Institute of computer technology

B.Tech-CSE(BDA)

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Sem:-3

Enrollment no.:-23162121021

Batch:-31

Sub:-DBMS

Date:-21/8/2024

Practical 4

Q:- Create tables with various Data Constraints and verify by inserting

values in it.

Scenario : Mohan as an engineer know what are the issues when an entry gets

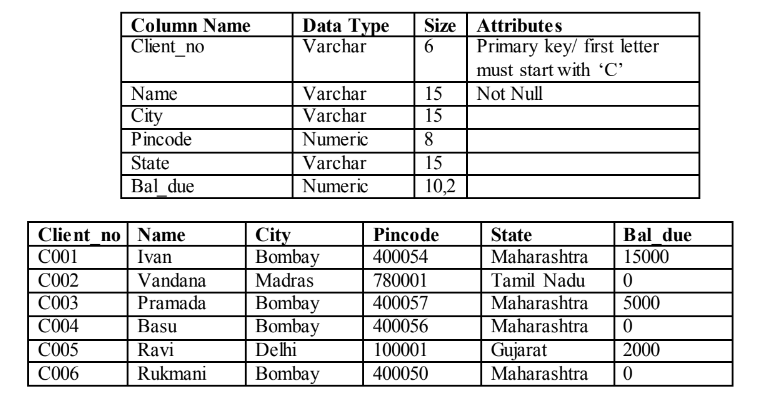
wrongly inserted. Thus to avoid such issues Mohan suggested to have

constraints so that whenever by mistake also if someone tries to enter data can

first get checked and than inserted.

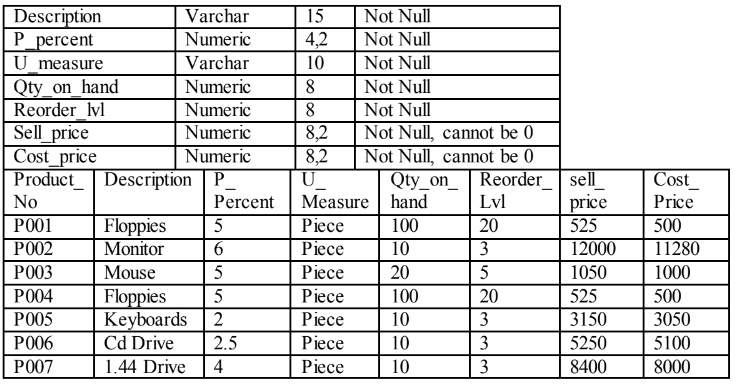
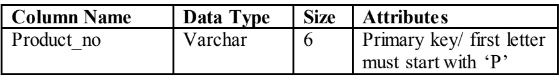
A) Table Name: Client\_master

Description: Used to store information about clients.



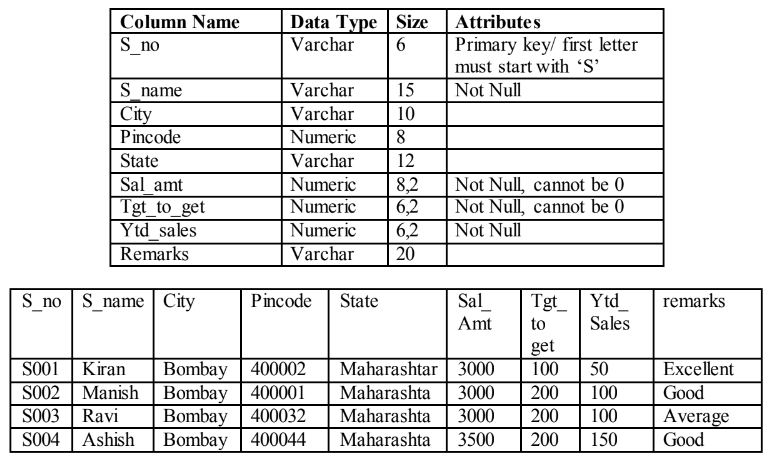
B) Table Name: Product\_master

Description: Used to store information about products.



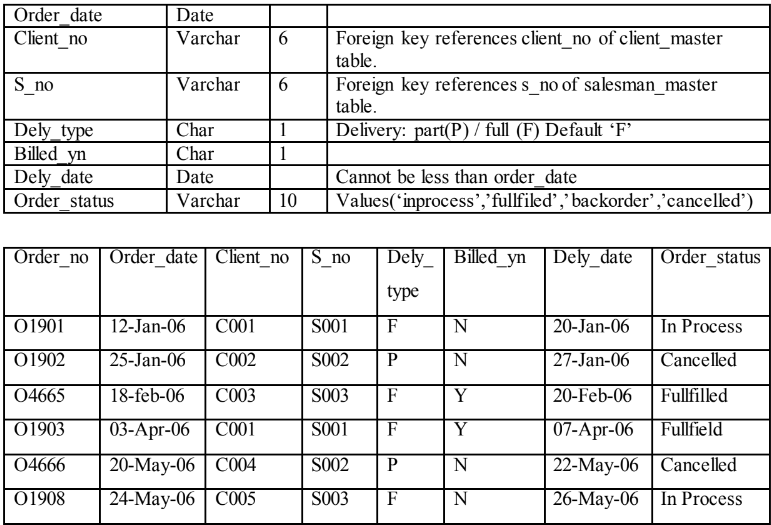
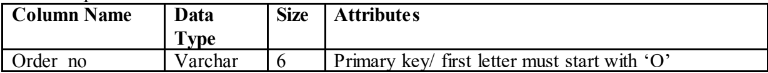
C) Table Name: Salesman\_master

Description: Used to store information about salesman working in the company.



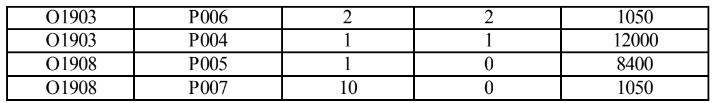
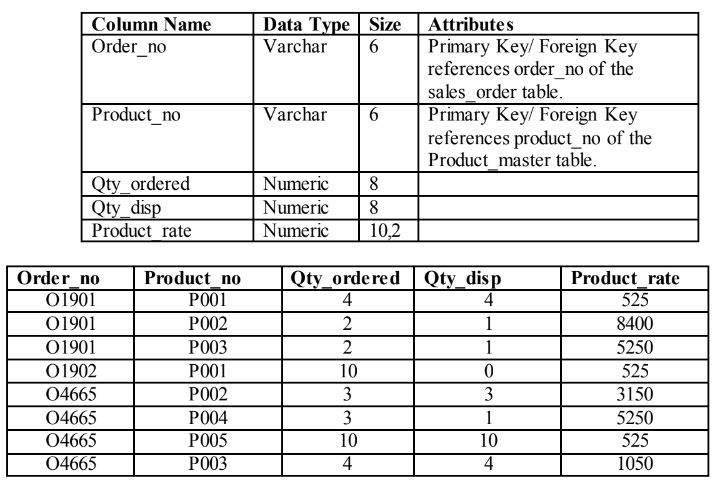
D) Table Name: Sales\_order

Description: Used to store client’s orders.



E)Table Name: Sales\_order\_details

Description: Used to store client’s orders with details of each product ordered.



Exercise:Create Above tables with given constraints and insert data in it.

