

Date: 18/9/25 Task: 6 TRIGGERS & VIEWS
Aim: To automatically performs an action whenever a specific event (Insert, update, Delete) occurs on a mobile phone table and create virtual table that filtered data.

Sql Customer Table

```
CREATE TABLE Customer (
```

```
    Cust_ID INT PRIMARY KEY,
```

```
    Cust_Name VARCHAR (50),
```

```
    Cust_PhoneNO VARCHAR (15),
```

```
    Cust_City VARCHAR (30),
```

```
    Cust_Amount paid DECIMAL (10,2)
```

```
);
```

Insert Sample Data.

Sql Insert Customer

```
INSERT INTO Customer VALUES
```

```
(1, 'John', 19876543210, 'Hyderabad',
```

```
15000),  
2, 'Smith', 19123456780, 'Delhi',
```

```
12000);
```

Create Views

Sql

```
CREATE VIEW Customer Mobile View AS
```

```
SELECT C.Cust_ID, C.Cust_Name, C.Cust_PhoneNO,
```

```
C.Cust_City, m.Mobile_Name,
```

m. Mobile - Price, c. cust - Amount Paid

FROM Customer C

JOIN mobile m

ON C.cust - Amount Paid = m.Mobile - Price;

Query

Sql

SELECT * FROM Customer Mobile view;

Output

Cust-ID	CustName	Cust-Phone no	Cust-City
1	John	987 654 3210	Hyderabad
2	Smith	912345 6780	Delhi
			Mobile-Price
			Amount Paid
			30000
			15000

Create Triggers

Sql

CREATE TRIGGER check-amount-before-insert.

BETORE INSERT ON Customer

FOR EACH ROW

BEGIN

DECLARE Price DECIMAL (10,2);

SELECT mobile-price INTO price

WHERE mobile_Price = New.Cust_Amount
Paid
LIMIT 1;

IF Price IS NULL THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Invalid Payment -
no matching mobile found!';
END IF;
END;

Test

Sql

INSERT INTO Customer VALUES (3, 'Ajay',
900000000, 'Hyderabad', 8000);

~~Error.~~ output:-

Invalid Payment - no matching mobile
found!

Sql> insert into mobile phone values

(1, 'Realme', 30,000);

output:- 1 row inserted

Sql> select * from ~~customer~~
mobile phone;

cust-id	cust-name	cust-phone no	cust-city
1	John	9870543210	Hyderabad
2	Smith	9123456780	Delhi

Mobile Price	Amount Paid
30,000	30,000
15,000	15,000

VEL TECH	
EX NO.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	1
TOTAL (20)	16

16/9/20

Result:- Thus the implementation of trigger & views on the database has been successfully completed and verified.