

Task-6: Date: 16/9/25

Triggers and views

Aim: To automatically perform an action whenever a specific event (insert, update, delete) occurs on a mobile phone.

Create table: table and create virtual.

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', 12000);
```

Create views

Sql

```
CREATE VIEW customer_mobile_view AS
SELECT c.cust-ID, c.cust-Name, c.cust-phone
    e.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-

cust-ID	cust-name	cust-phone No	cust-city	Mobile price	Amount -t
Amount					
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','
Mumbai',8000); 90000000;
Output:

Error

Invalid payment into matching mobile
found!

Sql & insert into mobile phone values

(1,'Realme',30000);

Output: 1 row inserted

Sql & Select * from mobile phone;

EmpId	custId	custName	Cust-PhoneNo	CustCity
	1	John	9870543210	Hyderabad
2	Smith		9123456780	Delhi

VEL TECH	
EX NO.	5
PERFORMANCE (5)	5
RESULT AND ANALYSE'S (5)	5
VIVA VOCE (5)	6
RECORD (5)	7
TOTAL (20)	15
SIGN WITH DATE	M

Result: Thus, implementation of

trigger & views on the database has
been successfully completed and
verified.