day-2

date: 08/07/2025 - MYSQL

create database bank;

use bank;

1. Create table customer with column

customer_id varchar(20)

firstname varchar(10)

middle_name varchar(20)

customer_city varchar(15)

customer_contact_no varchar(10)

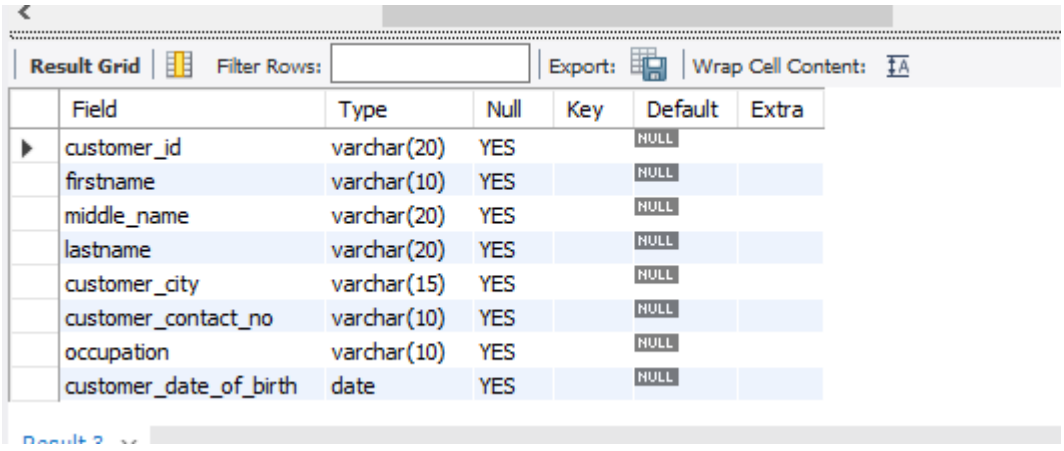
occupation varchar(10)

customer_date_of_birth date

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 varchar(20)

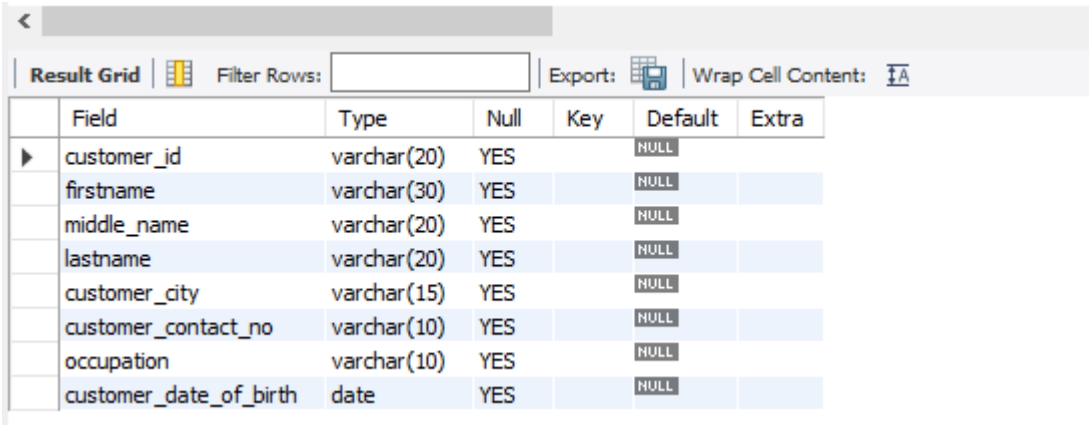
alter table customer add column lastname varchar(20) after middle_name;



Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
firstname	varchar(10)	YES		NULL	
middle_name	varchar(20)	YES		NULL	
lastname	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	

3.Modify the column size of firstname to 30

alter table customer modify column firstname varchar(30);

