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 - 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', '9896543210', '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 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

```sql
SELECT *FROM Customer Mobile view;
```

output

cust ID	cust-Name	cust.phone No	cust-city	Mobile Price	Amount Paid
1	John	987654 3210	Hyderabad	15000	15000
2	Smith	9123456780	Delhi	12000	12000

Create Triggers

sql

```sql
CREATE ·TRIGGER Check-amount-before-insert
  BEFORE INSERT O·N 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 ·MESSEAGEE _TEXT = Invalid Payment; no
            matching mobile found!;
    END IF;
  END;
```

TEST

INSERT INTO customer values (3, 'Ajay', '90000000',

'Mumbai', 8000);

ERROR

Invalid · Payment : no matching mobile found!

sql > insert into mobile phones values

(1, 'Realme', 50,000);

output :- 1 row inserted

sql >select * from mobile phone;

Cust-id	cust Name	cust-phone no.	cust-city	Mobile price	Amont paid
1	John	9870543210	Hyderabad	30,000	30,000
2	Smith	9123456780	Delhi	15,000	15000

Results: Thus the implementation of trigger of views on the database has been successfully completed and verified