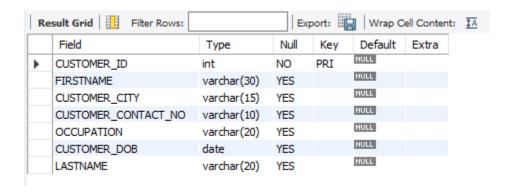
NAME: SANJEEV N DATE: 09/07/2025

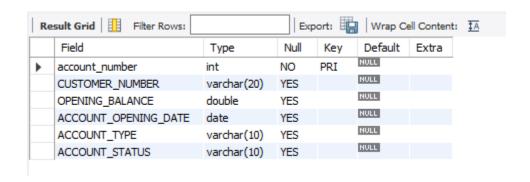
## 1. ADD PRIMARY KEY CONSTRAINT TO CUSTOMER\_ID IN CUSTOMER TABLE

ALTER TABLE Customer ADD CONSTRAINT PK\_Customer PRIMARY KEY (CUSTOMER\_ID);



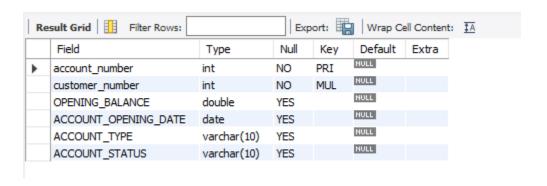
### 2. ADD PRIMARY KEY CONSTRAINT TO ACCOUNT NUMBER IN ACCOUNT TABLE

ALTER TABLE Account ADD CONSTRAINT PK\_Account PRIMARY KEY (ACCOUNT\_NUMBER);



## 3. ADD FOREIGN KEY CONSTRAINT TO CUSTOMER\_NUMBER IN ACCOUNT TABLE REFERENCING CUSTOMER(CUSTOMER\_ID)

ALTER TABLE Account
ADD CONSTRAINT FK\_Account\_Customer FOREIGN KEY (CUSTOMER\_NUMBER)
REFERENCES Customer(CUSTOMER\_ID);



4. QUERY TO COUNT NUMBER OF CUSTOMERS FROM CHENNAI WITH ALIAS CUSTOMER\_COUNT

SELECT COUNT(\*) AS CUSTOMER\_COUNT FROM Customer
WHERE CUSTOMER CITY = 'Chennai';

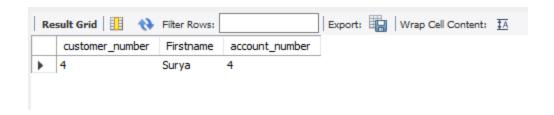


5. QUERY TO DISPLAY CUSTOMER NUMBER, FIRST NAME, AND ACCOUNT NUMBER FOR ACCOUNTS CREATED AFTER 15TH OF ANY MONTH

SELECT a.CUSTOMER\_NUMBER, c.FIRSTNAME, a.ACCOUNT\_NUMBER FROM Account a

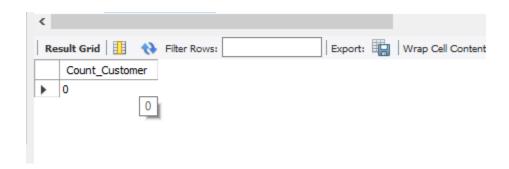
JOIN Customer c ON a.CUSTOMER\_NUMBER = c.CUSTOMER\_ID

WHERE DAY(a.ACCOUNT\_OPENING\_DATE) > 15;



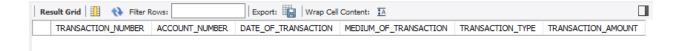
## 6. QUERY TO COUNT CUSTOMERS WHO ARE REGISTERED BUT HAVE NO ACCOUNT, ALIAS AS COUNT\_CUSTOMER

SELECT COUNT(\*) AS Count\_Customer FROM Customer c WHERE NOT EXISTS (SELECT 1 FROM Account a WHERE a.CUSTOMER\_NUMBER = c.CUSTOMER\_ID);



#### 7. CREATE TRANSACTION\_DETAILS TABLE

CREATE TABLE transaction\_details (
TRANSACTION\_NUMBER INT,
ACCOUNT\_NUMBER INT,
DATE\_OF\_TRANSACTION DATE,
MEDIUM\_OF\_TRANSACTION VARCHAR(20),
TRANSACTION\_TYPE VARCHAR(20),
TRANSACTION\_AMOUNT DOUBLE );

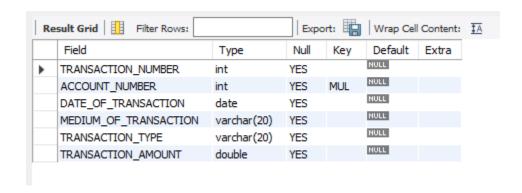


# 8. ADD FOREIGN KEY CONSTRAINT ON ACCOUNT\_NUMBER REFERENCING ACCOUNT(ACCOUNT\_NUMBER)

ALTER TABLE transaction\_details

ADD CONSTRAINT FK\_Transaction\_Account FOREIGN KEY (ACCOUNT\_NUMBER)

REFERENCES Account(ACCOUNT\_NUMBER);



### 9. INSERT SAMPLE ROWS INTO TRANSACTION\_DETAILS

INSERT INTO transaction\_details (TRANSACTION\_NUMBER, ACCOUNT\_NUMBER, DATE\_OF\_TRANSACTION, MEDIUM\_OF\_TRANSACTION, TRANSACTION\_TYPE, TRANSACTION\_AMOUNT) VALUES

(11, 1, '2025-07-01', 'Online', 'Withdrawal', 3000.00),

(12, 2, '2025-07-02', 'ATM', 'Deposit', 5000.00),

(13, 3, '2025-07-03', 'Online', 'Withdrawal', 1500.00),

(14, 4, '2025-07-04', 'Branch', 'Deposit', 2000.00);



# 10. QUERY TO DISPLAY TOTAL NUMBER OF WITHDRAWALS AND DEPOSITS BY CUSTOMER NUMBER ENDING WITH '%1'

SELECT td.TRANSACTION\_TYPE, COUNT(\*) AS Trans\_Count FROM transaction\_details td JOIN Account a ON td.ACCOUNT\_NUMBER = a.ACCOUNT\_NUMBER WHERE a.CUSTOMER\_NUMBER LIKE '%1' GROUP BY td.TRANSACTION\_TYPE ORDER BY td.TRANSACTION\_TYPE ASC;

