EASTERN INTERNATIONAL UNIVERSITY **Practice Assignment – Quarter 4, 2022-2023**

**SCHOOL OF COMPUTING Course Name:** Database

**AND INFORMATION TECHNOLOGY** **Course Code:** CSE 301

🙙🕮🙛 **Student’s Full Name:**

**Student ID:**

**Practice Assignment 8**

***Instruction*:**

*\* Students are allowing to write their answers (like SQL queries, Screen shot of outputs, etc.) in word file (Answer sheet) provided by instructor. After finishing the assignment, students must convert the word file (Answer sheet) into a PDF file. Finally, students upload the file in Moodle.*

1. TRIGGER (when an event happens, do something ex (insert, update, delete) checks data, handles errors, auditing tables)

There are six types of row-level triggers in MySQL. They are:

* Before Insert Trigger
* After Insert Trigger
* Before Update Trigger
* After Update Trigger
* Before Delete Trigger
* After Delete Trigger

**Syntax**:

|  |
| --- |
| CREATE TRIGGER trigger\_name  {BEFORE | AFTER} {INSERT | UPDATE | DELETE}  ON table\_name  FOR EACH ROW  BEGIN  -- Trigger body (SQL statements)  END;  DROP TRIGGER [IF EXISTS] [schema\_name.]trigger\_name; |

1. Create a trigger before\_total\_quantity\_update to update total quantity of product when Quantity\_On\_Hand and Quantity\_sell change values. Then Update total quantity when Product P1004 have Quantity\_On\_Hand = 30, quantity\_sell =35.
2. Create a trigger before\_remark\_salesman\_update to update Percentage of per\_remarks in a salesman table (will be stored in PER\_MARKS column) : per\_remarks = target\_achieved\*100/sales\_target.
3. Create a trigger before\_product\_insert to insert a product in product table.
4. Create a trigger to before update the delivery status to "Delivered" when an order is marked as "Successful".
5. Create a trigger to update the remarks "Good" when a new salesman is inserted.
6. Create a trigger to enforce that the first digit of the pin code in the "Clients" table must be 7.
7. Create a trigger to update the city for a specific client to "Unknown" when the client is deleted
8. Create a trigger after\_product\_insert to insert a product and update profit and total\_quantity in product table.
9. Create a trigger to update the delivery status to "On Way" for a specific order when an order is inserted.
10. Writing Function Stored:

**Hàm đơn trị**

**CREATE FUNCTION** name\_function (Var)

**RETURNS** data\_type

**DETERMINISTIC**

**BEGIN**

Statement SQL

**RETURN** value

**END**

1. Find the average salesman’s salary.
2. Find the name of the highest paid salesman.
3. Find the name of the salesman who is paid the lowest salary.
4. Determine the total number of salespeople employed by the company.
5. Compute the total salary paid to the company's salesman.
6. Find Clients in a Province
7. Calculate Total Sales
8. Calculate Total Order Amount