

**CIS 11051 – PRACTICAL FOR DATABASE DESIGN**  
**DEPARTMENT OF ICT**  
**FACULTY OF TECHNOLOGY**  
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**Lab Sheet: 06 – Part 2**

**Date:**

**Title: Operators in MySQL.**

**Aims:** To use appropriate operators in MySQL Queries

**Task 1:**

1. Create a database and insert the following data into the table  
Table Name: **employees**

employee_id	name	department	salary
1	John Doe	Marketing	50000
2	Jane Smith	Engineering	60000
3	Sam Brown	HR	55000
4	Emma White	Engineering	65000
5	Michael Green	Marketing	45000

- a. Select all the employee's details.
- b. Update the salary of the employee with employee\_id = 3 to 60000.
- c. Update the department of the employee with employee\_id = 2 to 'Sales'.
- d. Change the salary of the employee with employee\_id = 1 to 55000.
- e. Set the department of the employee with employee\_id = 4 to 'Management'.
- f. Increase the salary by 10% for all employees in the 'Engineering' department.
- g. Update the salary and department of the employee with employee\_id = 5 to 48000 and 'Sales' respectively.
- h. Set the name and salary of the employee with employee\_id = 2 to 'Sophia Lee' and 70000 respectively.

- i. Change the name and department of the employee with employee\_id = 4 to 'Lucas Turner' and 'Operations'.
  - j. Update the salary and name of the employee with employee\_id = 3 to 62000 and 'Samuel Brown' respectively.
  - k. Increase the salary of all employees in the 'Marketing' department by 5000 and update their department name to 'Advertising'.
  - l. Delete the record of the employee with employee\_id = 1 from the employees table.
  - m. Delete all employees in the 'HR' department from the employees table.
2. Create sales table that shows below

sale_id	product_name	quantity	sale_date
1	Laptop	2	2025-03-01
2	Smartphone	5	2025-03-02
3	Laptop	2	2025-03-01
4	Tablet	3	2025-03-03
5	Smartphone	5	2025-03-02

- a. Write a query to remove duplicates for product\_name and sale\_date in the sales table

## Discussion

- What will happen if we choose **sale\_id, product\_name and sales\_date** with **DISTINCT** keyword?