# **Group No** :- 18

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**Lab No**.:- 11(15-11-2021)

# Dairy product management system

## **Triggers:**

# **❖** Trigger 1 :

SET SEARCH PATH TO DAIRY MANAGEMANT SYSTEM;

CREATE FUNCTION BILLING() RETURNS TRIGGER AS \$A\$

**DECLARE** 

R1 RECORD;

R2 RECORD;

NUM INTEGER;

**BEGIN** 

IF TG\_OP='DELETE' OR TG\_OP='UPDATE' THEN

SELECT P\_UNIT\_PRICE, P\_TAX, P\_PROFIT, P\_QUANTITY INTO R1

FROM PRODUCT WHERE PRODUCT ID=OLD.I PRODUCT ID;

R1.P\_UNIT\_PRICE=R1.P\_UNIT\_PRICE\*OLD.I\_QUANTITY; R1.P\_TAX=R1.P\_TAX\*OLD.I\_QUANTITY; R1.P\_PROFIT=R1.P\_PROFIT\*OLD.I\_QUANTITY;

UPDATE BILL SET

B\_TOTAL\_AMOUNT=B\_TOTAL\_AMOUNT-R1.P\_UNIT\_PRICE,
B\_TOTAL\_TAX=B\_TOTAL\_TAX-R1.P\_TAX
WHERE BILL ID=OLD.I BILL ID;

UPDATE TRANSPORT SET

T\_TOTAL\_AMOUNT=T\_TOTAL\_AMOUNT-R1.P\_UNIT\_PRICE

WHERE T\_BILL\_ID=OLD.I\_BILL\_ID;

UPDATE PRODUCT SET
P\_QUANTITY=P\_QUANTITY+OLD.I\_QUANTITY
WHERE PRODUCT ID=OLD.I PRODUCT ID;

SELECT O\_CODE, B\_DATE INTO R2 FROM BILL WHERE BILL\_ID=OLD.I\_BILL\_ID;

UPDATE SELLING\_REPORT SET
SR TOTAL QUANTITY=SR TOTAL QUANTITY-OLD.I QUANTITY,

SR\_TOTAL\_AMOUNT=SR\_TOTAL\_AMOUNT-R1.P\_UNIT\_PRICE, SR\_TOTAL\_PROFIT=SR\_TOTAL\_PROFIT-R1.P\_PROFIT WHERE SR\_DATE=R2.B\_DATE AND

SR\_PRODUCT\_CODE=OLD.I\_PRODUCT\_ID AND SR\_OUTLET\_CODE=R2.O\_CODE; RAISE NOTICE 'DELETE';

END IF;

IF TG\_OP='INSERT' OR TG\_OP='UPDATE' THEN

SELECT P\_UNIT\_PRICE , P\_TAX , P\_PROFIT, P\_QUANTITY INTO R1

FROM PRODUCT WHERE PRODUCT ID=NEW.I PRODUCT ID;

IF R1.P\_QUANTITY<NEW.I\_QUANTITY THEN
RAISE EXCEPTION 'INVALIDE QUANTITY';
END IF;

R1.P\_UNIT\_PRICE=R1.P\_UNIT\_PRICE\*NEW.I\_QUANTITY; R1.P\_TAX=R1.P\_TAX\*NEW.I\_QUANTITY; R1.P\_PROFIT=R1.P\_PROFIT\*NEW.I\_QUANTITY;

UPDATE BILL SET

B\_TOTAL\_AMOUNT=B\_TOTAL\_AMOUNT+R1.P\_UNIT\_PRICE,
B\_TOTAL\_TAX=B\_TOTAL\_TAX+R1.P\_TAX

WHERE BILL\_ID=NEW.I\_BILL\_ID;

UPDATE TRANSPORT SET

T\_TOTAL\_AMOUNT=T\_TOTAL\_AMOUNT+R1.P\_UNIT\_PRICE

WHERE T\_BILL\_ID=NEW.I\_BILL\_ID;

UPDATE PRODUCT SET
P\_QUANTITY=P\_QUANTITY-NEW.I\_QUANTITY
WHERE PRODUCT\_ID=NEW.I\_PRODUCT\_ID;

SELECT O\_CODE, B\_DATE INTO R2 FROM BILL WHERE BILL\_ID=NEW.I\_BILL\_ID;

SELECT COUNT(\*) INTO NUM FROM SELLING\_REPORT
WHERE SR\_DATE=R2.B\_DATE AND
SR\_PRODUCT\_CODE=NEW.I\_PRODUCT\_ID AND SR\_OUTLET\_CODE=R2.O\_CODE;