A=> Query:- use bda\_23162121021;

create table client\_master(Client\_no varchar(6) primary key check(Client\_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pincode numeric(8), State varchar(15), Bal\_due numeric(10,2));

desc client\_master;

insert into Client\_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharastra', 15000);

insert into Client\_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);

insert into Client\_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharastra', 5000);

insert into Client\_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharastra', 0);

insert into Client\_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

insert into Client\_master values( 'C006', 'Rukmani', 'Bombay', 400050, 'Maharastra', 0);

select \* from Client\_master;

create table product\_master(Product\_no varchar(6) primary key check(Product\_no like 'P%'), Description varchar(15) NOT NULL, P\_percent numeric(4,2) NOT NULL,U\_measure varchar(10) NOT NULL,Qty\_on\_hand numeric(8) NOT NULL,Reorder\_lvl numeric(8) NOT NULL,Sell\_price numeric(8,2) NOT NULL check(Sell\_price not like 0) ,Cost\_price numeric(8,2) NOT NULL check(Cost\_price not like 0));

desc product\_master;

insert into Product\_master values( 'P001', 'Floppies', 5, 'Piece', 100, 20, 525, 500);

insert into Product\_master values( 'P002', 'Monitor', 6, 'Piece', 10, 3, 12000, 11280);

insert into Product\_master values( 'P003', 'Mouse', 5, 'Piece', 20, 5, 1050, 1000);

insert into Product\_master values( 'P004', 'Floppies', 5, 'Piece', 100, 20, 525, 500);

insert into Product\_master values( 'P005', 'Keyboards', 2, 'Piece', 10, 3, 3150, 3050);

insert into Product\_master values( 'P006', 'Cd Drive', 2.5, 'Piece', 10, 3, 5250, 5100);

insert into Product\_master values( 'P007', '1.44 Drive', 4, 'Piece', 10, 3, 8400, 8000);

select \* from Product\_master;

create table salesman\_master(S\_no varchar(6) primary key check(S\_no like 'S%'),S\_name varchar(15) NOT NULL,City varchar(15), Pincode numeric(8), State varchar(15),Sal\_amt numeric(8,2) NOT NULL check(Sal\_amt not like 0) ,Tgt\_to\_get numeric(6,2) NOT NULL check(Tgt\_to\_get not like 0),Ytd\_sales numeric(6,2) NOT NULL,Remarks varchar(20));

desc salesman\_master;

insert into Salesman\_master values('S001', 'Kiran', 'Bombay', 400002, 'Maharastra', 3000, 100, 50, 'Excellent');

insert into Salesman\_master values('S002', 'Manish', 'Bombay', 400001, 'Maharastra', 3000, 200, 100, 'Good');

insert into Salesman\_master values('S003', 'Ravi', 'Bombay', 400032, 'Maharastra', 3000, 200, 100, 'Average');

insert into Salesman\_master values('S004', 'Ashish', 'Bombay', 400044, 'Maharastra', 3500, 200, 150, 'Good');

select \* from Salesman\_master;

create table sales\_order(Order\_no varchar(6) primary key check(Order\_no like 'O%'), Order\_date Date, Client\_no Varchar(6) ,foreign key(Client\_no) references client\_master(Client\_no), S\_no varchar(6) ,foreign key(S\_no) references salesman\_master(S\_no), Dely\_Type char(1) DEFAULT 'F' check(dely\_type like 'P' or dely\_type like 'F'), Billed\_yn char(1), Dely\_date date ,check(Dely\_date >= Order\_date), Order\_status varchar(10) check(Order\_status like 'inprocess' or Order\_status like 'cancelled' or Order\_status like 'backorder' or Order\_status like 'fulfilled') );

desc sales\_order;

insert into Sales\_order values('O1901' ,str\_to\_date('02/06/2015', '%d/%m/%Y') ,'C001' ,'S001' ,'F' ,'N' ,str\_to\_date('20/06/2015', '%d/%m/%Y') ,'InProcess');

insert into Sales\_order values('O1902' ,str\_to\_date('25/01/2015', '%d/%m/%Y') ,'C002' ,'S002' ,'P' ,'N' ,str\_to\_date('27/06/2015', '%d/%m/%Y') ,'Cancelled');

insert into Sales\_order values('O4665' ,str\_to\_date('18/02/2015', '%d/%m/%Y') ,'C003' ,'S003' ,'F' ,'Y' ,str\_to\_date('20/02/2015', '%d/%m/%Y') ,'fulfilled');

insert into Sales\_order values('O1903' ,str\_to\_date('03/04/2015', '%d/%m/%Y') ,'C001' ,'S001' ,'F' ,'Y' ,str\_to\_date('07/04/2015', '%d/%m/%Y') ,'fulfilled');

insert into Sales\_order values('O4666' ,str\_to\_date('20/05/2015', '%d/%m/%Y') ,'C004' ,'S002' ,'P' ,'N' ,str\_to\_date('22/05/2015', '%d/%m/%Y') ,'Cancelled');

insert into Sales\_order values('O1908' ,str\_to\_date('24/05/2015', '%d/%m/%Y') ,'C005' ,'S003' ,'F' ,'N' ,str\_to\_date('26/05/2015', '%d/%m/%Y') ,'InProcess');

select \* from Sales\_order;

create table sales\_order\_details(Order\_no varchar(6), foreign key(Order\_no) references sales\_order(Order\_no), Product\_no varchar(6) , foreign key(Product\_no) references product\_master(Product\_no) ,Qty\_orderd numeric(8) ,Qty\_disp numeric(8) ,Product\_rate numeric(10,2));

desc sales\_order\_details;

insert into sales\_order\_details values('O1901','P001', 4, 4, 525);

insert into sales\_order\_details values('O1901','P002', 2, 1, 8400);

insert into sales\_order\_details values('O1901','P003', 2, 1, 5250);

insert into sales\_order\_details values('O1902','P001', 10, 0, 525);

insert into sales\_order\_details values('O4665','P002', 3, 3, 3150);

insert into sales\_order\_details values('O4665','P004', 3, 1, 5250);

insert into sales\_order\_details values('O4665','P005', 10, 10, 525);

insert into sales\_order\_details values('O4665','P003', 4, 4, 1050);

