**DML Trigger Task:**

**Lab Tasks:**

* Create a trigger that automatically updates an employee’s bonus table when a new record is added to the employees table. The bonus is set to 10% of the inserted salary. Create a table employee\_bonus and populate it on each insert command.
* Create a trigger that checks the new salary value being updated in the employees table. If the new salary is greater than a threshold (say 10,000), display an error message to the user.
* Create a trigger that logs every deleted record from the Employees table into a Deleted\_Employees\_Log table.
* Create a trigger that logs the old and new values of a salary whenever an UPDATE occurs in the employees table.

## DDL Trigger Tasks:

* + Create a trigger that logs every new table created in the database into an Audit\_Log table, including the table name, creation time and user name.
  + Create a trigger that prevents changes (ALTER statements) to the employees table after business hours (e.g., 6 PM to 8 AM).
  + Create a trigger that logs every DROP operation on any table in the database to a Drop\_Log table, recording the user who performed the action and the time it occurred.
  + Create a trigger that prevents dropping the Audit\_Log table under any circumstance and display a warning message instead.

## System/Database Trigger Task:

* + Create a trigger that logs the time and status when the database starts into a System\_Logs table.
  + Create a trigger that tracks the login attempts of users and logs unsuccessful attempts into a Failed\_Logins table.
  + Create a trigger that logs every successful logout along with the session duration into a User\_Activity\_Log table.

## Instead of Trigger Task:

* + Create a view that joins Employees and Departments, and write an INSTEAD OF INSERT trigger that correctly distributes new data into both the Employees and Departments tables.
  + Create a view that shows employee salaries, and write an INSTEAD OF UPDATE trigger to prevent any salary updates that reduce the employee’s salary by more than 20%.