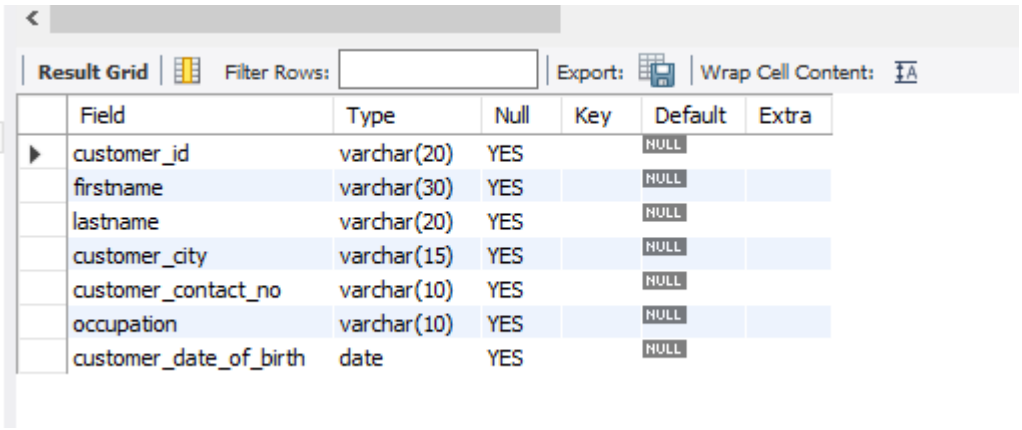


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
firstname	varchar(30)	YES		NULL	
middle_name	varchar(20)	YES		NULL	
lastname	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	

4. drop the column middle_name

alter table customer drop column middle_name;



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

Field	Type	Null	Key	Default	Extra
customer_id	varchar(20)	YES		NULL	
firstname	varchar(30)	YES		NULL	
lastname	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	

5. insert values into customer table:

insert into customer (customer_id, firstname, lastname, customer_city, customer_contact_no, occupation, customer_date_of_birth)values

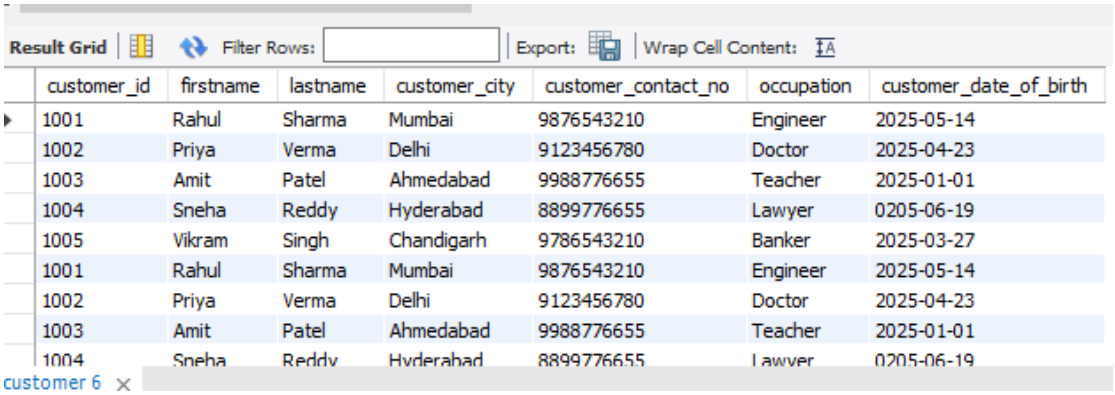
('1001', 'Rahul', 'Sharma', 'Mumbai', '9876543210', 'Engineer', '2025-05-14'),

('1002', 'Priya', 'Verma', 'Delhi', '9123456780', 'Doctor', '2025-04-23'),

('1003', 'Amit', 'Patel', 'Ahmedabad', '9988776655', 'Teacher', '2025-01-01'),

('1004', 'Sneha', 'Reddy', 'Hyderabad', '8899776655', 'Lawyer', '205-06-19'),

('1005', 'Vikram', 'Singh', 'Chandigarh', '9786543210', 'Banker', '2025-03-27');



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

customer_id	firstname	lastname	customer_city	customer_contact_no	occupation	customer_date_of_birth
1001	Rahul	Sharma	Mumbai	9876543210	Engineer	2025-05-14
1002	Priya	Verma	Delhi	9123456780	Doctor	2025-04-23
1003	Amit	Patel	Ahmedabad	9988776655	Teacher	2025-01-01
1004	Sneha	Reddy	Hyderabad	8899776655	Lawyer	0205-06-19
1005	Vikram	Singh	Chandigarh	9786543210	Banker	2025-03-27
1001	Rahul	Sharma	Mumbai	9876543210	Engineer	2025-05-14
1002	Priya	Verma	Delhi	9123456780	Doctor	2025-04-23
1003	Amit	Patel	Ahmedabad	9988776655	Teacher	2025-01-01
1004	Sneha	Reddy	Hyderabad	8899776655	Lawyer	0205-06-19