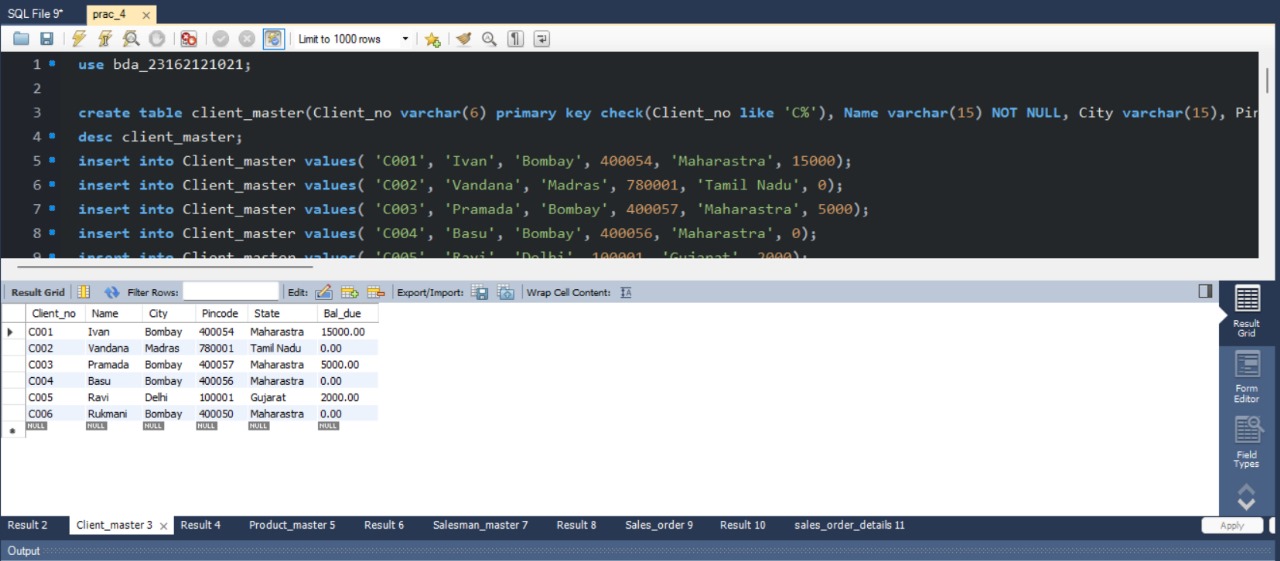
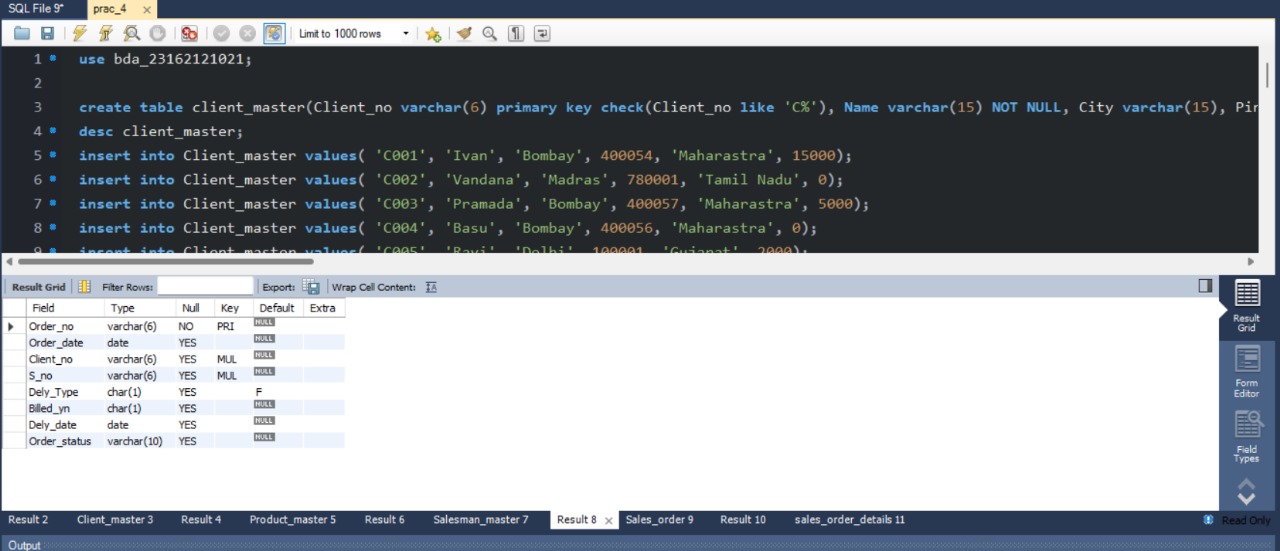
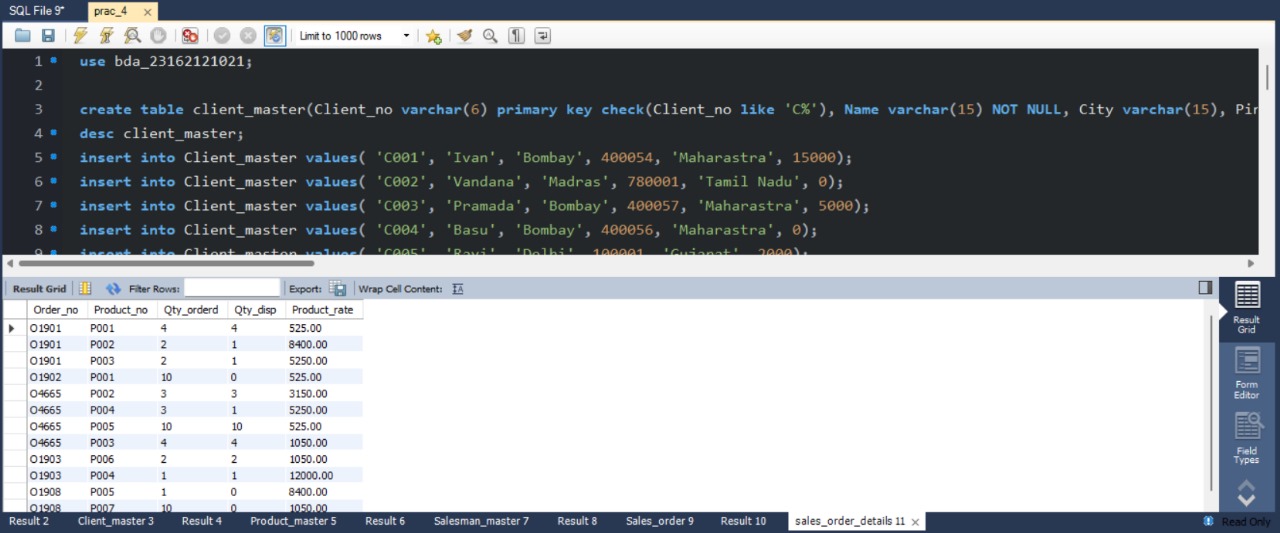
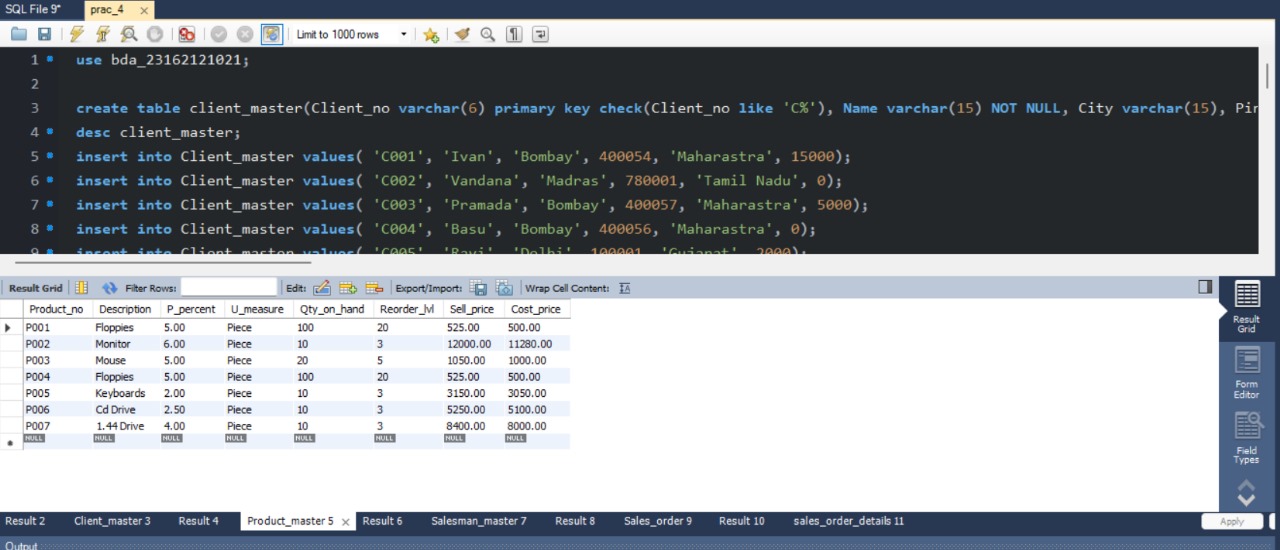
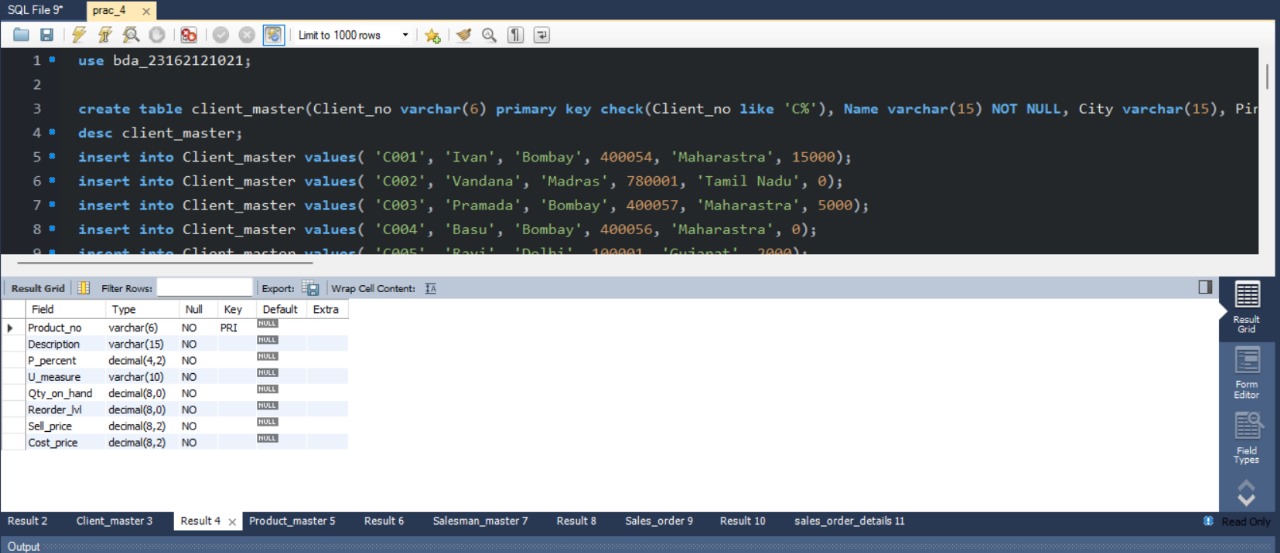
