

# 6/9/25 TASK 6 :- TRIGGERS & VIEWS

Aim:- TO AUTOMATICALLY PERFORM AN ACTION WHEN EVER A SPECIFIC EVENT OCCURS ON A MOBILE PHONE TABLE & CREATE VIRTUAL TABLE THAT FILTERED DATA  
CREATE TABLE

SQL Customer Table

CREATE TABLE Customer

CUST-ID INT PRIMARY KEY,  
CUST-NAME VARCHAR(50),  
CUST-Phone 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 CustomerMobileView AS

SELECT C.CUST-ID, C.CUST-NAME, C.

C.CUST-CITY, M.MOBILE-NAME, M.MOBILE-PHONENO  
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-PHONE NO	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 =  
END IF;  
END;

NO matching  
Mobile found

TEST

SQL

INSERT INTO customer VALUES (3, 'Ajay',  
'90000000', 'Mumbai', 8000);

Error

Invalid payment : no matching mobile found,

SQL > insert into mobile phone values

(1, 'Realme', 50000);

Output :- 1 row inserted

SQL > select \* from mobile phone

Cust-ID	Cust-Name	Cust-PhoneNo	Cust-City
1	John	9870543210	Hyderabad
2	Smith	9123456780	Delhi
		Mobile-Price	Amount Paid
		30,000	30,000
		15,000	15,000

VEL TECH	
EX NO.	6
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	10/19

Result:- Thus, the implementation of trigger  
or view on the database has been  
successfully completed & verified.

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