

Institute of computer technology

B.Tech-CSE(BDA)

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Sem:-3

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Batch:-31

Sub:-DBMS

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## 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.

Column Name	Data Type	Size	Attributes
Client_no	Varchar	6	Primary key/ first letter must start with 'C'
Name	Varchar	15	Not Null
City	Varchar	15	
Pincode	Numeric	8	
State	Varchar	15	
Bal_due	Numeric	10,2	

Client_no	Name	City	Pincode	State	Bal_due
C001	Ivan	Bombay	400054	Maharashtra	15000
C002	Vandana	Madras	780001	Tamil Nadu	0
C003	Pramada	Bombay	400057	Maharashtra	5000
C004	Basu	Bombay	400056	Maharashtra	0
C005	Ravi	Delhi	100001	Gujarat	2000
C006	Rukmani	Bombay	400050	Maharashtra	0

B) Table Name: Product\_master

Description: Used to store information about products.

Column Name	Data Type	Size	Attributes
Product_no	Varchar	6	Primary key/ first letter must start with '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, cannot be 0			
Cost_price		Numeric	8,2	Not Null, cannot be 0			
Product_ No	Description	P_ Percent	U_ Measure	Qty_on_ hand	Reorder_ Lvl	sell_ price	Cost_ Price
P001	Floppies	5	Piece	100	20	525	500
P002	Monitor	6	Piece	10	3	12000	11280
P003	Mouse	5	Piece	20	5	1050	1000
P004	Floppies	5	Piece	100	20	525	500
P005	Keyboards	2	Piece	10	3	3150	3050
P006	Cd Drive	2.5	Piece	10	3	5250	5100
P007	1.44 Drive	4	Piece	10	3	8400	8000

C) Table Name: Salesman\_master

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

Column Name	Data Type	Size	Attributes
S_no	Varchar	6	Primary key/ first letter must start with 'S'
S_name	Varchar	15	Not Null
City	Varchar	10	
Pincode	Numeric	8	
State	Varchar	12	
Sal_amt	Numeric	8,2	Not Null, cannot be 0
Tgt_to_get	Numeric	6,2	Not Null, cannot be 0
Ytd_sales	Numeric	6,2	Not Null
Remarks	Varchar	20	

S_no	S_name	City	Pincode	State	Sal_Amt	Tgt_to_get	Ytd_Sales	remarks
S001	Kiran	Bombay	400002	Maharashtar	3000	100	50	Excellent
S002	Manish	Bombay	400001	Maharashta	3000	200	100	Good
S003	Ravi	Bombay	400032	Maharashta	3000	200	100	Average
S004	Ashish	Bombay	400044	Maharashta	3500	200	150	Good

D) Table Name: Sales\_order

Description: Used to store client's orders.

Column Name	Data Type	Size	Attributes
Order_no	Varchar	6	Primary key/ first letter must start with 'O'
Order_date	Date		
Client_no	Varchar	6	Foreign key references client_no of client_master table.
S_no	Varchar	6	Foreign key references s_no of salesman_master table.
Dely_type	Char	1	Delivery: part(P) / full (F) Default 'F'
Billed_yn	Char	1	
Dely_date	Date		Cannot be less than order_date
Order_status	Varchar	10	Values('inprocess','fullfiled','backorder','cancelled')

Order_no	Order_date	Client_no	S_no	Dely_type	Billed_yn	Dely_date	Order_status
O1901	12-Jan-06	C001	S001	F	N	20-Jan-06	In Process
O1902	25-Jan-06	C002	S002	P	N	27-Jan-06	Cancelled
O4665	18-feb-06	C003	S003	F	Y	20-Feb-06	Fullfilled
O1903	03-Apr-06	C001	S001	F	Y	07-Apr-06	Fullfield
O4666	20-May-06	C004	S002	P	N	22-May-06	Cancelled
O1908	24-May-06	C005	S003	F	N	26-May-06	In Process

