

16/9/25

Task No:- 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-Phone No VARCHAR(15),
    cust-Name VARCHAR(50),
    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-PhoneNo,
c.cust-city, m.mobile-Name, m.mobile-Price,
c.cust-Amount
```

Paid

From customeric

John. 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
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~~ Price DECIMAL (10, 2);

SELECT mobile-price INTO Price;

WHERE ~~mobile~~ mobile-Price = NEW cust-amount paid,

LIMIT 1;

If price is null then

SIGNAL sql state '45000'

Set message-Terse=Invalid payment=no match
-ing mobile
found",

ENDIF;

END;

Test

sql .

INSERT INTO customer values (3, 'Ajay', '9000000,
00,
"mumbai, 8000);

Error .

Invalid payment: no matching mobile found!
sql> insert into mobile_phones
values

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

Output :- 1 row inserted

sql> select * from mobile_phones;

Cust-ID	Cust-name	Cust-phone	Cust-city	mobile pho	Amount paid
1.	John	9876543210	Hyderabad	30,000	30,000
2.	Smith	9123456780	Delhi	15,000	15,000

VEL TECH	
EX No.	5
PERFORMANCE (5)	5
RESULT AND ANALYSIS	5
VIVA VOCE (5)	4
RECORD (5)	
TOTAL (20)	14
SIGN WITH DATE	

✓
19/10/2023

Result:-

Thus, the implementation of trigger of views on the database has been successfully completed and verified.