

Assignment 5 Triggers

1. Trigger for updating product quantity after a sale

Problem Statement: Create a trigger that updates the quantity of a product in the products table every time a sale is made in the sales table. After a sale, the quantity of the product should decrease based on the quantity sold.

2. Trigger to log changes in the products table

Problem Statement: Create a trigger that inserts a new record into the audit_log table whenever the quantity or price of a product in the products table is updated. The trigger should store the old value, new value, and the table affected.

3. Trigger to prevent sales if the product is out of stock

Problem Statement: Create a trigger that prevents a sale from being recorded in the sales table if the quantity_sold is greater than the available quantity in the products table. If the sale is attempted, the trigger should raise an error or block the transaction.

4. Trigger to log sales in the audit_log table

Problem Statement: Create a trigger that inserts a new record into the audit_log table whenever a new sale is recorded in the sales table. The record should include the action type (e.g., 'INSERT'), the table name ('sales'), and the details of the sale (including product_id, quantity_sold, and sale_date).