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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)

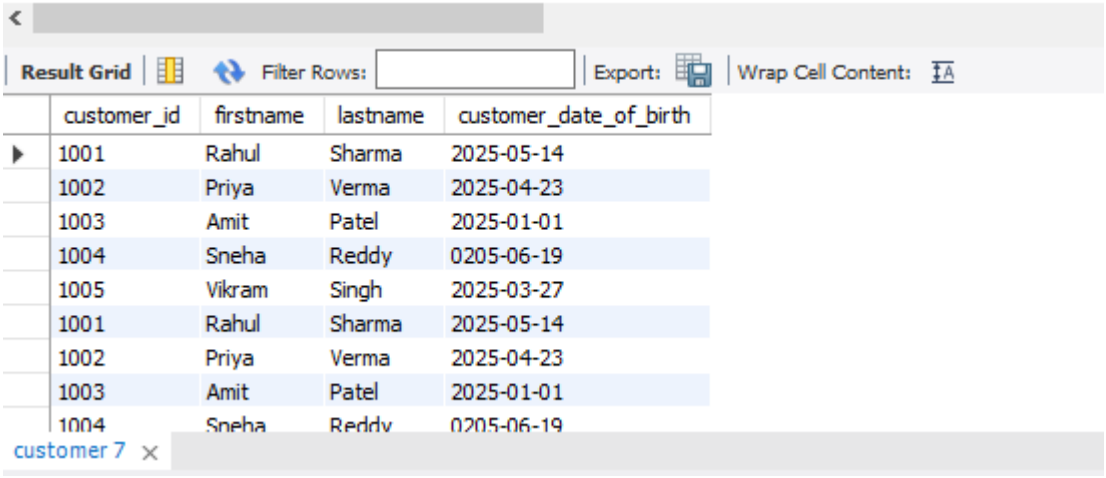
```
create table account (account_number varchar(20),customer_number varchar(20) references customer(customer_id),branch_id varchar(10),opening_balance double,account_opening_date date,account_type varchar(10),account_status varchar(10));
```

7. insert rows in account:

```
insert into account (
    account_number, customer_number, branch_id,
    opening_balance, account_opening_date,
    account_type, account_status
) values
('ACC002', '1002', 'BR001', 10000.00, '2025-07-01', 'Current', 'Active'),
('ACC003', '1003', 'BR002', 2500.00, '2025-06-15', 'Savings', 'Inactive'),
('ACC004', '1001', 'BR003', 15000.00, '2025-06-20', 'Fixed', 'Active');
```

8. write a query to display customer's number, customer's firstname,latename and date of birth

select customer_id,firstname,lastname,customer_date_of_birth from customer;



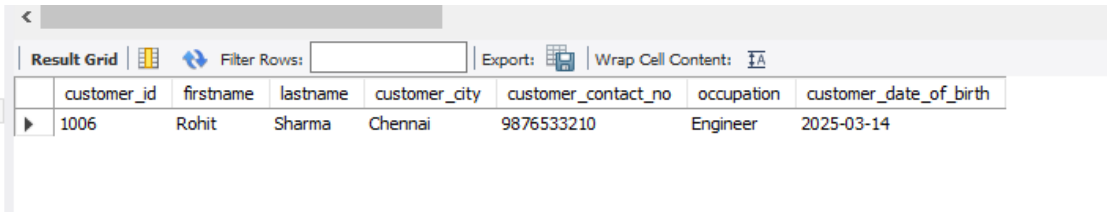
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

customer_id	firstname	lastname	customer_date_of_birth
1001	Rahul	Sharma	2025-05-14
1002	Priya	Verma	2025-04-23
1003	Amit	Patel	2025-01-01
1004	Sneha	Reddy	0205-06-19
1005	Vikram	Singh	2025-03-27
1001	Rahul	Sharma	2025-05-14
1002	Priya	Verma	2025-04-23
1003	Amit	Patel	2025-01-01
1004	Sneha	Reddy	0205-06-19

customer 7

9. write a query to display customers for city chennai

select * from customer where customer_city='chennai';



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

customer_id	firstname	lastname	customer_city	customer_contact_no	occupation	customer_date_of_birth
1006	Rohit	Sharma	Chennai	9876533210	Engineer	2025-03-14

10. write a query to display customer id whose opening balance is the range 5000 to 1000

select customer_number from account where opening_balance between 5000 and 10000;

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

customer_number
1002