1. Create table Customer

```
CREATE TABLE Customer (
    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
);
```

2. Add column lastname

```
ALTER TABLE Customer
ADD LASTNAME VARCHAR(20);
```

Field	Type	Null	Key	Default
CUSTOMER_ID	varchar(20)	YES		NULL
FIRSTNAME	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(20)	YES		NULL

3. Modify column size of firstname

```
ALTER TABLE Customer
MODIFY FIRSTNAME VARCHAR(30);
```

Field	Type	Null	Key	Default
CUSTOMER_ID	varchar(20)	YES		NULL
FIRSTNAME	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(20)	YES		NULL

4. Drop the column middle_name

ALTER TABLE Customer
DROP COLUMN MIDDLE_NAME;

Field	Type	Null	Key	Default
▶ CUSTOMER_ID	varchar(20)	YES		NULL
FIRSTNAME	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(20)	YES		NULL

5. Insert some rows into customer table

INSERT INTO Customer (CUSTOMER_ID, FIRSTNAME, LASTNAME, CUSTOMER_CITY,
CUSTOMER_CONTACT_NO, OCCUPATION, CUSTOMER_DATE_OF_BIRTH)
VALUES
('CUST001', 'Raj', 'Kumar', 'Chennai', '9876543210', 'Engineer', '1990-05-20'),
('CUST002', 'Priya', 'Singh', 'Coimbatore', '9876543211', 'Teacher', '1985-08-12'),
('CUST003', 'Arun', 'Verma', 'Chennai', '9876543212', 'Doctor', '1992-02-28'),
('CUST004', 'Meena', 'Nair', 'Madurai', '9876543213', 'Clerk', '1994-10-05');

CUSTOMER_ID	FIRSTNAME	CUSTOMER_CITY	CUSTOMER_CONTACT_NO	OCCUPATION	CUSTOMER_DATE_OF_BIRTH	LASTNAME
CUST001	Raj	Chennai	9876543210	Engineer	1990-05-20	Kumar
CUST002	Priya	Coimbatore	9876543211	Teacher	1985-08-12	Singh
CUST003	Arun	Chennai	9876543212	Doctor	1992-02-28	Verma
CUST004	Meena	Madurai	9876543213	Clerk	1994-10-05	Nair

6. Create table Account

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
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

7. Insert some rows in account table

INSERT INTO Account (ACCOUNT_NUMBER, CUSTOMER_NUMBER, BRANCH_ID, OPENING_BALANCE, ACCOUNT_OPENING_DATE, ACCOUNT_TYPE, ACCOUNT_STATUS) VALUES
('ACC1001', 'CUST001', 'BR001', 7000, '2020-01-01', 'Saving', 'Active'),
('ACC1002', 'CUST002', 'BR002', 12000, '2021-03-15', 'Current', 'Active'),
('ACC1003', 'CUST003', 'BR001', 9500, '2022-06-10', 'Saving', 'Inactive'),
('ACC1004', 'CUST004', 'BR003', 3000, '2023-11-22', 'Saving', 'Active');

ACCOUNT_NUMBER	CUSTOMER_NUMBER	BRANCH_ID	OPENING_BALANCE	ACCOUNT_OPENING_DATE	ACCOUNT_TYPE	ACCOUNT_STATUS
ACC1001	CUST001	BR001	7000	2020-01-01	Saving	Active
ACC1002	CUST002	BR002	12000	2021-03-15	Current	Active
ACC1003	CUST003	BR001	9500	2022-06-10	Saving	Inactive
ACC1004	CUST004	BR003	3000	2023-11-22	Saving	Active

8. Query to display customer's number, firstname, lastname and DOB

SELECT CUSTOMER_ID, FIRSTNAME, LASTNAME, CUSTOMER_DATE_OF_BIRTH
FROM Customer;

CUSTOMER_ID	FIRSTNAME	LASTNAME	CUSTOMER_DATE_OF_BIRTH
CUST001	Raj	Kumar	1990-05-20
CUST002	Priya	Singh	1985-08-12
CUST003	Arun	Verma	1992-02-28
CUST004	Meena	Nair	1994-10-05

9. Query to display customers from city Chennai

SELECT *
FROM Customer
WHERE CUSTOMER_CITY = 'Chennai';

CUSTOMER_ID	FIRSTNAME	CUSTOMER_CITY	CUSTOMER_CONTACT_NO	OCCUPATION	CUSTOMER_DATE_OF_BIRTH	LASTNAME
CUST001	Raj	Chennai	9876543210	Engineer	1990-05-20	Kumar
CUST003	Arun	Chennai	9876543212	Doctor	1992-02-28	Verma

10. Query to display customer id whose opening balance is in the range 5000 to 10000

SELECT CUSTOMER_NUMBER
FROM Account
WHERE OPENING_BALANCE BETWEEN 5000 AND 10000;

CUSTOMER_NUMBER
CUST001
CUST003