E)Table Name: Sales\_order\_details

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

Column Name	Data Type	Size	Attributes
Order_no	Varchar	6	Primary Key/ Foreign Key references order_no of the sales_order table.
Product_no	Varchar	6	Primary Key/ Foreign Key references product_no of the Product_master table.
Qty_ordered	Numeric	8	
Qty_disp	Numeric	8	
Product_rate	Numeric	10,2	

Order_no	Product_no	Qty_ordered	Qty_disp	Product_rate
O1901	P001	4	4	525
O1901	P002	2	1	8400
O1901	P003	2	1	5250
O1902	P001	10	0	525
O4665	P002	3	3	3150
O4665	P004	3	1	5250
O4665	P005	10	10	525
O4665	P003	4	4	1050

O1903	P006	2	2	1050
O1903	P004	1	1	12000
O1908	P005	1	0	8400
O1908	P007	10	0	1050

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:-

The first screenshot shows the SQL script for creating the 'client\_master' table and inserting client data. The table structure is as follows:

Field	Type	Null	Key	Default	Extra
S_no	varchar(6)	NO	PRI		
S_name	varchar(15)	NO			
City	varchar(15)	YES			
Pincode	decimal(8,0)	YES			
State	varchar(15)	YES			
Sal_amt	decimal(8,2)	NO			
Tgt_to_get	decimal(6,2)	NO			
Ytd_sales	decimal(6,2)	NO			
Remarks	varchar(20)	YES			

The second screenshot shows the 'sales\_order\_details' table with the following data:

Order_no	Order_date	Client_no	S_no	Dely_Type	Billed_yn	Dely_date	Order_status
O1901	2015-06-02	C001	S001	F	N	2015-06-20	InProcess
O1902	2015-01-25	C002	S002	P	N	2015-06-27	Cancelled
O1903	2015-04-03	C001	S001	F	Y	2015-04-07	fulfilled
O1908	2015-05-24	C005	S003	F	N	2015-05-26	InProcess
O4665	2015-02-18	C003	S003	F	Y	2015-02-20	fulfilled
O4666	2015-05-20	C004	S002	P	N	2015-05-22	Cancelled



SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Bavli', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: I

S_no	S_name	City	Pincode	State	Sal_amt	Tgt_to_get	Ytd_sales	Remarks
S001	Kiran	Bombay	400002	Maharashtra	3000.00	100.00	50.00	Excellent
S002	Manish	Bombay	400001	Maharashtra	3000.00	200.00	100.00	Good
S003	Ravi	Bombay	400032	Maharashtra	3000.00	200.00	100.00	Average
S004	Ashish	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 x Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Apply

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Bavli', 'Delhi', 100001, 'Gujarat', 2000);

```

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

Field	Type	Null	Key	Default	Extra
Order_no	varchar(6)	YES	MUL	NULL	
Product_no	varchar(6)	YES	MUL	NULL	
Qty_order	decimal(8,0)	YES		NULL	
Qty_disp	decimal(8,0)	YES		NULL	
Product_rate	decimal(10,2)	YES		NULL	

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Read Only

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Bavli', 'Delhi', 100001, 'Gujarat', 2000);

```

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

Field	Type	Null	Key	Default	Extra
Client_no	varchar(6)	NO	PRI	NULL	
Name	varchar(15)	NO		NULL	
City	varchar(15)	YES		NULL	
Pincode	decimal(8,0)	YES		NULL	
State	varchar(15)	YES		NULL	
Bal_due	decimal(10,2)	YES		NULL	

Result 2 x Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Read Only

SQL File 9" **prac\_4** x

Limit to 1000 rows

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

Client_no	Name	City	Pincode	State	Bal_due
C001	Ivan	Bombay	400054	Maharashtra	15000.00
C002	Vandana	Madras	780001	Tamil Nadu	0.00
C003	Pramada	Bombay	400057	Maharashtra	5000.00
C004	Basu	Bombay	400056	Maharashtra	0.00
C005	Ravi	Delhi	100001	Gujarat	2000.00
C006	Rukmani	Bombay	400050	Maharashtra	0.00

