

Task 6 :-

16/9/25

Trigger & Views

Aim :- To automatically perform an action whenever a specific event, update, Delete e) occurs on a mobile Phone table and create virtual.

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 CustomerMobileView 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 CustomerMobileView;
```

Output

Cust_ID	Cust_Name	Cust_Phone No	Cust-city	Mobile Price	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 SQLSTATE '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 phone values

output 1 row inserted

Sql

Select from mobile phone

Cust-Id	Cust Name	Cust Phone No	City	Price	Amount paid
1	John	9870543210	Hyderabad	30,000	30,000
2	Smit	9123456780	Delhi	15,000	150000

VEL TECH	
EX NO.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	
TOTAL (20)	15
SIGNATURE DATE	

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