

**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES
COLLEGE OF COMPUTER AND INFORMATION SCIENCES**



SQL Triggers

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Triggers

Triggers

A trigger in SQL is a special type of stored procedure. It is automatically executed when a specific event occurred in the database.

Applications:

Updating
other tables

Sending
notifications

Logging
information.



Triggers

Every time a new order is inserted into the table, an order logs should be recorded in another table.

order_id	customer_id	order_date	total_amount
1	1	2020-01-01	100.00
2	2	2021-06-02	200.00
3	4	2021-06-03	300.00
4	4	2022-05-04	400.00
5	2	2022-07-05	500.00
6	6	2023-01-06	600.00
7	6	2023-02-07	700.00
8	8	2023-02-08	800.00
9	10	2023-02-09	900.00
10	10	2023-02-10	1000.00


[illegible]



Triggers



```
CREATE TRIGGER trigger_name  
AFTER/BEFORE INSERT/UPDATE/DELETE ON orders  
FOR EACH ROW  
BEGIN  
    Code to be executed  
END;
```



Triggers

```
CREATE TRIGGER orders_insert_trigger  
AFTER INSERT ON orders  
FOR EACH ROW  
BEGIN
```

```
    INSERT INTO order_logs (order_id, log_date, message)  
    VALUES (NEW.order_id, DATE(), 'New order added');
```

```
END;
```

```
INSERT INTO orders (order_id, customer_id, order_date, total_amount)  
VALUES (11, 2, DATE(), 160.00);
```



Exercise



Create a trigger when the record from orders table get updated. For example, when the total amount of certain customer is changed/updated.

