

## 16/11 TASK 6: - TRIGGERS & VIEWS

Aim:- To automatically perform an action when ever a specific event occurs on a mobile phone table & create virtual table that filtered data

SQL Customer Table

```
CREATE TABLE Customer (  
    cust-ID INT PRIMARY KEY,  
    cust-Name VARCHAR(50),  
    cust-Phone VARCHAR(15),  
    cust-city VARCHAR(30),  
    cust-Amount paid DECIMAL(10,2)  
);
```

Insert Sample Data

SQL Insert customers

```
INSERT INTO Customer VALUES  
(1, 'John', '9876543210', 'Hyderabad', 15000)  
(2, 'Smith', '9123456780', 'Delhi', 12000);
```

Create Views

SQL

```
CREATE VIEW CustomerMobileView AS  
SELECT c.cust-ID, c.cust-Name, c.  
    cust-city, m.Mobile-NAME, m.Mobile-Phone,  
    cust-Amount paid.
```



FROM Customer c

~~JOIN~~ mobile m

JOIN mobile m

ON c.cost - Amount Paid = m.mobile\_price;

Query

SQL

SELECT \* FROM customer mobile view;

Output

cost - ID	cost - Name	cost - Phone No	cost - city	mobile price	Amount Paid
1	John	9876543210	Hydara bad	15000	15000
2	Smith	9123456780	Delhi	12000	12000

Create triggers

SQL

CREATE TRIGGER check\_amount\_before\_insert  
BEFORE INSERT ON Customer  
FOR EACH ROW

BEGIN

DECLARE price DECIMAL(10,2);

SELECT mobile\_price INTO price

WHERE mobile\_price = NEW.cost - Amount Paid

LIMIT 1;

IF price IS NULL THEN

SIGNAL SQL STATE '45000'



SET MESSAGE\_TEXT = Invalid payment =

no matching

mobile found!

END IF;

END;

TEST

sql

INSERT INTO CUSTOMER VALUES (3, 'Ajay',  
'9000000000', 'Mumbai, 8000');

Error

Invalid payment: no matching mobile found!

sql > insert into mobile phone values

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

Output :- 1 row inserted

sql > select \* from mobile phone;

cust - id	cust - Name	cust - Phoneno	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.	
PERFORMANCE (5)	6
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	10/19

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