DAY 2

NAME: Nandhini V
DATE: 08-07-2025

Tasks:

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

2. Add column lastname varchar(20).

3. Modify the column size of firstname to 30.

4. Drop the column middle_name.

5. Insert some rows into customer table.

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)

7. Insert some rows in account table.

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

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

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

Solution:

1.Query:

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);

desc customer;

Output:

Field	Type	Null	Key	Default	Extra
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	

2.Query:

alter table customer add column lastname varchar(20);

desc customer;

Output:

Field	Type	Null	Key	Default	Extra
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.Query:

alter table customer modify column firstname varchar(30);

desc customer;

Output:

Field	Type	Null	Key	Default	Extra
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.Query:

alter table customer drop column middle_name;

desc customer;

Output:

Field	Type	Null	Key	Default	Extra
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.Query:
insert into customer values(101, 'Sam', 'Erode', 8752787243, 'Business', '1995-05-28', 'Saran'),
('102', 'Priya', 'Chennai', '9876543210', 'Teacher', '1990-10-15', 'Lakshmi'),
('103', 'Arun', 'Coimbatore', '9123456789', 'Engineer', '1992-03-05', 'Kumar'),
('104', 'Nisha', 'Madurai', '9345678123', 'Doctor', '1988-12-22', 'Meena');

select * from customer;

Output:

	customer_id	firstname	customer_city	customer_contact_no	occupation	customer_date_of_birth	lastname
▶	101	Sam	Erode	8752787243	Business	1995-05-28	Saran
	102	Priya	Chennai	9876543210	Teacher	1990-10-15	Lakshmi
	103	Arun	Coimbatore	9123456789	Engineer	1992-03-05	Kumar
	104	Nisha	Madurai	9345678123	Doctor	1988-12-22	Meena

6.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));

desc account;

Output:

	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	

7.Query:

insert into account values('A1001', '101', 'B01', 5000.00, '2020-01-15', 'Savings', 'Active'),
('A1002', '102', 'B02', 2000.00, '2019-06-10', 'Current', 'Active'),
('A1003', '103', 'B01', 7000.00, '2021-11-05', 'Savings', 'Inactive'),
('A1004', '104', 'B03', 1500.00, '2022-08-25', 'Savings', 'Active');

select * from account;

Output:

account_number	customer_number	branch_id	opening_balance	account_opening_date	account_type	account_status
A1001	101	B01	5000	2020-01-15	Savings	Active
A1002	102	B02	2000	2019-06-10	Current	Active
A1003	103	B01	7000	2021-11-05	Savings	Inactive
A1004	104	B03	1500	2022-08-25	Savings	Active

8.Query:

select customer_id, firstname, lastname, customer_date_of_birth from customer;

Output:

customer_id	firstname	lastname	customer_date_of_birth
101	Sam	Saran	1995-05-28
102	Priya	Lakshmi	1990-10-15
103	Arun	Kumar	1992-03-05
104	Nisha	Meena	1988-12-22

9.Query:
select * from customer where customer_city = 'chennai';

Output:

customer_id	firstname	customer_city	customer_contact_no	occupation	customer_date_of_birth	lastname
102	Priya	Chennai	9876543210	Teacher	1990-10-15	Lakshmi

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

Output:

customer_number
101
103