IF NUM=0 THEN

INSERT INTO SELLING\_REPORT VALUES (NEW.I\_QUANTITY,R1.P\_UNIT\_PRICE,R1.P\_PROFIT,R2.B\_DATE,NEW.I\_PRODUCT\_I D,R2.O\_CODE);

RAISE NOTICE 'INSERT';

**ELSE** 

UPDATE SELLING\_REPORT SET

SR\_TOTAL\_QUANTITY=SR\_TOTAL\_QUANTITY+NEW.I\_QUANTITY,

SR\_TOTAL\_AMOUNT=SR\_TOTAL\_AMOUNT+R1.P\_UNIT\_PRICE, SR\_TOTAL\_PROFIT=SR\_TOTAL\_PROFIT+R1.P\_PROFIT WHERE SR\_DATE=R2.B\_DATE AND

SR\_PRODUCT\_CODE=NEW.I\_PRODUCT\_ID AND SR\_OUTLET\_CODE=R2.O\_CODE; RAISE NOTICE 'UPDATE';

END IF;

END IF;

RETURN NULL;

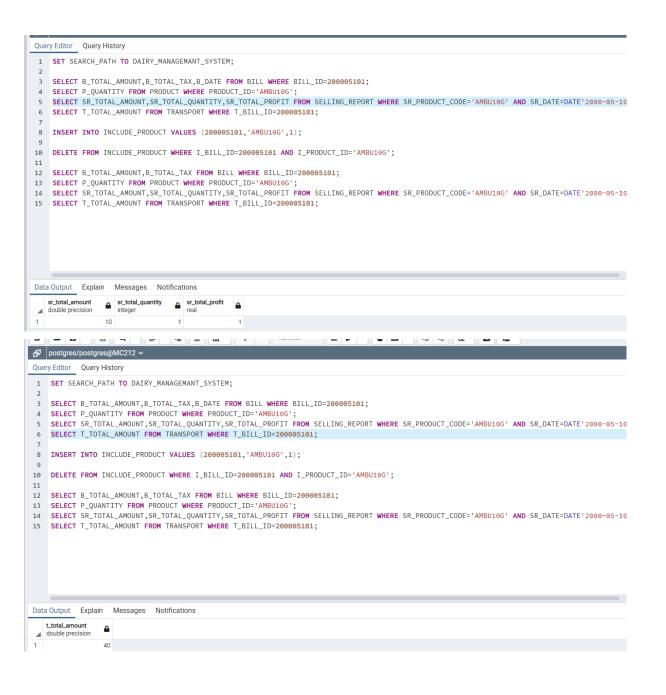
END;

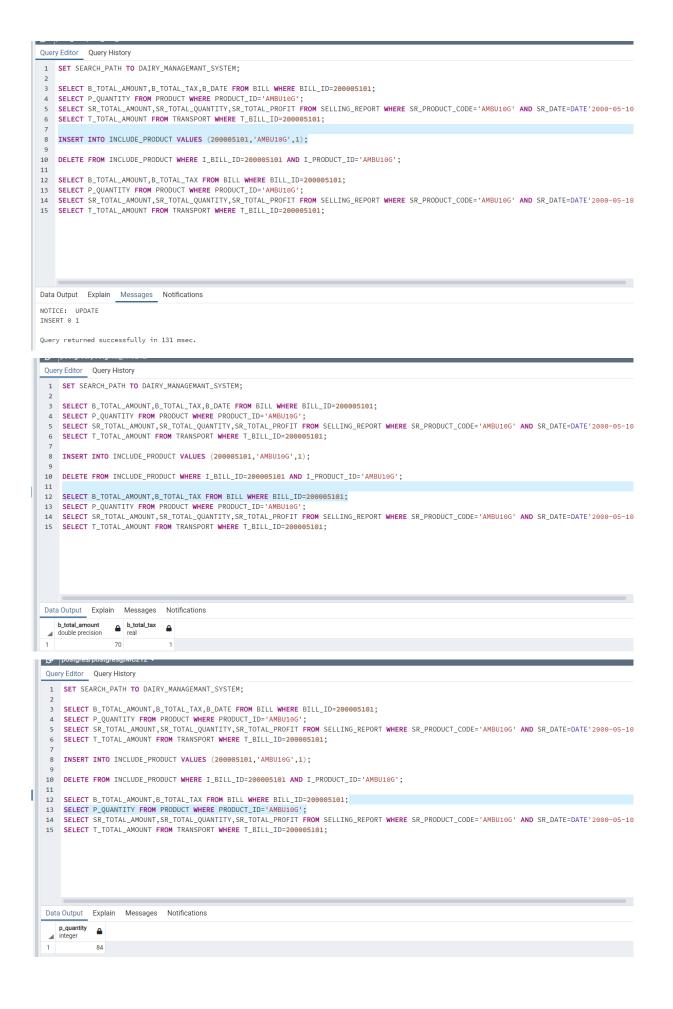
\$A\$ LANGUAGE plpgsql;

