

Date:- 16/9/25

Task-6 TRIGGERS & VIEWS

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

Create Table:-

SQL Customer Table

```
CREATE TABLE Customer (  
    Cust-ID INT PRIMARY KEY,  
    Cust-Name VARCHAR (50),  
    Cust-Phone No 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', 14000);
```

Create views

SQL

```
CREATE VIEW Customer Mobile view AS  
SELECT C.Cust-ID, C.Cust-Name, C.Cust-Phone No
```

```
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	cust_name	cust-phone no	cust-city	mobile Price	Amount Paid
1	John	9876543210	Hyderabad	15000	15000
2	Smith	9123456789	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 Cust-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

Sq1

INSERT INTO Customer VALUES (1, 'Ajay', '900000000',
'Mumbai', 8000);

Error

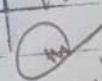
Invalid Payment : no matching mobile found!

Sq2 > insert into mobile phone values
(1, 'Realme', 30,000);

output:- 1 row inserted.

Sq1 > select * from mobile phone;

cust-id	cust-name	cust-phone no	cust-city	mobile-price	Amount
1	John	9876543210	Hyderabad	30,000	30,000
2	Smith	9123456780	Delhi	15,000	15,000

VEL TECH	
EX NO.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	8
VIVA VOCE (5)	5
RECORD (5)	—
TOTAL (20)	18
SIGN WITH DATE	

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