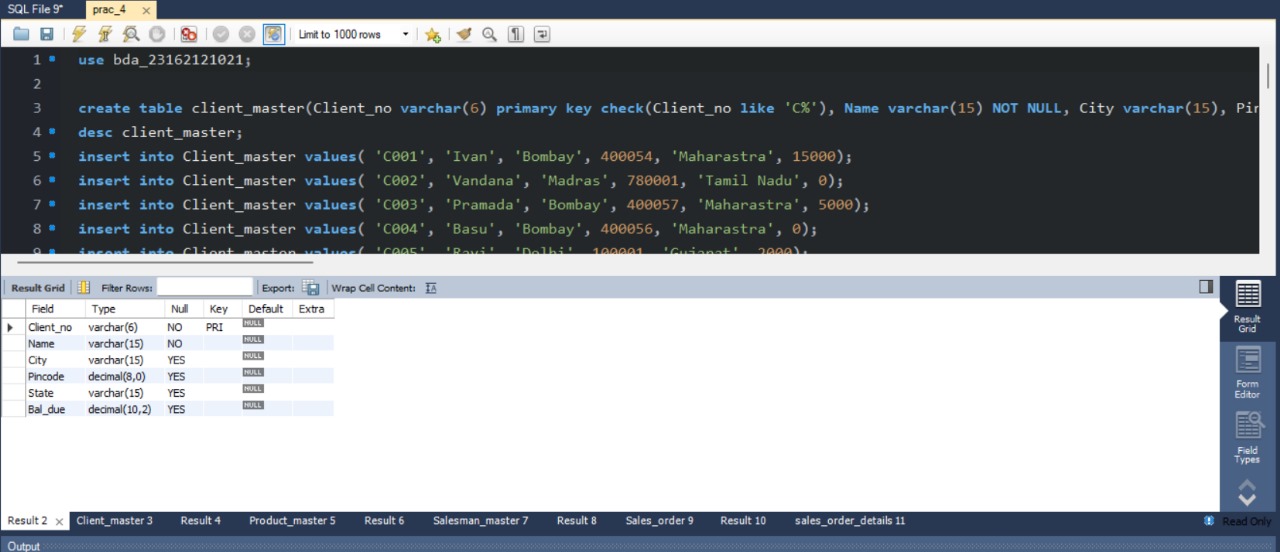
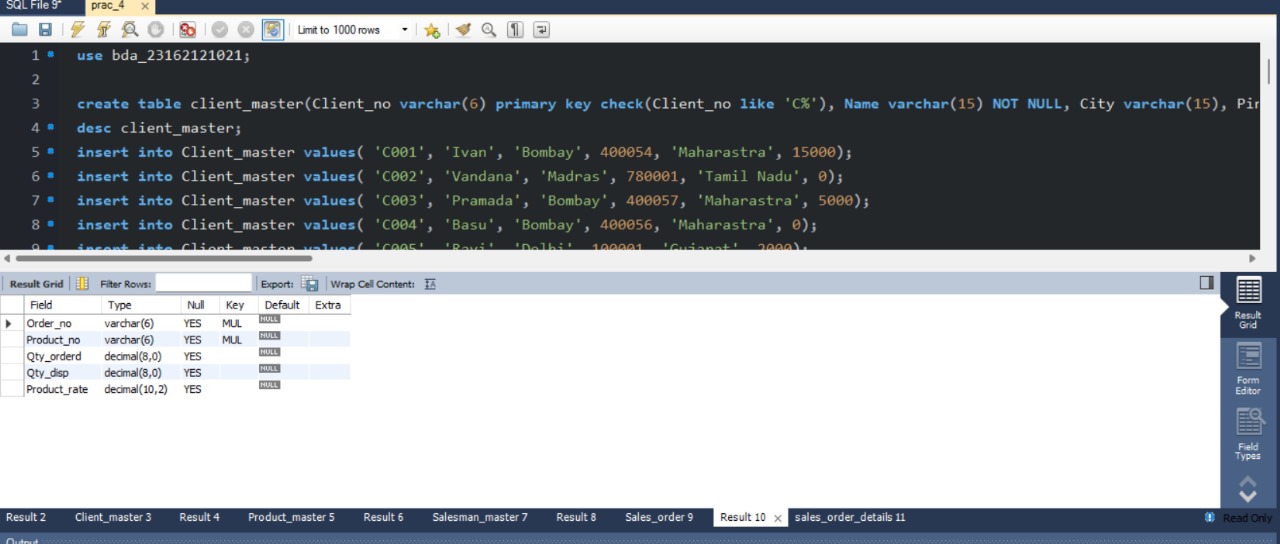
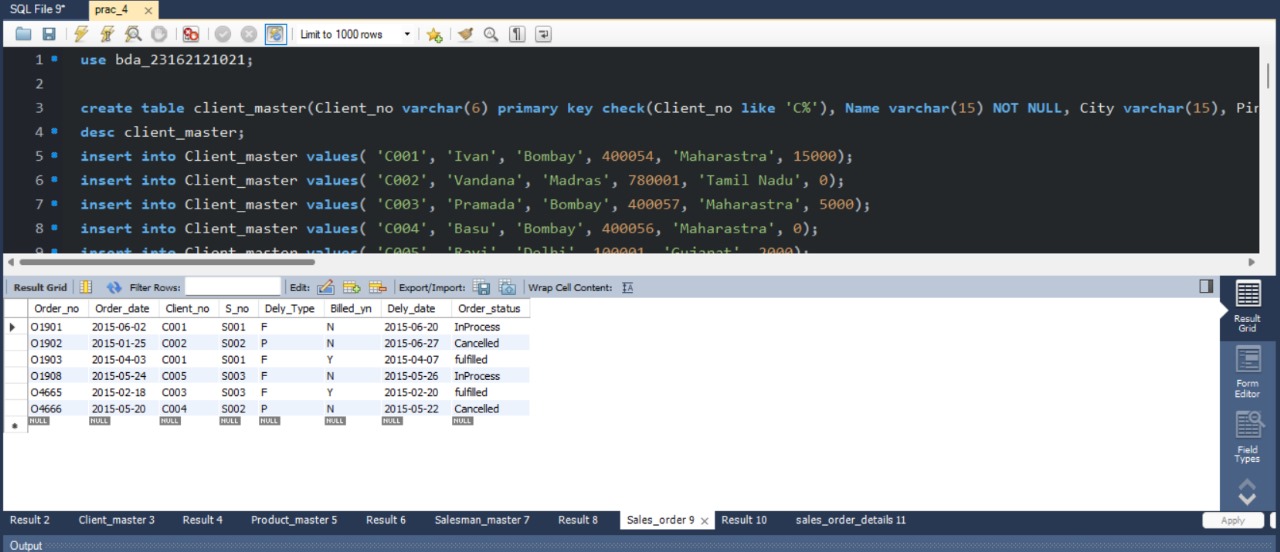
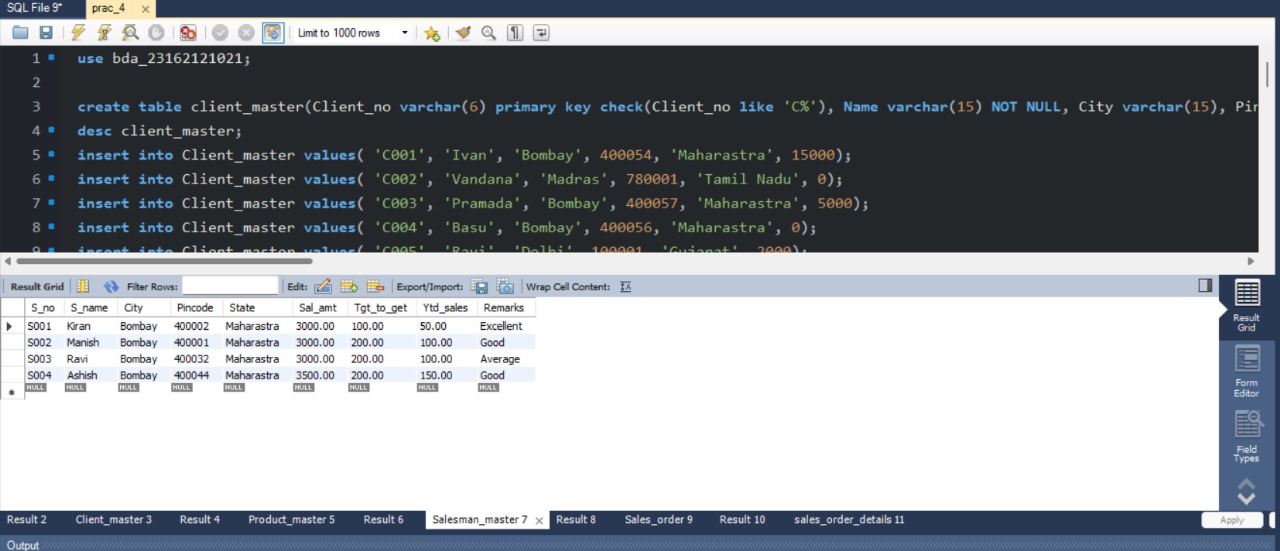
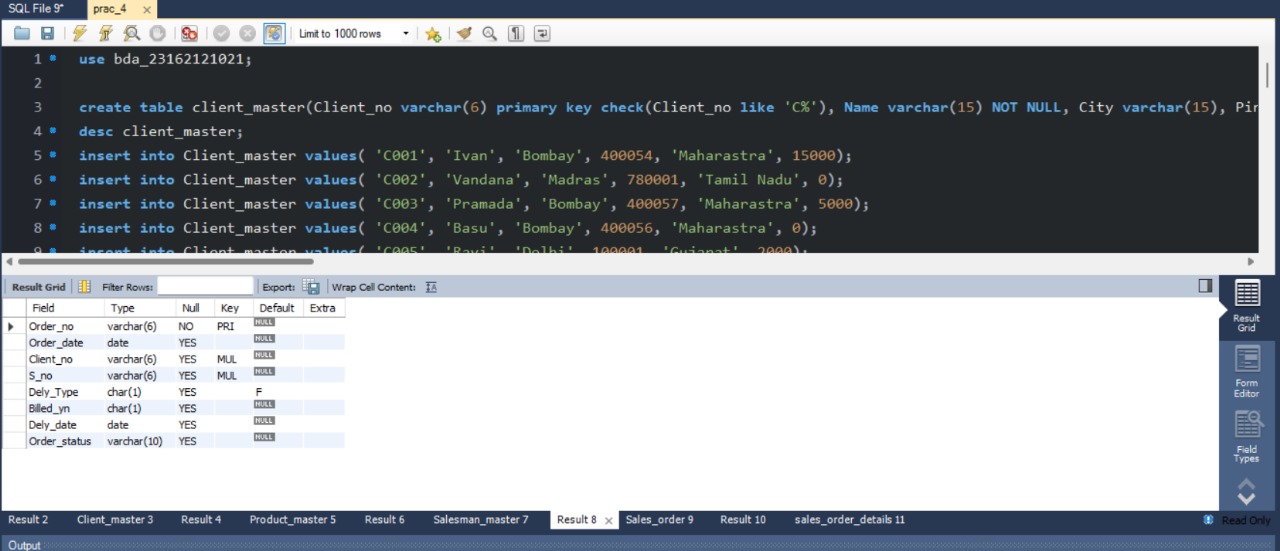