CREATE TRIGGER TRIGGER\_TEMP1 AFTER DELETE OR INSERT OR UPDATE ON INCLUDE\_PRODUCT FOR EACH ROW EXECUTE PROCEDURE BILLING();

# \* Output:





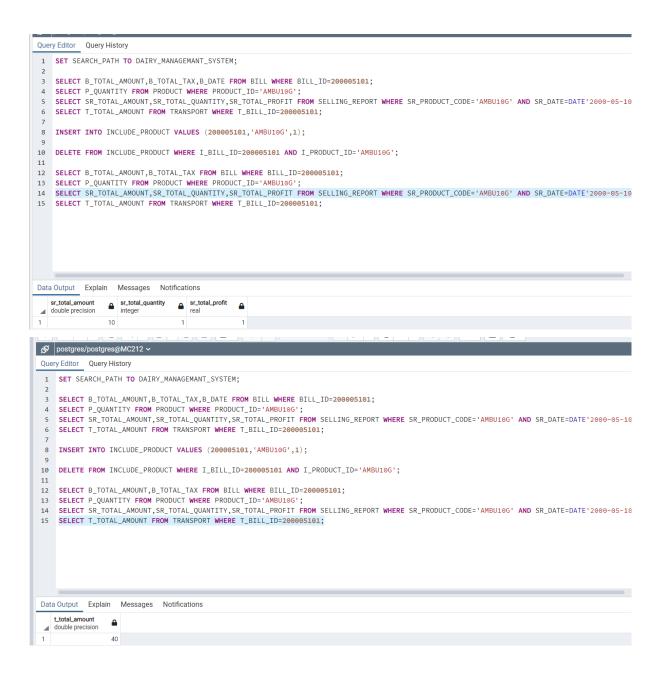




```
Query Editor Query History
1 SET SEARCH_PATH TO DAIRY_MANAGEMANT_SYSTEM;
    SELECT B_TOTAL_AMOUNT, B_TOTAL_TAX, B_DATE FROM BILL WHERE BILL_ID=200005101;
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G';
    SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-10
    SELECT T_TOTAL_AMOUNT FROM TRANSPORT WHERE T_BILL_ID=200005101;
8 INSERT INTO INCLUDE_PRODUCT VALUES (200005101, 'AMBU10G',1);
10 DELETE FROM INCLUDE_PRODUCT WHERE I_BILL_ID=200005101 AND I_PRODUCT_ID='AMBU10G';
11
12 SELECT B_TOTAL_AMOUNT,B_TOTAL_TAX FROM BILL WHERE BILL_ID=200005101;
13
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G'
    SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-10
14
15 SELECT T_TOTAL_AMOUNT FROM TRANSPORT WHERE T_BILL_ID=200005101;
Data Output Explain Messages Notifications
NOTICE: DELETE
DELETE 1
Query returned successfully in 125 msec.
Query Editor Query History
 1 SET SEARCH_PATH TO DAIRY_MANAGEMANT_SYSTEM;
   SELECT B_TOTAL_AMOUNT,B_TOTAL_TAX,B_DATE FROM BILL WHERE BILL_ID=200005101;
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G'
    SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-16
    SELECT T TOTAL AMOUNT FROM TRANSPORT WHERE T BILL ID=200005101:
   INSERT INTO INCLUDE_PRODUCT VALUES (200005101, 'AMBU10G',1);
10 DELETE FROM INCLUDE PRODUCT WHERE I_BILL_ID=200005101 AND I_PRODUCT_ID='AMBU10G';
    SELECT B_TOTAL_AMOUNT,B_TOTAL_TAX FROM BILL WHERE BILL_ID=200005101;
13
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G';
14 SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-16
    SELECT T_TOTAL_AMOUNT FROM TRANSPORT WHERE T_BILL_ID=200005101;
Data Output Explain Messages Notifications
   b_total_amount
               a b_total_tax real
 double precision
1
                 60
                             0.5
Query Editor Query History
1 SET SEARCH_PATH TO DAIRY_MANAGEMANT_SYSTEM;
   SELECT B_TOTAL_AMOUNT,B_TOTAL_TAX,B_DATE FROM BILL WHERE BILL_ID=200005101;
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G';
    SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-10
    SELECT T_TOTAL_AMOUNT FROM TRANSPORT WHERE T_BILL_ID=200005101;
8 INSERT INTO INCLUDE_PRODUCT VALUES (200005101, 'AMBU10G',1);
10 DELETE FROM INCLUDE_PRODUCT WHERE I_BILL_ID=200005101 AND I_PRODUCT_ID='AMBU10G';
12 SELECT B_TOTAL_AMOUNT, B_TOTAL_TAX FROM BILL WHERE BILL_ID=200005101;
    SELECT P_QUANTITY FROM PRODUCT WHERE PRODUCT_ID='AMBU10G';
13
    SELECT SR_TOTAL_AMOUNT, SR_TOTAL_QUANTITY, SR_TOTAL_PROFIT FROM SELLING_REPORT WHERE SR_PRODUCT_CODE='AMBU10G' AND SR_DATE=DATE'2000-05-10
15 SELECT T_TOTAL_AMOUNT FROM TRANSPORT WHERE T_BILL_ID=200005101;
Data Output Explain Messages Notifications
   p_quantity

    integer

            85
```



