# DAY 3

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#### Tasks:

- 1.Add primary key constraint to customer\_id in customer table.
- 2.Add primary key constraint to account\_number in account table.
- 3.Add foreign key constraint to customer\_number in account table which refers customer\_id of customer table.
- 4. Write a query to display the number of customer's from Chennai. Give the count an alias name of Cust\_Count.
- 5. Write a query to display the customer number, customer firstname, account number for the customer's whose accounts were created after 15th of any month.
- 6. Write a query to display the number of customers who have registration but no account in the bank

Give the alias name as Count\_Customer for number of customers.

- 7.Create table transaction\_details with columns transaction\_number VARCHAR(6) account\_number VARCHAR(6) date\_of\_transaction DATE medium\_of\_transaction VARCHAR(20) transaction\_type VARCHAR(20) transaction amount double
- 8. Add foreign key constraint to account\_number in transaction table which refers account\_number of account table.
- 9.Insert rows in transaction table
- 10. Write a query to display the total number of withdrawals and total number of deposits being done by customer whose customer number ends with 001. The query should display transaction type and the number of transactions. Give an alias name as Trans\_Count for number of transactions.

Display the records sorted in ascending order based on transaction type.

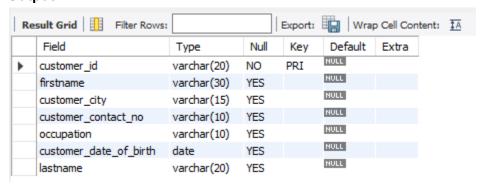
# Solution:

# 1.Query:

alter table customer add primary key(customer\_id);

desc customer;

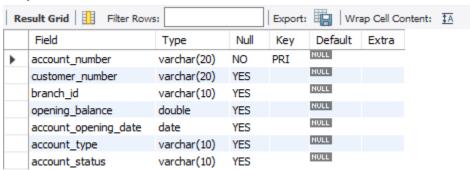
# Output:



### 2.Query:

alter table account add primary key(account\_number);

desc account;

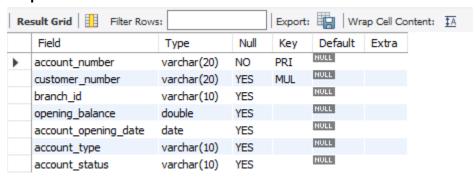


### 3. Query:

alter table account add constraint pk foreign key(customer\_number) references customer(customer\_id) on delete set null;

desc account;

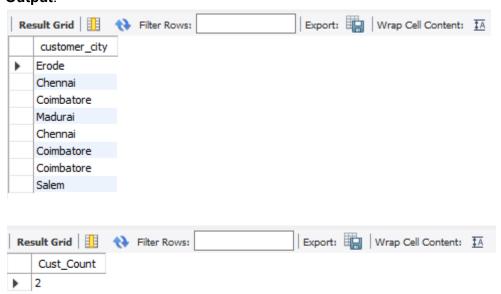
### Output:



### 4.Query:

select customer\_city from customer;

select count(customer\_id) Cust\_Count from customer where customer\_city = 'Chennai';

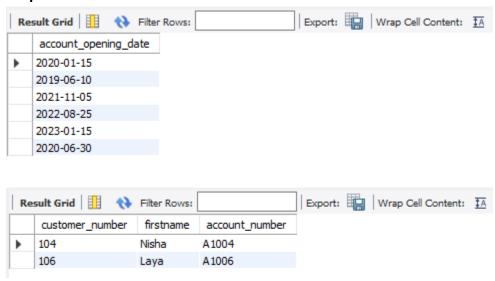


### 5.Query:

select account\_opening\_date from account;

select customer\_number, firstname, account\_number from customer join account on customer\_id = account.customer\_number where day(account\_opening\_date) > 15;

### Output:



# 6.Query:

select count(customer\_id) Count\_Customer from customer where customer\_id not in (select customer\_number from account);

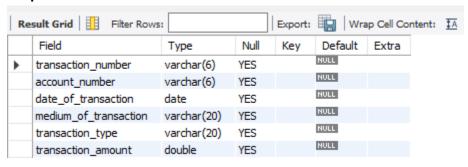


#### 7.Query:

create table transaction\_details(transaction\_number varchar(6), account\_number varchar(6), date\_of\_transaction date, medium\_of\_transaction varchar(20), transaction\_type varchar(20), transaction\_amount double);

desc transaction\_details;

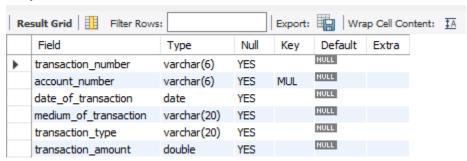
### Output:



#### 8. Query:

alter table transaction\_details add constraint pk\_trans foreign key(account\_number) references account(account\_number) on delete set null;

desc transaction\_details;



#### 9.Query:

insert into transaction\_details values('T10001', 'A1005', '2023-07-01', 'ATM', 'Withdrawal', 2000.00),

('T10002', 'A1001', '2023-07-05', 'Net Banking', 'Deposit', 5000.00),

('T10003', 'A1001', '2023-07-10', 'Mobile App', 'Withdrawal', 1500.00),

('T10004', 'A1002', '2023-07-12', 'Cheque', 'Deposit', 7000.00),

('T10005', 'A1006', '2023-07-15', 'Branch', 'Withdrawal', 1100.00),

('T10006', 'A1001', '2023-07-22', 'Mobile App', 'Withdrawal', 2200.00);

select \* from transaction\_details;

#### Output:

	•					
Result Grid						
	transaction_number	account_number	date_of_transaction	medium_of_transaction	transaction_type	transaction_amount
•	T10001	A1005	2023-07-01	ATM	Withdrawal	2000
	T10002	A1001	2023-07-05	Net Banking	Deposit	5000
	T10003	A1001	2023-07-10	Mobile App	Withdrawal	1500
	T10004	A1002	2023-07-12	Cheque	Deposit	7000
	T10005	A1006	2023-07-15	Branch	Withdrawal	1100
	T10006	A1001	2023-07-22	Mobile App	Withdrawal	2200

### 10.Query:

Select t.transaction\_type,count(\*) Trans\_Count from transaction\_details t join account a on t.account\_number = a.account\_number where a.customer\_number like '%01' group by t.transaction\_type order by t.transaction type asc;