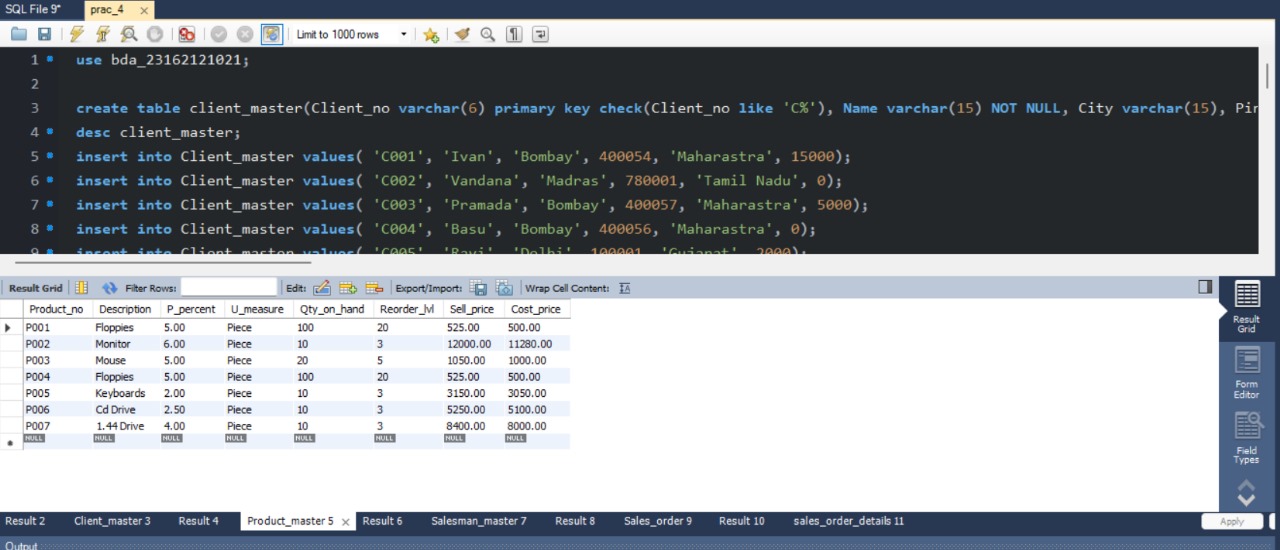
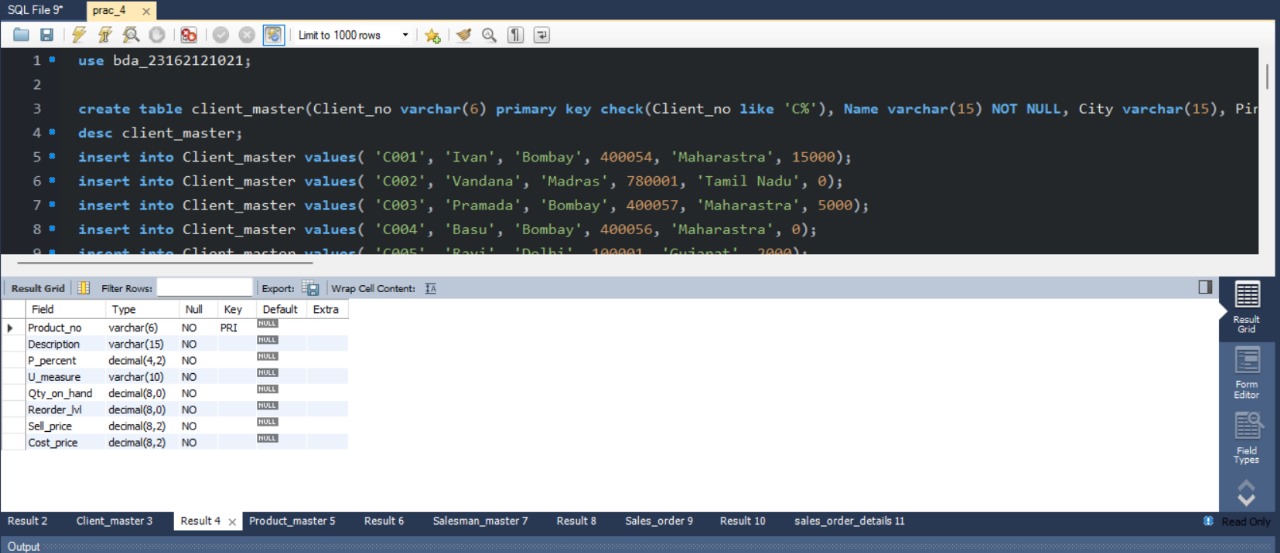
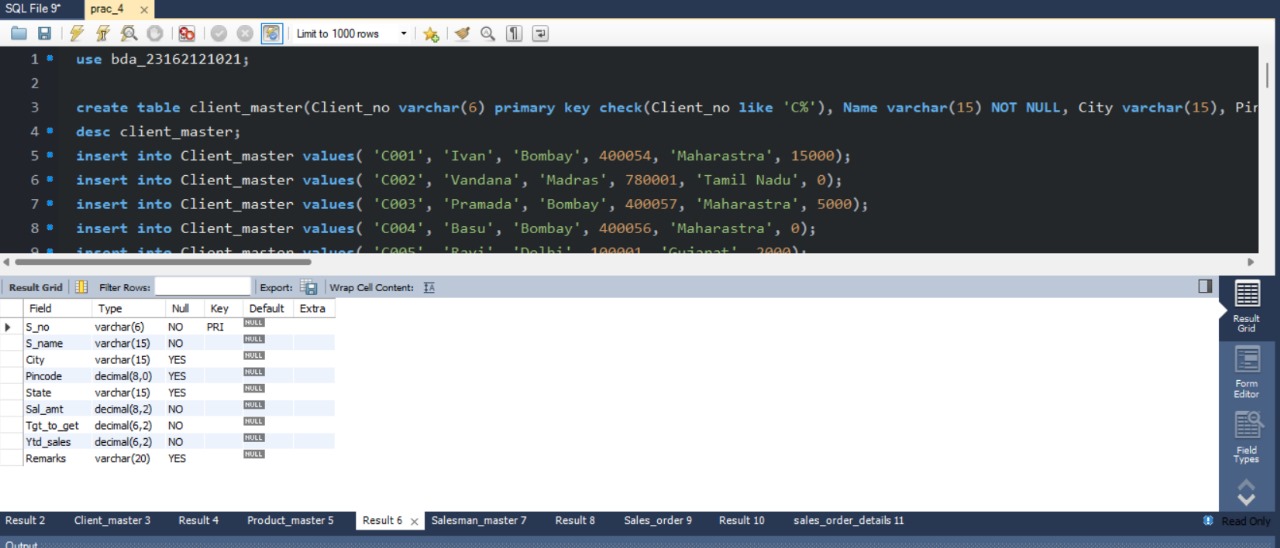
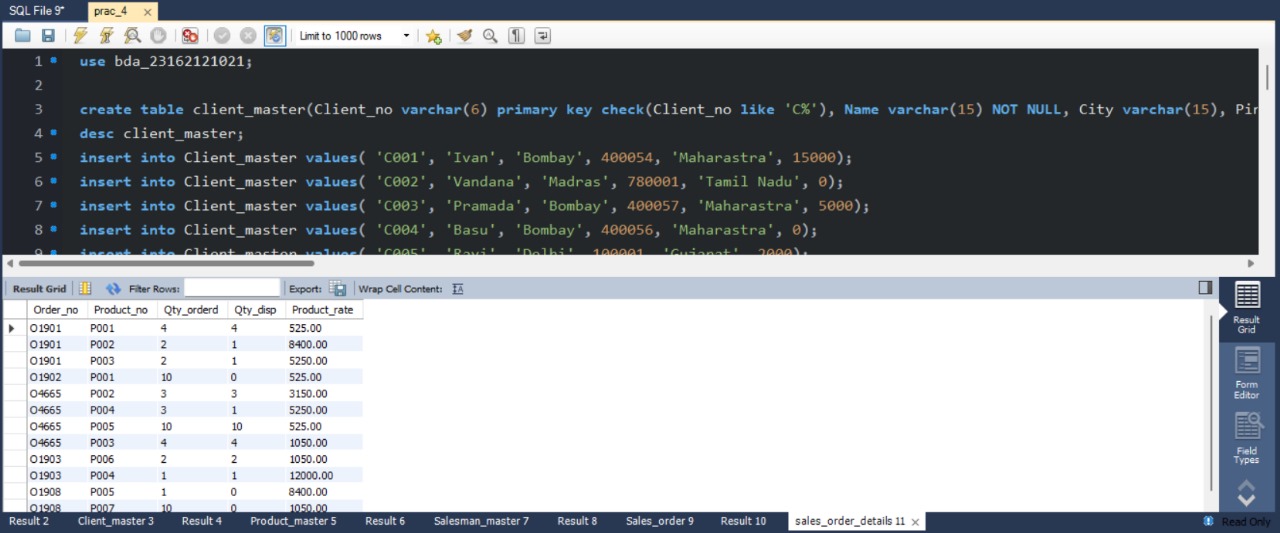