# **\*** Trigger 2:

CREATE FUNCTION SET\_DATE() RETURNS TRIGGER AS \$A\$ BEGIN

```
IF TG_TABLE_NAME='worker' THEN

NEW.W_JOINING_DATE=CURRENT_DATE;

ELSEIF TG_TABLE_NAME='bill' THEN

NEW.B_DATE=CURRENT_DATE;

ELSEIF TG_TABLE_NAME='transport' THEN

NEW.T_DATE=CURRENT_DATE;

ELSEIF TG_TABLE_NAME='selling_report' THEN

NEW.SR_DATE=CURRENT_DATE;

ELSEIF TG_TABLE_NAME='purchase_report' THEN
```

NEW.PR\_DATE=CURRENT\_DATE; END IF; RAISE NOTICE '%',TG\_TABLE\_NAME; RETURN NEW;

END;

\$A\$ LANGUAGE plpgsql;

CREATE TRIGGER TRIGGER\_TEMP2 BEFORE INSERT ON WORKER FOR EACH ROW EXECUTE PROCEDURE SET DATE();

CREATE TRIGGER TRIGGER\_TEMP2 BEFORE INSERT ON BILL FOR EACH ROW EXECUTE PROCEDURE SET\_DATE();

CREATE TRIGGER TRIGGER\_TEMP2 BEFORE INSERT ON TRANSPORT FOR EACH ROW EXECUTE PROCEDURE SET\_DATE();

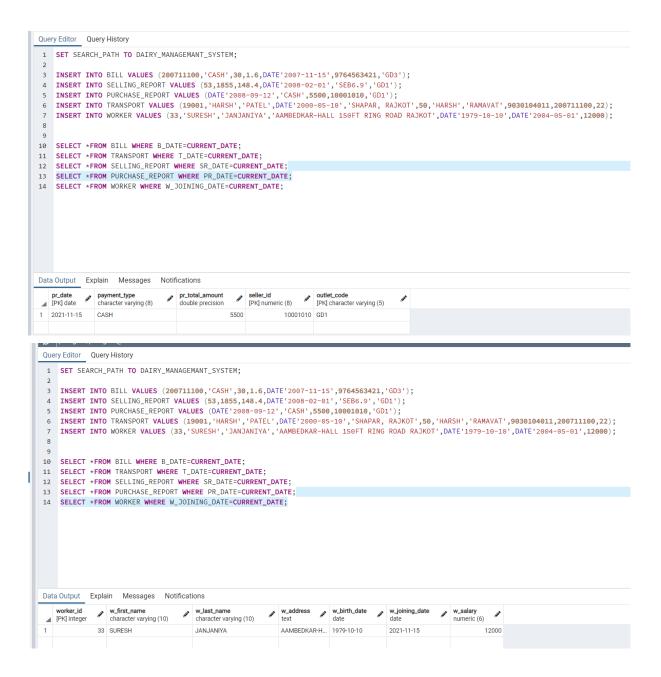
CREATE TRIGGER TRIGGER\_TEMP2 BEFORE INSERT ON SELLING\_REPORT FOR EACH ROW EXECUTE PROCEDURE SET\_DATE();

