PL/SQL

Create a PL/SQL block which displays the list of customers (all the informations)

```
BEGIN

SELECT * FROM CUSTOMERS

END;
/
```

Create a Procedure PS_Customer_Prodcuts which displays the list of product names of a given customer (customer_id). If no result returned (No_Data_Found exception raised), display the following message "No products returned or customer not found"

```
CREATE OR REPLACE PROCEDURE PS_Customer_Product(v_customer_id Orders.customer_id %type) IS

CURSOR cur IS SELECT customer_name FROM CUSTOMER WHERE custumoer_id = v_customer_id

BEGIN

FOR rec IN cur LOOP

Dbms.output.put_line(rec);

END LOOP;

EXCEPTION

WHEN NO_DATA_FOUND THEN

Dbms_output.put_line('No customer found !');

END;

/
```

Create a Function FN_Customer_Orders which returns the number of orders of a given customer (customer_id).

```
CREATE OR REPLACE FUNCTION FN_Customer_Orders (v_cust_id CUSTOMER.customer_id %type) RETURN number IS

nb_orders number;

BEGIN

SELECT COUNT(*) INTO nb_orders FROM ORDERS WHERE customer_id = v_cust_id;
```

```
RETURN nb_orders;
END;
/
```

Create a trigger TRIG_INS_ORDERS which starts before each INSERT on Orders tables and test if the OrderDate >= SYSDATE. If not the following message is displayed "Order Date must be greater than or equal to today's date"

```
CREATE TRIGGER TRIG_INS_ORDERS

BEFORE INSERT ON ORDERS

BEGIN

INSERT INTO log(table_name, v_date, action)

VALUES ('ORDERS' , SYSDATE ,

IF OrderDate>= SYSDATE THEN INSERT ON ORDERS

ELSE RAISE excp);

EXCEPTION

WHEN excp THEN

dbms_output.put_line("Order Date must be greater than or equal to today's date");

END;
```