Surya Prakash M
9/7/25

1.Add Primarykey constraint:

```
147 •  desc Customer;
148 •  alter table customer Add constraint  Primary key (CustomerID)
149
150
151
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
customerID	int	NO	PRI	NULL	
FirstName	varchar(30)	YES		NULL	
CustomerContactNo	varchar(10)	YES		NULL	
CustomerCity	varchar(10)	YES		NULL	
CustomerDOB	date	YES		NULL	

Result 19

2.Add Primary Key constraint to Account table:

```
150 •  desc Account;
151 •  alter table Account Add constraint  Primary key (AccountNumber);
152
153
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
AccountNumber	varchar(20)	NO	PRI	NULL	
customer_number	varchar(20)	YES		NULL	
Branch	varchar(30)	YES		NULL	
OpeningBalance	double	YES		NULL	
account_type	varchar(10)	YES		NULL	

Result 23

Surya Prakash M
9/7/25

3.Add Foreign Key Constraint To CustomerNumber:

```
153 •  desc Account;
154 •  ALTER table ACcount ADD Constraint foreign key(Customer_number) references customer(CustomerID)
155
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
AccountNumber	varchar(20)	NO	PRI	NULL	
Customer_number	int	YES	MUL	NULL	
Branch	varchar(30)	YES		NULL	
OpeningBalance	double	YES		NULL	
account_type	varchar(10)	YES		NULL	

Result 24

4.Query to Get Count from chennai employees:

```
156 •  select Count(Customer_number) AS Cust_Count From Account WHERE Branch = 'Chennai';
157
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Cust_Count
1

5.Query to select the Account Created After 15 of any month:

```
162 •  select A.Customer_number,C.FirstName,A.AccountNumber from Account A INNER JOIN Customer C ON
163    A.Customer_number = C.CustomerID
164    WHERE DAY(A.CreatedAt)>15
165
166
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Customer_number	FirstName	AccountNumber
18	Surya	180

Surya Prakash M
9/7/25

6.query to display the number of customers who have registration but no account in the bank.

```
166 •  select * from Customer WHERE CustomerID NOT IN (select Customer_number from Account)
167
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

customerID	FirstName	CustomerContactNo	CustomerCity	CustomerDOB	LastName
17	Virat	45678960	Pollachi	2004-05-06	
NULL	NULL	NULL	NULL	NULL	NULL

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

```
168 •  Create table transaction_details(
169        transaction_number VARCHAR(6),
170        account_number VARCHAR(6),
171        date_of_transaction DATE,
172        medium_of_transaction VARCHAR(20),
173        transaction_type VARCHAR(20),
174        transaction_amount double);
175 •  DESC transaction_details;
176
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
transaction_number	varchar(6)	YES		NULL	
account_number	varchar(6)	YES		NULL	
date_of_transaction	date	YES		NULL	
medium_of_transaction	varchar(20)	YES		NULL	
transaction_type	varchar(20)	YES		NULL	

Result 37

Surya Prakash M
9/7/25

8.Add foreign key constraint to account_number in transaction table which refers account_number of account table.

```
176
177 •  DESC transaction_details;
178 •  ALTER table transaction_details ADD Constraint foreign key(account_number) references Account(AccountNumber);
179
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
transaction_number	varchar(6)	YES		NULL	
account_number	varchar(6)	YES	MUL	NULL	
date_of_transaction	date	YES		NULL	
medium_of_transaction	varchar(20)	YES		NULL	
transaction_type	varchar(20)	YES		NULL	

Result 38

9.Insert rows in transaction table

```
179 •  select * from transaction_details;
180 •  INSERT INTO transaction_details VALUES ('5','181',current_date(),'ATM','Debit',1000);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

transaction_number	account_number	date_of_transaction	medium_of_transaction	transaction_type	transaction_amount
1	180	2025-07-09	ATM	Debit	10000
2	180	2025-07-09	ATM	Debit	10000
3	181	2025-07-09	UPI	Credit	10000
4	180	2025-07-09	UPI	Credit	1000
5	181	2025-07-09	ATM	Debit	1000

transaction_details41

Output

Surya Prakash M
9/7/25

10.Write a query to display the total number of withdrawals and total number of deposits being done by a customer whose customer number ends with 18. 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.

```
182 •  select t.transaction_type,COUNT(t.transaction_number) AS Trans_Count from Customer C
183    INNER JOIN Account A ON C.CustomerID = A.Customer_number INNER JOIN transaction_details t
184    ON A.AccountNumber = t.account_number WHERE C.CustomerID = 18 GROUP BY t.transaction_type
185    ORDER BY t.transaction_type
186
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

transaction_type	Trans_Count
Credit	1
Debit	2