CREATE TRIGGER TRIGGER\_TEMP2 BEFORE INSERT ON PURCHASE\_REPORT FOR EACH ROW EXECUTE PROCEDURE SET DATE();

# **Output:**

```
Query Editor Query History
1 SET SEARCH_PATH TO DAIRY_MANAGEMANT_SYSTEM;
    INSERT INTO BILL VALUES (200711100, 'CASH', 30, 1.6, DATE'2007-11-15', 9764563421, 'GD3');
    INSERT INTO SELLING_REPORT VALUES (53,1855,148.4,DATE'2008-02-01','SEB6.9','GD1');
    INSERT INTO PURCHASE_REPORT VALUES (DATE'2008-09-12','CASH',5500,10001010,'GD1');
    INSERT INTO TRANSPORT VALUES (19001, 'HARSH', 'PATEL', DATE'2000-05-10', 'SHAPAR, RAJKOT', 50, 'HARSH', 'RAMAVAT', 9030104011, 200711100, 22);
    INSERT INTO WORKER VALUES (33, 'SURESH', 'JANJANIYA', 'AAMBEDKAR-HALL 150FT RING ROAD RAJKOT', DATE'1979-10-10', DATE'2004-05-01', 12000);
10 SELECT *FROM BILL WHERE B_DATE=CURRENT_DATE;
11 SELECT *FROM TRANSPORT WHERE T_DATE=CURRENT_DATE;
   SELECT *FROM SELLING_REPORT WHERE SR_DATE=CURRENT_DATE;
13 SELECT *FROM PURCHASE_REPORT WHERE PR_DATE=CURRENT_DATE;
14 SELECT *FROM WORKER WHERE W_JOINING_DATE=CURRENT_DATE;
Data Output Explain Messages Notifications
NOTICE: bill
NOTICE: selling_report
NOTICE: purchase_report
NOTICE: transport
NOTICE: worker
INSERT 0 1
Query returned successfully in 125 msec.
Query Editor Query History
 1 SET SEARCH PATH TO DAIRY MANAGEMANT SYSTEM:
3 INSERT INTO BILL VALUES (200711100, 'CASH', 30, 1.6, DATE'2007-11-15', 9764563421, 'GD3');
4 INSERT INTO SELLING_REPORT VALUES (53,1855,148.4,DATE'2008-02-01','SEB6.9','GD1');
5 INSERT INTO PURCHASE_REPORT VALUES (DATE'2008-09-12','CASH',5500,10001010,'GD1');
    INSERT INTO TRANSPORT VALUES (19001, 'HARSH', 'PATEL',DATE'2000-05-10', 'SHAPAR, RAJKOT',50, 'HARSH', 'RAMAVAT',9030104011,200711100,22);
    INSERT INTO WORKER VALUES (33, 'SURESH', 'JANJANIYA', 'AAMBEDKAR-HALL 150FT RING ROAD RAJKOT', DATE'1979-10-10', DATE'2004-05-01', 12000);
10 SELECT *FROM BILL WHERE B_DATE=CURRENT_DATE;
11 SELECT *FROM TRANSPORT WHERE T_DATE=CURRENT_DATE;
12 SELECT *FROM SELLING_REPORT WHERE SR_DATE=CURRENT_DATE;
13 SELECT *FROM PURCHASE_REPORT WHERE PR_DATE=CURRENT_DATE;
14 SELECT *FROM WORKER WHERE W_JOINING_DATE=CURRENT_DATE;
Data Output Explain Messages Notifications
                                       b_total_amount
       d b_payment_type character varying (8)
                                                         200711100 CASH
                                                                                          9764563421 GD3
```





### Views:

#### **\*** View 1:

SET SEARCH PATH TO DAIRY MANAGEMANT SYSTEM;

### **❖** View 2:

CREATE VIEW WORKER\_VIEW AS
SELECT WORKER\_ID,W\_FIRST\_NAME || ' ' || W\_LAST\_NAME AS
NAME,W\_ADDRESS AS ADDRESS,W\_BIRTH\_DATE AS
BIRTH\_DATE,W\_JOINING\_DATE AS JOINING\_DATE FROM WORKER;