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

SQL File 9" **prac\_4** x

Limit to 1000 rows

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

Order_no	Product_no	Qty_order	Qty_disp	Product_rate
O1901	P001	4	4	\$25.00
O1901	P002	2	1	\$400.00
O1901	P003	2	1	\$250.00
O1902	P001	10	0	\$25.00
O4665	P002	3	3	\$150.00
O4665	P004	3	1	\$250.00
O4665	P005	10	10	\$25.00
O4665	P003	4	4	\$1050.00
O1903	P006	2	2	\$1050.00
O1903	P004	1	1	\$12000.00
O1908	P005	1	0	\$400.00
O1908	P007	10	0	\$1050.00

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

SQL File 9" **prac\_4** x

Limit to 1000 rows

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

Field	Type	Null	Key	Default	Extra
S_no	varchar(6)	NO	PRI		
S_name	varchar(15)	NO			
City	varchar(15)	YES			
Pincode	decimal(8,0)	YES			
State	varchar(15)	YES			
Sal_amt	decimal(8,2)	NO			
Tgt_to_get	decimal(8,2)	NO			
Ytd_sales	decimal(8,2)	NO			
Remarks	varchar(20)	YES			

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

SQL File 9" prac\_4

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), P
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Export: Wrap Cell Contents: I

Field	Type	Null	Key	Default	Extra
Product_no	varchar(6)	NO	PRI	NULL	
Description	varchar(15)	NO		NULL	
P_percent	decimal(4,2)	NO		NULL	
U_measure	varchar(10)	NO		NULL	
Qty_on_hand	decimal(8,0)	NO		NULL	
Reorder_lvl	decimal(8,0)	NO		NULL	
Sell_price	decimal(8,2)	NO		NULL	
Cost_price	decimal(8,2)	NO		NULL	

Result 2 Client\_master 3 Result 4 x Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

Output

SQL File 9" prac\_4

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), P
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Edit Export/Import: Wrap Cell Contents: I

Product_no	Description	P_percent	U_measure	Qty_on_hand	Reorder_lvl	Sell_price	Cost_price
P001	Floppies	5.00	Piece	100	20	525.00	500.00
P002	Monitor	6.00	Piece	10	3	12000.00	11280.00
P003	Mouse	5.00	Piece	20	5	1050.00	1000.00
P004	Floppies	5.00	Piece	100	20	525.00	500.00
P005	Keyboards	2.00	Piece	10	3	3150.00	3050.00
P006	Cd Drive	2.50	Piece	10	3	5250.00	5100.00
P007	1.44 Drive	4.00	Piece	10	3	8400.00	8000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result 2 Client\_master 3 Result 4 Product\_master 5 x Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

Output

SQL File 9" prac\_4

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), P
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Export: Wrap Cell Contents: I

Field	Type	Null	Key	Default	Extra
Order_no	varchar(6)	NO	PRI	NULL	
Order_date	date	YES		NULL	
Client_no	varchar(6)	YES	MUL	NULL	
S_no	varchar(6)	YES	MUL	NULL	
Dely_Type	char(1)	YES		F	
Billed_yn	char(1)	YES		NULL	
Dely_date	date	YES		NULL	
Order_status	varchar(10)	YES		NULL	

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 x Sales\_order 9 Result 10 sales\_order\_details 11

Output



SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

S_no	S_name	City	Pincode	State	Sal_amt	Tgt_to_get	Ytd_sales	Remarks
S001	Kiran	Bombay	400002	Maharashtra	3000.00	100.00	50.00	Excellent
S002	Manish	Bombay	400001	Maharashtra	3000.00	200.00	100.00	Good
S003	Ravi	Bombay	400032	Maharashtra	3000.00	200.00	100.00	Average
S004	Ashish	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 x Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

