Name: Dev Jatinbhai

Patel Roll No: CE076

Id No: 20CEUOS018

DBMS LAB 9

1. Create a trigger product\_i, which should ensure that the product\_no given at the time of insertion, in sales\_order\_details should be present in product master.

# PL/SQL:

CREATE OR REPLACE TRIGGER product\_i BEFORE INSERT ON sales\_order\_details FOR EACH ROW

**DECLARE** 

C NUMBER(2); BEGIN

SELECT COUNT(\*) into C FROM product\_master WHERE product\_master.product\_no = :new.product\_no;

IF (C=0) THEN

dbms\_output.put\_line('product no is not present in product\_master'); END IF;

END;

```
insert into sales_order_details values('019001','P00002',2,2,530);

Script Output *  sod *  po *

Trigger PRODUCT_I compiled

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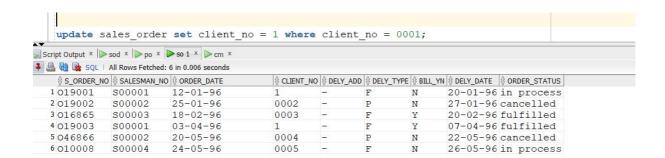
product no is not present in product_master
```

2. Create a trigger sales\_u, which should ensure that if client\_no or s\_order\_no is modified in the sales\_order table it should do the corresponding changes in the other tables. PL/SQL:

```
CREATE OR REPLACE TRIGGER sales_u AFTER
UPDATE OF client_no, s_order_no ON sales_order FOR EACH ROW
```

#### **BEGIN**

```
UPDATE client_master SET client_no = :new.client_no WHERE client_no = :old.client_no;
UPDATE s_order_details SET s_order_no = :new.s_order_no WHERE s_order_no = :old.s_order_no;
END;
```



3. Create a trigger sales\_u1, which should ensure that if s\_order\_no is modified in sales\_order\_details table then it should not allow it and display an error message. PL/SQL:

```
create or replace trigger sales_u1 before update of s_order_no on sales_order_details for each row
```

## begin

RAISE\_APPLICATION\_ERROR(-20001, 'order\_no modification is not allowed'); end;

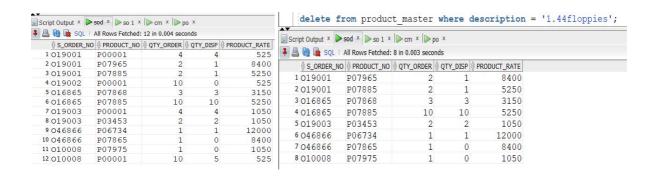
4. Create a trigger product\_d, which should ensure that if a product is deleted from product\_master table all corresponding entries should be removed from the sales\_order\_details table.

### PL/SQL:

create or replace trigger product\_d after delete on product\_master

for each row begin

delete from sales\_order\_details where product\_no = :old.product\_no;
delete from challan\_details where product\_no = :old.product\_no; end;



## 5. Write down one trigger example. PL/SQL:

create or replace trigger qtn\_reminder before update of qty\_on\_hand on product\_master for each row begin

if(:new.qty\_on\_hand < 5) then
dbms\_output.put\_line('now, you have less than 5 quantity for this product'); end if;</pre>

end;

Thank you.....