## **\*** View 3:

CREATE VIEW MANAGER VIEW AS

SELECT M\_WORKER\_ID AS MANAGER\_ID,M\_USER\_NAME AS USER\_NAME FROM MANAGER;

### **❖** View 4:

CREATE VIEW PRODUCT\_VIEW AS
SELECT P\_NAME AS PRODUCT\_NAME,P\_COMPANY\_NAME AS
PRODUCT\_COMPANY,P\_TAX AS GST\_TAX,P\_UNIT\_PRICE AS PRICE,P\_QUANTITY
AS TOTAL\_PRESENT\_QUANTITY,P\_SELLER\_ID AS SELLER\_ID FROM PRODUCT;

## **\*** View 5:

CREATE VIEW CUSTOMER\_BILLED\_PRODUCTS AS
SELECT C\_FIRST\_NAME | ' ' || C\_LAST\_NAME AS NAME,C\_LOCALITY || ' ' ||
C\_CITY || ' PINCODE - ' || C\_PINCODE AS ADDRESS, C\_MOBILE\_NO AS
MOBILE NO,

R1.P\_NAME AS PRODUCT\_NAME,R1.P\_COMPANY\_NAME AS PRODUCT\_COMPANY,

R1.BILL\_ID,R1.B\_TOTAL\_AMOUNT AS TOTAL\_PAYMENT,R1.B\_PAYMENT\_TYPE AS PAYMENT TYPE FROM

CUSTOMER JOIN (SELECT \*FROM BILL JOIN (SELECT \*FROM INCLUDE\_PRODUCT JOIN PRODUCT ON I\_PRODUCT\_ID=PRODUCT\_ID) AS R2 ON BILL\_ID=R2.I\_BILL\_ID) AS R1 ON C\_MOBILE\_NO=C\_MO\_NO;

## **❖** View 6:

CREATE VIEW CUSTOMER\_FEEDBACK AS
SELECT C\_FIRST\_NAME || '' || C\_LAST\_NAME AS NAME,C\_LOCALITY || '' ||
C\_CITY || 'PINCODE - ' || C\_PINCODE AS ADDRESS,C\_MOBILE\_NO AS
MOBILE\_NO,

P\_NAME AS PRODUCT\_NAME,P\_COMPANY\_NAME AS PRODUCT\_COMPANY, F\_TITLE AS FEEDBACK\_TITLE,F\_RATING AS RATING,F\_COMMENT AS COMMENT FROM CUSTOMER JOIN (SELECT \*FROM FEEDBACK JOIN PRODUCT ON F\_TITLE=PRODUCT\_ID) AS R1 ON C\_MOBILE\_NO=CUSTOMER\_MO\_NO;

## **❖** View 7:

CREATE VIEW WORKER\_OUTLET AS
SELECT WORKER\_ID,W\_FIRST\_NAME || ' ' || W\_LAST\_NAME AS NAME,
OUTLET\_CODE,O\_ADDRESS AS OUTLET\_ADDRESS FROM WORKER JOIN
(SELECT \*FROM WORKING JOIN OUTLET ON W\_OUTLET\_ID=OUTLET\_CODE) AS
R ON WORKER\_ID=W\_WORKER\_ID;

### **❖** View 8:

CREATE VIEW TRANSPORT\_PRODUCT AS SELECT TRANSPORT\_ID, DRIVER\_FIRST\_NAME || ' ' || DRIVER\_LAST\_NAME AS DRIVER NAME, T DATE AS TRANSPORT DATE, ADDRESS,

MERCHANT\_FIRST\_NAME || ' ' || MERCHANT\_LAST\_NAME AS

MERCHANT\_NAME, MERCHANT\_MO\_NO AS MERCHANT\_MOBILE\_NUMBER,

R1.P\_NAME AS PRODUCT\_NAME,R1.P\_COMPANY\_NAME AS

PRODUCT\_COMPANY,

R1.BILL\_ID,R1.B\_TOTAL\_AMOUNT AS TOTAL\_PAYMENT,R1.B\_PAYMENT\_TYPE

AS PAYMENT\_TYPE FROM TRANSPORT JOIN

(SELECT \*FROM BILL JOIN (SELECT \*FROM INCLUDE\_PRODUCT JOIN PRODUCT

ON I\_PRODUCT\_ID=PRODUCT\_ID) AS R2 ON BILL\_ID=R2.I\_BILL\_ID)

AS R1 ON T\_BILL\_ID=BILL\_ID;