Order_no	Order_date	Client_no	S_no	Dely_Type	Billed_yn	Dely_date	Order_status
O1901	2015-06-02	C001	S001	F	N	2015-06-20	InProcess
O1902	2015-01-25	C002	S002	P	N	2015-06-27	Cancelled
O1903	2015-04-03	C001	S001	F	Y	2015-04-07	fulfilled
O1908	2015-05-24	C005	S003	F	N	2015-05-26	InProcess
O4665	2015-02-18	C003	S003	F	Y	2015-02-20	fulfilled
O4666	2015-05-20	C004	S002	P	N	2015-05-22	Cancelled

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 x Result 10 sales\_order\_details 11

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid

Field	Type	Null	Key	Default	Extra
Order_no	varchar(6)	YES	MUL		
Product_no	varchar(6)	YES	MUL		
Qty_order	decimal(8,0)	YES			
Qty_dsp	decimal(8,0)	YES			
Product_rate	decimal(10,2)	YES			

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 x sales\_order\_details 11

SQL File 9\* prac\_4 x

1 use bda\_23162121021;

2

3 create table client\_master(client\_no varchar(6) primary key check(Client\_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin

4 desc client\_master;

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

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

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

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

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

Result Grid Filter Rows: Exports: Wrap Cell Contents: I

Field	Type	Null	Key	Default	Extra
Client_no	varchar(6)	NO	PRI	NULL	
Name	varchar(15)	NO		NULL	
City	varchar(15)	YES		NULL	
Pincode	decimal(8,0)	YES		NULL	
State	varchar(15)	YES		NULL	
Bal_due	decimal(10,2)	YES		NULL	

Result 2 x Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Read Only

Output

SQL File 9\* prac\_4 x

1 use bda\_23162121021;

2

3 create table client\_master(client\_no varchar(6) primary key check(Client\_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin

4 desc client\_master;

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

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

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

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

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

Result Grid Filter Rows: Exports: Wrap Cell Contents: I

Field	Type	Null	Key	Default	Extra
Product_no	varchar(6)	NO	PRI	NULL	
Description	varchar(15)	NO		NULL	
P_percent	decimal(4,2)	NO		NULL	
U_measure	varchar(10)	NO		NULL	
Qty_on_hand	decimal(8,0)	NO		NULL	
Reorder_hl	decimal(8,0)	NO		NULL	
Sell_price	decimal(8,2)	NO		NULL	
Cost_price	decimal(8,2)	NO		NULL	

Result 2 Client\_master 3 Result 4 x Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Read Only

Output

SQL File 9\* prac\_4 x

1 use bda\_23162121021;

2

3 create table client\_master(client\_no varchar(6) primary key check(Client\_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin

4 desc client\_master;

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

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

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

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

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

Result Grid Filter Rows: Exports/Imports: Wrap Cell Contents: I

Product_no	Description	P_percent	U_measure	Qty_on_hand	Reorder_hl	Sell_price	Cost_price
P001	Floppies	5.00	Piece	100	20	525.00	500.00
P002	Monitor	6.00	Piece	10	3	12000.00	11280.00
P003	Mouse	5.00	Piece	20	5	1050.00	1000.00
P004	Floppies	5.00	Piece	100	20	525.00	500.00
P005	Keyboards	2.00	Piece	10	3	3150.00	3050.00
P006	Cd Drive	2.50	Piece	10	3	5250.00	5100.00
P007	1.44 Drive	4.00	Piece	10	3	8400.00	8000.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result 2 Client\_master 3 Result 4 Product\_master 5 x Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 Apply

Output

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Exports: Wrap Cell Content: I

Order_no	Product_no	Qty_orderd	Qty_dsp	Product_rate
O1901	P001	4	4	525.00
O1901	P002	2	1	8400.00
O1901	P003	2	1	5250.00
O1902	P001	10	0	525.00
O4665	P002	3	3	3150.00
O4665	P004	3	1	5250.00
O4665	P005	10	10	525.00
O4665	P003	4	4	1050.00
O1903	P006	2	2	1050.00
O1903	P004	1	1	12000.00
O1908	P005	1	0	8400.00
O1908	P007	10	0	1050.00

