

## Department of Computer Science and Engineering, Anna University, Chennai- 600025 CS6106 – Database Management System (R 2018) Practical Jan- May 2023

Year/Sem/Batch: II/IV/ N & Q

Exercise: 2

## SQL Simple Queries

27- Feb- 2023

## Observation (5 Marks)

- 1. Write the syntax and example for the following operators
  - a. Arithmetic
  - b. Comparison
  - c. Logical
- 2. Write the syntax and example of the following functions (Excluded in Exercise 5)
  - a. Aggregate
  - b. Date & Time
  - c. String
  - d. Numeric

## Execution (15 Marks) - Use the updation and Modification as and when required

- 1. Retrieve number of faculties in each department
- 2. Retrieve distinct number of faculties in each department
- 3. Retrieve total salary of faculty group by faculty name and count similar names
- 4. Retrieve total salary of faculty which is greater than 100000
- 5. Display name of faculty in descending order
- 6. Display the details of faculty whose name is "Any Name" and salary is greater than 50000.
- 7. Retrieve average salary of all faculties
- 8. How the resulting salaries if every employee working on the "CSE" department is given 10 percent raise.
- 9. Find the sum of salaries of all faculties of CSE department as well as the maximum salary, the minimum salary and average salary in this department.
- Retrieve the name of each employee controlled by CSE department(use Exists operator)
- 11. Retrieve the name of the faculty who born in the year 1990
- 12. Retrieve the list of faculties whose salary is between 50000 and 100000
- 13. List the student details except CSE department
- 14. List the professor details who are in CSE department.
- 15. List the number of students in CSE department.
- 16. List the student topper details in CSE department.
- 17. Update the total mark obtained by each student and store in new column.

- 18. Sum the course credits of each course by course type.
- 19. Perform the following
  - a. Retrieve the first three characters of student name
  - b. Retrieve middle three character of student name.
  - c. Retrieve last three characters of student name
  - d. Display the faculty name in upper case, lowercase
- 20. Perform the following
  - a. Retrieve the year of birth of each faculty.
  - b. List the faculty details who born in the month of April.
  - c. Display the details of faculties whose age is between 50 and 60.
  - d. List the average age of faculty in CSE department.