Step 1: Create table Customer with columns
   CUSTOMER_ID VARCHAR(20)
   FIRSTNAME VARCHAR(10)
   MIDDLE_NAME VARCHAR(20)
   CUSTOMER_CITY VARCHAR(15)
   CUSTOMER_CONTACT_NO VARCHAR(10)
   OCCUPATION VARCHAR(10)
   CUSTOMER_DATE_OF_BIRTH DATE

Query: create table customer (customer_id varchar(20), first_name varchar(10), middle_name varchar(20), customer_city varchar(15), customer_contact_no varchar(10), occupation varchar(10), customer_date_of_birth date);

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
first_name	varchar(10)	YES		NULL	
middle_name	varchar(20)	YES		NULL	
customer_city	varchar(15)	YES		NULL	
customer_contact_no	varchar(10)	YES		NULL	
occupation	varchar(10)	YES		NULL	
customer_date_of_birth	date	YES		NULL	

Step 2: Add column lastname varchar(20).

Query: alter table customer add column lastname varchar(10);

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
first_name	varchar(10)	YES		NULL	
middle_name	varchar(20)	YES		NULL	
customer_city	varchar(15)	YES		NULL	
customer_contact_no	varchar(10)	YES		NULL	
occupation	varchar(10)	YES		NULL	
customer_date_of_birth	date	YES		NULL	
lastname	varchar(10)	YES		NULL	

Step 3: Modify the column size of firstname to 30.

Query: alter table customer modify column first_name varchar(30);

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
first_name	varchar(30)	YES		NULL	
middle_name	varchar(20)	YES		NULL	
customer_city	varchar(15)	YES		NULL	
customer_contact_no	varchar(10)	YES		NULL	
occupation	varchar(10)	YES		NULL	
customer_date_of_birth	date	YES		NULL	
lastname	varchar(10)	YES		NULL	

Step 4: Drop the column middle_name.

Query: alter table customer drop column middle_name;

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
first_name	varchar(30)	YES		NULL	
customer_city	varchar(15)	YES		NULL	
customer_contact_no	varchar(10)	YES		NULL	
occupation	varchar(10)	YES		NULL	
customer_date_of_birth	date	YES		NULL	
lastname	varchar(10)	YES		NULL	

Step 5: Insert some rows into customer table.

Query: insert into customer values('1', 'dharanesh', 'erode', '9876543210', 'it', '2005-07-20', 'r'),
('2', 'snajeev', 'tirupur', '1234567890', 'manager', '2005-08-20', 'n'),
('3', 'karthi', 'tirupur', '6789054321', 'tl', '2005-07-21', 's'),
('4', 'surya', 'pollachi', '1234509876', 'ceo', '2005-07-24', 'p');

customer_id	first_name	customer_city	customer_contact_no	occupation	customer_date_of_birth	lastname
1	dharanesh	erode	9876543210	it	2005-07-20	r
2	snajeev	tirupur	1234567890	manager	2005-08-20	n
3	karthi	tirupur	6789054321	tl	2005-07-21	s
4	surya	pollachi	1234509876	ceo	2005-07-24	p

Step 6: Create table account with columns
  account_number VARCHAR(20)
  customer_number VARCHAR(20)
  branch_id VARCHAR(10)
  opening_balance double
  account_opening_date DATE
  account_type VARCHAR(10)
  account_status VARCHAR(10)

Query: create table account (account_number varchar(20), customer_number varchar(20), branch_id varchar(10), opening_balance double, account_opening_date date, account_type varchar(10), account_status varchar(10));

Field	Type	Null	Key	Default	Extra
account_number	varchar(20)	YES		NULL	
customer_number	varchar(20)	YES		NULL	
branch_id	varchar(10)	YES		NULL	
opening_balance	double	YES		NULL	
account_opening_date	date	YES		NULL	
account_type	varchar(10)	YES		NULL	
account_status	varchar(10)	YES		NULL	

Step 7: Insert some rows in account table.

Query: insert into account values ('1001', '1', 'BR001', 1500.50, '2023-01-15', 'Savings', 'Active'),
('1002', '2', 'BR002', 2500.00, '2022-11-20', 'Checking', 'Active'),
('1003', '3', 'BR001', 500.75, '2023-03-05', 'Savings', 'Inactive'),
('1004', '4', 'BR003', 10000.00, '2021-07-30', 'Checking', 'Active');

account_number	customer_number	branch_id	opening_balance	account_opening_date	account_type	account_status
1001	1	BR001	1500.5	2023-01-15	Savings	Active
1002	2	BR002	2500	2022-11-20	Checking	Active
1003	3	BR001	500.75	2023-03-05	Savings	Inactive
1004	4	BR003	10000	2021-07-30	Checking	Active

Step 8: Write a query to display customer's number, customer's firstname,lastname and date of birth.

Query: select customer_id, first_name, last_name, customer_date_of_birth from customer;

customer_id	first_name	lastname	customer_date_of_birth
1	dharanesh	r	2005-07-20
2	snajeev	n	2005-08-20
3	karthi	s	2005-07-21
4	surya	p	2005-07-24

Step 9: Write a query to display customers from city Chennai.

Query: select * from customer where customer_city like 'chennai';

customer_id	first_name	customer_city	customer_contact_no	occupation	customer_date_of_birth	lastname
2	snajeev	chennai	1234567890	manager	2005-08-20	n
3	karthi	chennai	6789054321	tl	2005-07-21	s

Step 10: Write a query to display customer id whose opening balance is in the range 5000 to 10000.

Query: select customer_number from account where opening_balance between 5000 and 10000;

customer_number
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