

16/09/2025

## Task-6 [Triggers & Views]

Aim: To automatically performs an action whenever a specific event occurs on mobile phone to create virtual table

Create Table:

Sql · Customer Table

```
CREATE TABLE customer(  
    cust-ID INT PRIMARY KEY,  
    cust-Name VARCHAR(50),  
    cust-phoneno VARCHAR(15),  
    cust-city VARCHAR(30),  
    cust-Amountpaid 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 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-  
    - Amountpaid  
FROM customer c  
    JOIN mobile m  
    ON c.cust-Amountpaid = m.mobile price;
```

Query

Sql

```
SELECT * FROM customer mobile view;
```

output



cust_ID	cust_Name	cust_phonenlo	cust_city	mobile-price	Amount paid
1	John	9876543210	Hyderabad	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.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

sql

```
INSERT INTO customer VALUES (3, 'Ajay', '900000000',
'Mumbai', 8000);
```

Error

Invalid payment : no matching mobile found !

sql > insert into mobile phones  
values

```
(1, 'Realme', 50000);
```

Output: 1 row inserted

sql > select \* from mobile phone;

VEL TECH	
EX NO.	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
DATE	WITH DATE



cust_id	cust_name	cust_phonenb	cust_city	Mobile price	Amount paid
1	John	9870543210	Hyderabad	30,000	30,000
2	Smith	9123456780	Delhi	15,000	15,000

VEL TECH	
EX No.	
PERFORMANCE (5)	8
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

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Result: Thus, the Implementation of trigger of views on the database has been successfully completed and verified.