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11 x

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Exports: Wrap Cell Content: I

Field	Type	Null	Key	Default	Extra
Order_no	varchar(6)	NO	PRI		
Order_date	date	YES			
Client_no	varchar(6)	YES	MUL		
S_no	varchar(6)	YES	MUL		
Dely_Type	char(1)	YES		F	
Billed_yn	char(1)	YES			
Dely_date	date	YES			
Order_status	varchar(10)	YES			

Result 2 Client\_master 3 Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

SQL File 9" prac\_4 x

```

1 use bda_23162121021;
2
3 create table client_master(Client_no varchar(6) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL, City varchar(15), Pin
4 desc client_master;
5 insert into Client_master values( 'C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
6 insert into Client_master values( 'C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
7 insert into Client_master values( 'C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
8 insert into Client_master values( 'C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
9 insert into Client_master values( 'C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);

```

Result Grid Filter Rows: Edit: Export/Imports: Wrap Cell Content: I

Client_no	Name	City	Pincode	State	Bal_due
C001	Ivan	Bombay	400054	Maharashtra	15000.00
C002	Vandana	Madras	780001	Tamil Nadu	0.00
C003	Pramada	Bombay	400057	Maharashtra	5000.00
C004	Basu	Bombay	400056	Maharashtra	0.00
C005	Ravi	Delhi	100001	Gujarat	2000.00
C006	Rukmani	Bombay	400050	Maharashtra	0.00

Result 2 Client\_master 3 x Result 4 Product\_master 5 Result 6 Salesman\_master 7 Result 8 Sales\_order 9 Result 10 sales\_order\_details 11

Output



## Action logs:-

Output			
Action Output			
#	Time	Action	Message
65	10:05:27	create table client_master(Client_no varchar(5) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL)	0 row(s) affected
66	10:05:27	desc client_master	6 row(s) returned
67	10:05:27	insert into Client_master values('C001','Ivan','Bombay',400054,'Maharashtra',15000)	1 row(s) affected
68	10:05:27	insert into Client_master values('C002','Vandana','Madras',780001,'Tamil Nadu',0)	1 row(s) affected
69	10:05:27	insert into Client_master values('C003','Pramada','Bombay',400057,'Maharashtra',5000)	1 row(s) affected
70	10:05:27	insert into Client_master values('C004','Basu','Bombay',400056,'Maharashtra',0)	1 row(s) affected
71	10:05:27	insert into Client_master values('C005','Ravi','Delhi',100001,'Gujarat',2000)	1 row(s) affected
72	10:05:27	insert into Client_master values('C006','Rukmani','Bombay',400050,'Maharashtra',0)	1 row(s) affected
73	10:05:27	select * from Client_master LIMIT 0, 1000	6 row(s) returned
74	10:05:27	create table product_master(Product_no varchar(5) primary key check(Product_no like 'P%'), Description varchar(15) NOT NULL)	0 row(s) affected
75	10:05:27	desc product_master	8 row(s) returned
76	10:05:27	insert into Product_master values('P001','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected
77	10:05:27	insert into Product_master values('P002','Monitor',6,'Piece',10,3,12000,11280)	1 row(s) affected
78	10:05:27	insert into Product_master values('P003','Mouse',5,'Piece',20,5,1050,1000)	1 row(s) affected
79	10:05:27	insert into Product_master values('P004','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected
80	10:05:27	insert into Product_master values('P005','Keyboards',2,'Piece',10,3,3150,3050)	1 row(s) affected
81	10:05:27	insert into Product_master values('P006','Cd Drive',2.5,'Piece',10,3,5250,5100)	1 row(s) affected
82	10:05:27	insert into Product_master values('P007','1.44 Drive',4,'Piece',10,3,8400,8000)	1 row(s) affected
83	10:05:27	select * from Product_master LIMIT 0, 1000	7 row(s) returned
84	10:05:27	create table salesman_master(S_no varchar(5) primary key check(S_no like 'S%'), S_name varchar(15) NOT NULL)	0 row(s) affected
85	10:05:27	desc salesman_master	9 row(s) returned
86	10:05:27	insert into Salesman_master values('S001','Kiran','Bombay',400002,'Maharashtra',3000,100,50,'Excellent')	1 row(s) affected
87	10:05:27	insert into Salesman_master values('S002','Manish','Bombay',400001,'Maharashtra',3000,200,100,'Good')	1 row(s) affected
88	10:05:27	insert into Salesman_master values('S003','Ravi','Bombay',400032,'Maharashtra',3000,200,100,'Average')	1 row(s) affected

