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### Lab Report - 01

### 1.1 Counting the Number of Students with a GPA of 3.5 or Higher

#### . Introduction

This query aims to find that the number of students achieving a GPA of 3.5 or higher.

### . Objectives

• .Counting how many students get a GPA of 3.5 or above.

### . Query

```
SELECT COUNT(*) AS student count FROM students
WHERE GPA 3.5;
```

### . Output



# 1.2 Calculating the Average GPA of All Students

#### . Introduction

This query aims to calculates the average GPA of all students in a class. The process involves taking input for individual GPAs, summing them up, and dividing by the total number of students.

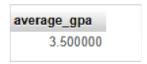
### . Objectives

• To compute the average GPA of a group of students.

### .Query

```
SELECT AVG(GPA) AS average gpa
FROM students;
```

### .Output



### 1.3 Retrieving Students from the Computer Science Department

#### . Introduction

This query aims to find that retrieves and displays information about students who belong to the Computer Science department. This query helps in efficiently filtering and managing department-specific data.

### . Objectives

- To filter and retrieve student data based on the department field.
- To provide a programmatic solution for department-specific data management.

### .Query

SELECT student id, student name, department, GPA

FROM students

WHERE department = 'Computer Science';

### .Output



## 1.4Finding Students Whose Names End with 'th'

#### . Introduction

In data management, pattern matching in names is a common task for sorting or filtering information, This query searches for and retrieves the names of students ending with the suffix 'th'. Such a feature is useful for creating specific lists or performing targeted analysis.

### . Objectives

- To design a program that filters student names ending with the suffix 'th'.
- To enhance data filtering capabilities in a student management system.

### .Query

SELECT student id, student name

FROM students

WHERE student name LIKE '%th';

### .Output