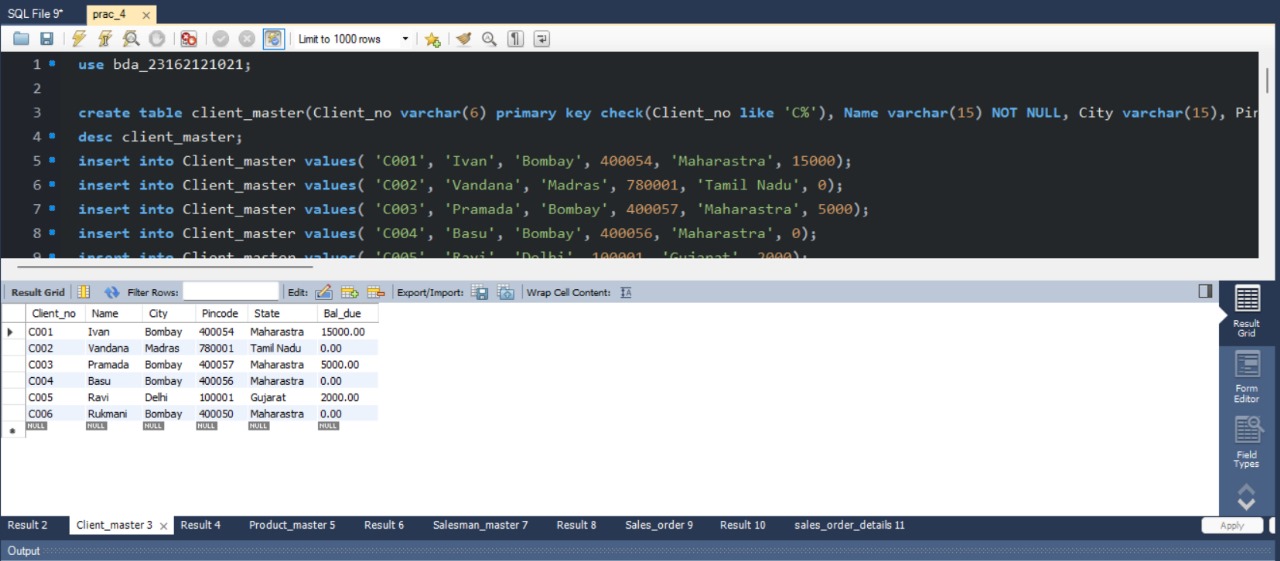
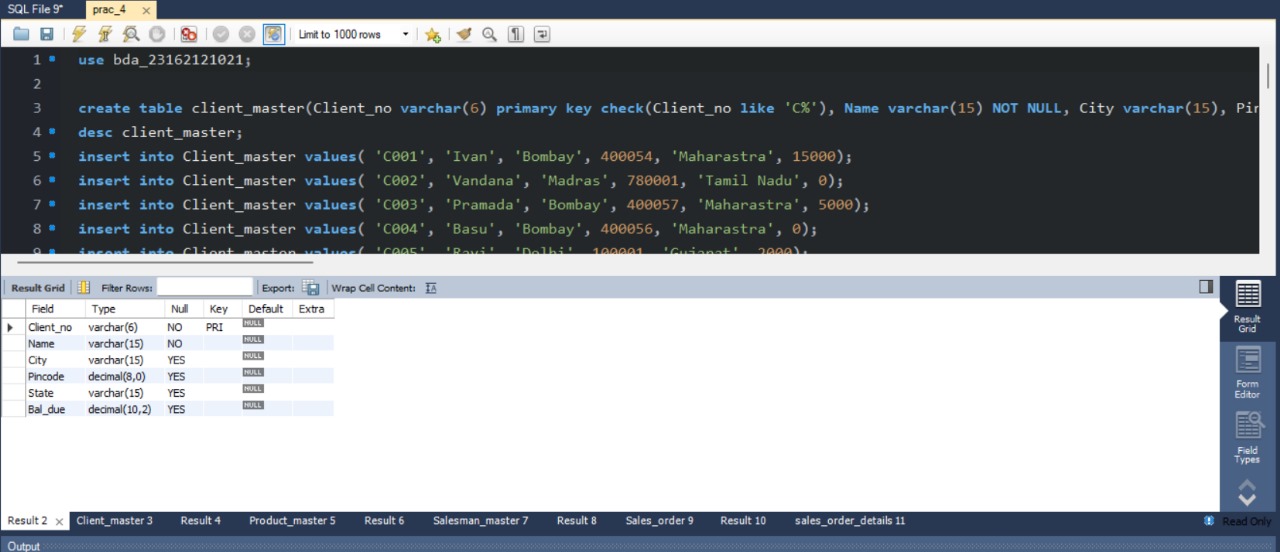
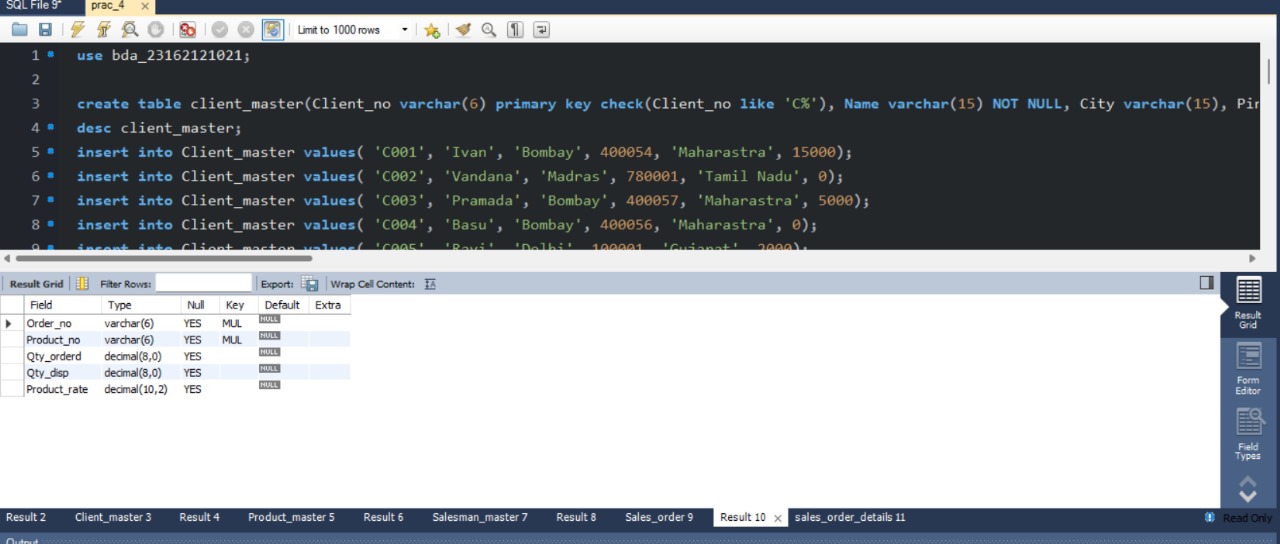
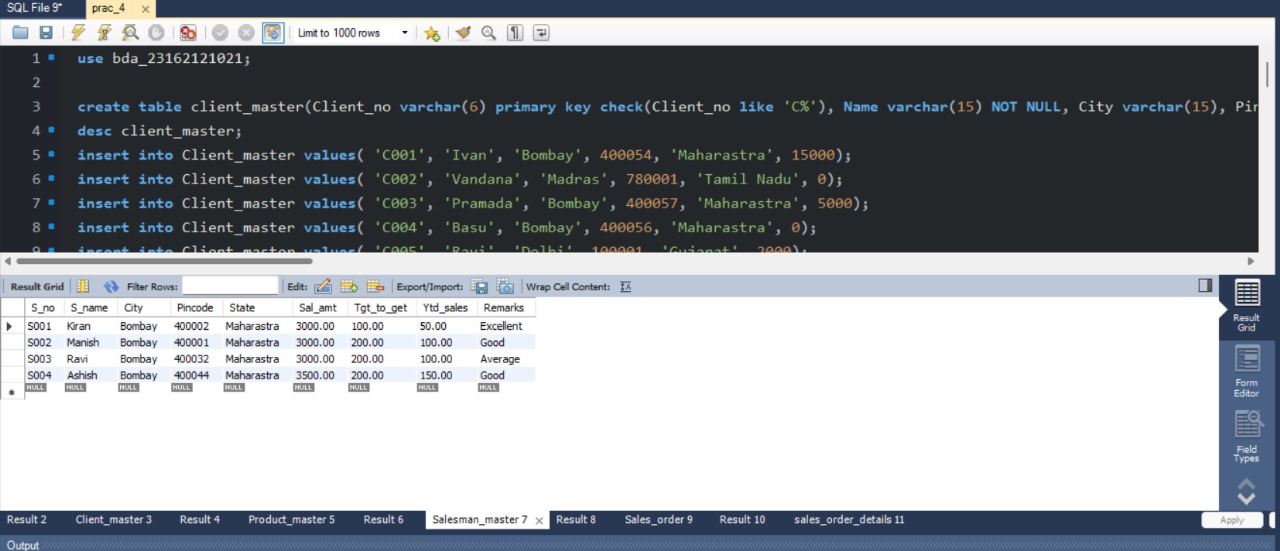
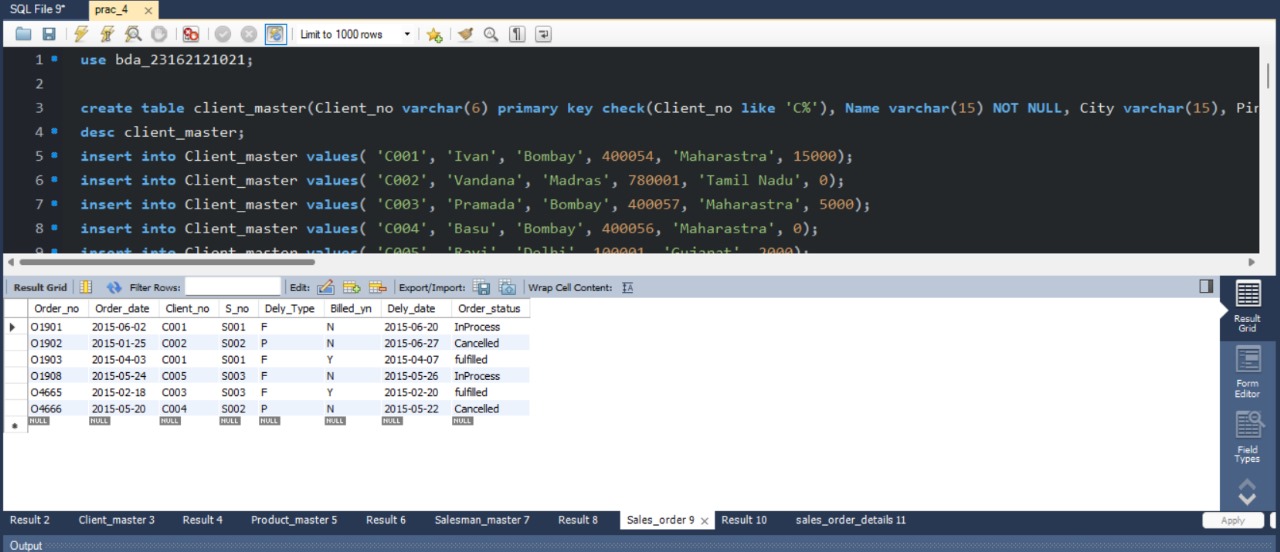