## **Functions:**

### **\*** Function 1:

SET SEARCH\_PATH TO dairy\_managemant\_system; CREATE FUNCTION PROMOTION() RETURNS BOOL AS \$A\$ DECLARE

R1 RECORD;

**BEGIN** 

FOR R1 IN SELECT \*FROM WORKER WHERE (CURRENT DATE-W JOINING DATE)/365>2

LOOP

UPDATE WORKER SET

W\_SALARY=W\_SALARY+200\*(CURRENT\_DATE-W\_JOINING\_DATE)/365 WHERE WORKER\_ID=R1.WORKER\_ID;

END LOOP;

RETURN TRUE;

END;

\$A\$ LANGUAGE plpgsql;

## **Output:**

```
postgres/postgres@MC212 v
  Query Editor  Query History
                           L00P
     8 ▼
                                       UPDATE WORKER SET
     9
                                       W_SALARY=W_SALARY+200*(CURRENT_DATE-W_JOINING_DATE)/365
  10
  11
                                       WHERE WORKER_ID=R1.WORKER_ID;
  12
                           END LOOP;
  13
                          RETURN TRUE;
  14 END;
  15 $A$ LANGUAGE plpgsql;
  16
  17
  18 DROP FUNCTION PROMOTION
  19 SELECT *FROM WORKER WHERE (CURRENT_DATE-W_JOINING_DATE)/365>2;
  20 SELECT PROMOTION();
  Data Output Explain Messages Notifications
  DROP FUNCTION
  Query returned successfully in 168 msec.
Query Editor Query History
                       UPDATE WORKER SET
10
                        W_SALARY=W_SALARY+200*(CURRENT_DATE-W_JOINING_DATE)/365
                        WHERE WORKER_ID=R1.WORKER_ID;
11
            END LOOP;
13
              RETURN TRUE;
14 END:
15 $A$ LANGUAGE plpgsql;
17
18 DROP FUNCTION PROMOTION
19 SELECT *FROM WORKER WHERE (CURRENT_DATE-W_JOINING_DATE)/365>2;
20 SELECT PROMOTION();
Data Output Explain Messages Notifications
   worker_id w_first_name character varying (10) w_last_name character varying (10) w_las
                                                                                         UMIYA-CHOWK... 1973-02-06
                                                 KUNJERA BALAJI-HALL-C... 1978-01-05

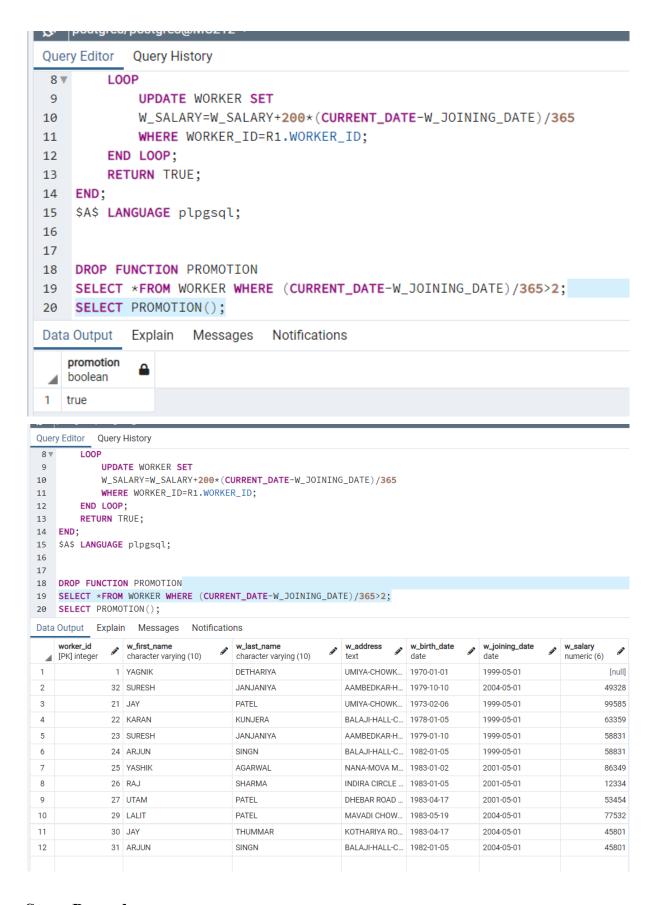
JANJANIYA AAMBEDKAR-H... 1979-01-10

SINGN BALAJI-HALL-C... 1982-01-05

AGARWAI NANA-MOVA M. 1983-01-02
 2
                                                                                                                                                                                                                       58848
                           22 KARAN
                                                                                                                                                                        1999-05-01
 3
                           23 SURESH
                                                                                                                                                                        1999-05-01
                                                                                                                                                                                                                       54320
                           24 ARJUN
                                                                                                                                                                       1999-05-01
                                                                         AGARWAL NANA-MOVA M... 1983-01-02
 5
                           25 YASHIK
                                                                                                                                                                       2001-05-01
                                                                                                                                                                                                                       82238
                                                                          SHARMA
 6
                           26 RAJ
                                                                                                                  INDIRA CIRCLE ... 1983-01-05
                                                                                                                                                                        2001-05-01
                                                                                                                                                                                                                        8223
                                                                          PATEL
                           27 UTAM
                                                                                                                  DHEBAR ROAD ... 1983-04-17
                                                                                                                                                                       2001-05-01
                                                                                                                                                                                                                       49343
 8
                                                                                                                   MAVADI CHOW... 1983-05-19
                                                                                                                                                                       2004-05-01
                           29 LALIT
                                                                                                                                                                                                                      74022
                                                                          THUMMAR
9
                           30 JAY
                                                                                                                   KOTHARIYA RO... 1983-04-17
                                                                                                                                                                        2004-05-01
                                                                                                                                                                                                                       42291
10
                          31 ARJUN
                                                                           SINGN
                                                                                                                   BALAJI-HALL-C... 1982-01-05
                                                                                                                                                                       2004-05-01
                                                                                                                                                                                                                       42291
11
                            1 YAGNIK
                                                                           DETHARIYA
                                                                                                                   UMIYA-CHOWK... 1970-01-01
                                                                                                                                                                        1999-05-01
                                                                                                                                                                                                                       [null]
 12
                            32 SURESH
                                                                           JANJANIYA
                                                                                                                    AAMBEDKAR-H... 1979-10-10
                                                                                                                                                                         2004-05-01
                                                                                                                                                                                                                       45818
```