Output			
Action Output			
#	Time	Action	Message
65	10:05:27	create table client_master(Client_no varchar(5) primary key check(Client_no like 'C%'), Name varchar(15) NOT NULL)	0 row(s) affected
66	10:05:27	desc client_master	6 row(s) returned
67	10:05:27	insert into Client_master values('C001','Ivan','Bombay',400054,'Maharashtra',15000)	1 row(s) affected
68	10:05:27	insert into Client_master values('C002','Vandana','Madras',780001,'Tamil Nadu',0)	1 row(s) affected
69	10:05:27	insert into Client_master values('C003','Pramada','Bombay',400057,'Maharashtra',5000)	1 row(s) affected
70	10:05:27	insert into Client_master values('C004','Basu','Bombay',400056,'Maharashtra',0)	1 row(s) affected
71	10:05:27	insert into Client_master values('C005','Ravi','Delhi',100001,'Gujarat',2000)	1 row(s) affected
72	10:05:27	insert into Client_master values('C006','Rukmani','Bombay',400050,'Maharashtra',0)	1 row(s) affected
73	10:05:27	select * from Client_master LIMIT 0, 1000	6 row(s) returned
74	10:05:27	create table product_master(Product_no varchar(5) primary key check(Product_no like 'P%'), Description varchar(15) NOT NULL)	0 row(s) affected
75	10:05:27	desc product_master	8 row(s) returned
76	10:05:27	insert into Product_master values('P001','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected
77	10:05:27	insert into Product_master values('P002','Monitor',6,'Piece',10,3,12000,11280)	1 row(s) affected
78	10:05:27	insert into Product_master values('P003','Mouse',5,'Piece',20,5,1050,1000)	1 row(s) affected
79	10:05:27	insert into Product_master values('P004','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected
80	10:05:27	insert into Product_master values('P005','Keyboards',2,'Piece',10,3,3150,3050)	1 row(s) affected
81	10:05:27	insert into Product_master values('P006','Cd Drive',2.5,'Piece',10,3,5250,5100)	1 row(s) affected
82	10:05:27	insert into Product_master values('P007','1.44 Drive',4,'Piece',10,3,8400,8000)	1 row(s) affected
83	10:05:27	select * from Product_master LIMIT 0, 1000	7 row(s) returned
84	10:05:27	create table salesman_master(S_no varchar(5) primary key check(S_no like 'S%'), S_name varchar(15) NOT NULL)	0 row(s) affected
85	10:05:27	desc salesman_master	9 row(s) returned
86	10:05:27	insert into Salesman_master values('S001','Kiran','Bombay',400002,'Maharashtra',3000,100,50,'Excellent')	1 row(s) affected
87	10:05:27	insert into Salesman_master values('S002','Manish','Bombay',400001,'Maharashtra',3000,200,100,'Good')	1 row(s) affected
88	10:05:27	insert into Salesman_master values('S003','Ravi','Bombay',400032,'Maharashtra',3000,200,100,'Average')	1 row(s) affected