odd and name contains "a" character.
4. Write a query to display male students according to their names is ascending order.
5. Write a query to display all students in randomly ordered.
6. Write a query to display all male students in randomly ordered.
7. Write a query to display the book with the most page number.
8. Write a query to display all students name, surname from students table and takenDate from borrows table.
9. Write a query to display all students name, surname, the name of the taken book and the taken date.
10. Write a query to display all students name, surname, the name of the taken book, the taken date and the book's type.
11. Write a query to display all students name, surname, the name of the taken book, the taken date, the book's type and the name and surname of the author.
12. Write a query to display all students name, surname, the name of the taken book, the name of the book type and the taken time from 11B class.
13. Write a query to display all female students name, surname, the name of the taken book and the taken time from 11B class.
14. Write a query to display the count of students.
15. Write a query to display the total page count for all books.

Answers Set – 015:

1. **select \* from student where studentId in (1, 7, 11, 17);**
2. **select \* from students where studentId % 2 = 1;**
3. **select \* from student where name like 'a%' and studentId % 2 = 1;**
4. **select \* from students where gender = 'M' order by name;**
5. **select \* from students order by rand();**
6. **select \* from students where gender = 'M' order by rand();**
7. **select \* from books where pagecount=(select max(pagecount) from books);**
8. **select name, surname, takenDate from students, borrows where students.studentId = borrows.studentId;**
9. **select students. name, students.surname, books.name, takenDate from students, borrows, books where students.studentId = borrows.studentId and books.bookId = borrows.bookId;**
10. **select students.name, students.surname, books.name, takenDate, types.name from students, borrows, books, types where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId;**
11. **select students.name, students.surname, books.name, takenDate, types.name, authors.name, authors.surname from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and authors.authorId = books.authorId;**
12. **select students.name, students.surname, books.name, takenDate, types.name from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and class='11B';**
13. **select students.name, students.surname, books.name, takenDate from students, borrows, books, types, authors where students.studentId = borrows.studentId and books.bookId = borrows.bookId and books.typeId = types.typeId and class='11B' and gender='F';**
14. **select count(\*) from students;**
15. **select sum(pagecount) from books;**