✓ Successfully run. Total query runtime: 157 msec. 12 rows affected.

```
Query Editor Query History
1 SET SEARCH_PATH TO dairy_managemant_system;
2
3 CREATE FUNCTION PROMOTION() RETURNS BOOL AS $A$
4 DECLARE
5
       R1 RECORD;
6 ▼ BEGIN
7
       FOR R1 IN SELECT *FROM WORKER WHERE (CURRENT_DATE-W_JOINING_DATE)/365>2
      LOOP
8 ▼
           UPDATE WORKER SET
9
          W_SALARY=W_SALARY+200*(CURRENT_DATE-W_JOINING_DATE)/365
10
          WHERE WORKER_ID=R1.WORKER_ID;
11
      END LOOP;
12
13 RETURN TRUE;
Data Output Explain Messages Notifications
CREATE FUNCTION
Query returned successfully in 70 msec.
```



## **Store Procedure:-**

CREATE PROCEDURE PRO1(IN O1 VARCHAR(5),IN Y INTEGER,INOUT C1 INTEGER) LANGUAGE plpgsql AS \$A\$
DECLARE

R1 RECORD;

**BEGIN** 

FOR R1 IN SELECT \*FROM WORKER LOOP

IF(R1.WORKER\_ID IN (SELECT W\_WORKER\_ID FROM WORKING WHERE W\_OUTLET\_ID=O1) AND (CURRENT\_DATE-R1.W\_JOINING\_DATE)/365>Y) THEN

C1=C1+1;

END IF;

END LOOP;

END; \$A\$;

```
Query Editor Query History
27
            END IF;
28
        END LOOP:
29
       RETURN C1;
30 END;
31 $A$ LANGUAGE plpgsql;
33 CREATE PROCEDURE PRO1(IN 01 VARCHAR(5), IN Y INTEGER, INOUT C1 INTEGER) LANGUAGE plpgsql AS $A$
34 DECLARE
35
       R1 RECORD;
36 ▼ BEGIN
37
        FOR R1 IN SELECT *FROM WORKER
39 ₹
            IF(R1.WORKER_ID IN (SELECT W_WORKER_ID FROM WORKING WHERE W_OUTLET_ID=01) AND (CURRENT_DATE-R1.W_JOINING_DATE)/365>Y) THEN
40
           END IF;
41
       END LOOP;
42
43 END; $A$;
45 CALL PRO1('MAIN',20,0)
Data Output Explain Messages Notifications
 integer •
```