

EXERCISE 4: SQL SELECT QUERIES & AGGREGATE FUNCTIONS

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Slot: L43+L44

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ANSWER ALL QUESTIONS

- 1. Create the following tables with suitable constraints:
 - a. STUDENT (REG_NO, NAME, GENDER, AGE, DID,SEMESTER). Make REG_NO as the primary key and DID 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_19MIS1234. DEPARTMENT_12345