SQL SELECT QUERIES & AGGREGATE FUNCTIONS

ANSWER ALL QUESTIONS

1. Create the following tables with suitable constraints:
   a. STUDENT (REG_NO, NAME, GENDER, AGE, DEPTID, SEMESTER). Make REG_NO as the primary key and DEPTID as foreign key to DEPARTMENT table. NAME cannot be null.
   b. DEPARTMENT (DEPT_ID, DEPT_NAME, STUDENT_CNT). Make DEPT_ID as the primary key and DEPT_NAME cannot be null.
2. Insert suitable records into the STUDENT & DEPARTMENT tables.
3. Retrieve all the details of department table.
4. Fetch the names of all departments that exists in your college.
5. Fetch the department id and department name of all departments.
6. Retrieve the registration number and names of students belonging to CSE department.
7. Retrieve the registration number and names of female students belonging to CSE department.
8. Find the number of male students belonging to CSE department.
9. Retrieve the registration number and names of students whose age is > 19.
10. List the names of students whose names start with letter 'A'.
11. List the names of students whose names end with letter 'a'.
12. List the names of students whose names contain the letter 'm'.
13. List the names of students whose names contain the letter 'm' but not at the start or at the end of their names.
14. List the registration numbers and names of students belonging to ECE & EEE departments.
15. What is the maximum count of students in a department?
16. What is the minimum count of students in a department?
17. What is the average student count per department in your college?
18. List the students who study 3rd year in your college using Between.

19. List the different departments which have students.
20. Display the count of students enrolled in CSE department;
21. Display the contents of courses table in ascending order of Students count.
22. Display the contents of courses table in descending order of Students count.
23. Determine the average student count across courses run by each department.

NOTE: While creating any new table suffix your registration number along with it.
Eg: STUDENT_21BIA1234. DEPARTMENT_21BIA1234