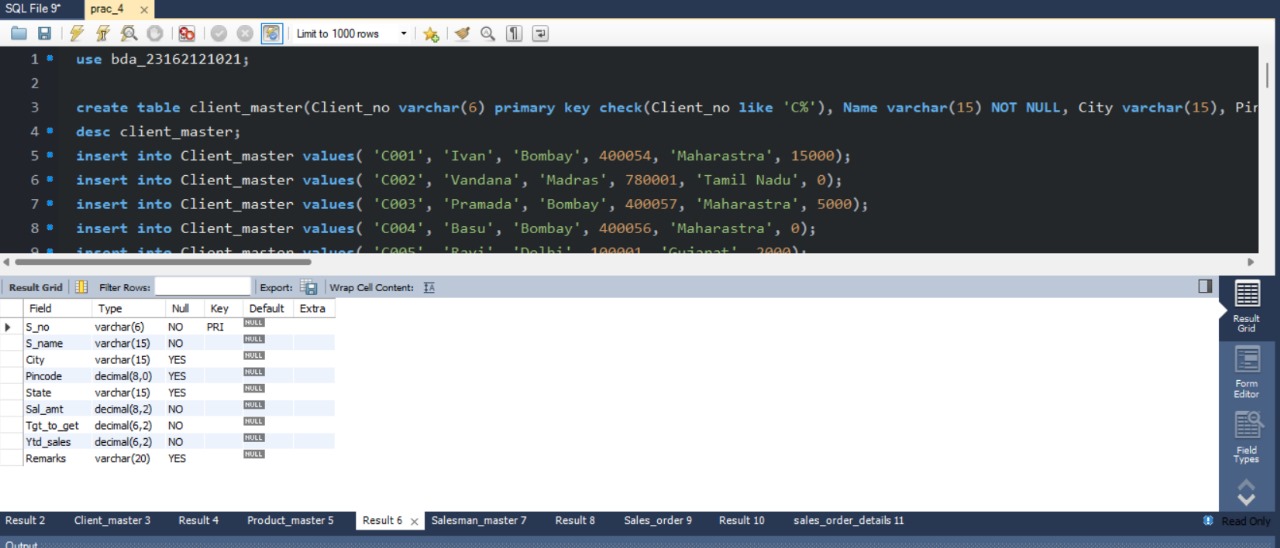
insert into sales\_order\_details values('O1903','P006', 2, 2, 1050);

insert into sales\_order\_details values('O1903','P004', 1, 1, 12000);

insert into sales\_order\_details values('O1908','P005', 1, 0, 8400);

insert into sales\_order\_details values('O1908','P007', 10, 0, 1050);

select \* from sales\_order\_details;

Screenshots:- 

Action logs:- 