**Chapter 7 :**

CREATE TABLE `client\_master` (

  `client\_no` varchar(6)   ,

  `name` varchar(20)  ,

  `address1` varchar(30) ,

  `address2` varchar(30),

  `city` varchar(15)   ,

  `pincode` int  ,

  `state` varchar(15)  ,

  `baldue` decimal( 10,2)

);

CREATE TABLE `product\_master` (

  `product\_no` varchar(6)   ,

  `description` varchar(15)  ,

  `profit\_percent` decimal( 4,2)  ,

  `unit\_measure` varchar(10)  ,

  `qty\_on\_head` int  ,

  `re\_order\_lvl` int  ,

  `sell\_price` decimal( 8,2)  ,

  `cost\_price` decimal( 8,2)

);

CREATE TABLE `salesman\_master` (

  `salesman\_no` varchar(6)   ,

  `salesman\_name` varchar(20)   ,

  `address1` varchar(30)   ,

  `address2` varchar(30)  ,

  `city` varchar(20)  ,

  `pincode` int  ,

  `state` varchar(20)  ,

  `sal\_amt` decimal( 8,2)  ,

  `tgt\_to\_get` decimal( 6,2)  ,

  `ytd\_sales` decimal( 6,2)  ,

  `remarks` varchar(60)

);

INSERT INTO `client\_master` (`client\_no`,`name`,`city`,`pincode`,`state`,`baldue`) Values

('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000),

('C00002', 'Mamta Muzumdar','Madras', 780001, 'Tamil Nadu', 0),

('C00003', 'Chhaya Bankar', 'Mumbar', 400057, 'Maharashtra', 5000),

('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0),

('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000),

('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);

INSERT INTO `product\_master` (`product\_no`,`description`,`profit\_percent`,`unit\_measure`,`qty\_on\_head`,`re\_order\_lvl`,`sell\_price`,`cost\_price`)

values

('P00001', 'T-Shirts', 5, 'Piece', 200, 50, 350, 250),

('P03453', 'Shirts', 6, 'Piece', 150, 50, 500, 350),

('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450),

('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500),

('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550),

('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450),

('P07965', 'Denim Shirts', 4, 'Piece', 100, 40, 350, 250),

('P07975', 'Lycra Tops', 5, 'Piece', 70, 30, 300, 175),

('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);

INSERT INTO `salesman\_master` (`salesman\_no`,`salesman\_name`,`address1`,`address2`,`city`,`pincode`,`state`,`sal\_amt`,`tgt\_to\_get`,`ytd\_sales`,`remarks`)

VALUES

('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002,'Maharashtra', 3000, 100,50,'Good'),

('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra', 3000, 200,100,'Good'),

('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra', 3000, 200,100,'Good'),

('S00004', 'Ashish', 'A/5', 'Juhu', 'Bombay', 400044,'Maharashtra', 3500, 200,150,'Good');

select name from client\_master;

select \* from client\_master;

Select name,city,state from client\_master;

select description from product\_master;

select \* from client\_master where city = 'Mumbai';

Select salesman\_name from salesman\_master where sal\_amt=3000;

Update client\_master set city='bangalore' where client\_no='C00005';

Update client\_master set baldue =1000 where client\_no='C00001';

Update product\_master set cost\_price=950 where description='Trousers';

Update client\_master set city='Pune';

Delete from salesman\_master  where sal\_amt=3500;

Delete from product\_master  where qty\_on\_head=100;

Delete from client\_master where state='Tamil Nadu';

Alter table client\_master add telephone int;

Alter table product\_master MODIFY sell\_price decimal( 10,2);

Drop table client\_master;

Alter table  salesman\_master rename sman\_mast;

**Chapter 8 :**

create database db\_lab\_1;

use db\_lab\_1;

CREATE TABLE `client\_master` (

`client\_no` varchar(6)   ,

  `name` varchar(20)  ,

  `address1` varchar(30) ,

  `address2` varchar(30),

  `city` varchar(15)   ,

  `pincode` int  ,

  `state` varchar(15)  ,

  `baldue` decimal( 10,2),

  PRIMARY KEY (client\_no),

  CONSTRAINT chk CHECK(client\_no like 'C%')

);

CREATE TABLE `product\_master` (

  `product\_no` varchar(6)   NOT NULL,

  `description` varchar(15)  NOT NULL ,

  `profit\_percent`  decimal( 4,2)    NOT NULL ,

  `unit\_measure` varchar(10)   NOT NULL,

  `qty\_on\_head` int  NOT NULL ,

  `re\_order\_lvl` int   NOT NULL,

  `sell\_price`  decimal( 8,2)  NOT NULL ,

  `cost\_price`  decimal( 8,2)  NOT NULL ,

  PRIMARY KEY (product\_no),

  CONSTRAINT chk\_product CHECK(product\_no like 'P%'),

  CONSTRAINT chk\_sell CHECK(sell\_price <> 0),

  CONSTRAINT chk\_cost CHECK(cost\_price <> 0)

);

CREATE TABLE `salesman\_master` (

  `salesman\_no` varchar(6)   NOT NULL ,

  `salesman\_name` varchar(20)    NOT NULL,

  `address1` varchar(30)   NOT NULL ,

  `address2` varchar(30)  ,

  `city` varchar(20)  ,

  `pincode` int  ,

  `state` varchar(20)  ,

  `sal\_amt` decimal( 8,2)  NOT NULL,

  `tgt\_to\_get` decimal( 6,2)  NOT NULL,

  `ytd\_sales` decimal( 6,2) NOT NULL ,

  `remarks` varchar(60)   ,

  PRIMARY KEY (salesman\_no),

  CONSTRAINT chk\_sales CHECK(salesman\_no  like 'S%'),

   CONSTRAINT chk\_salamt CHECK(sal\_amt <> 0),

   CONSTRAINT chk\_tgt CHECK(tgt\_to\_get <> 0)

);

CREATE TABLE `sales\_order` (

  `order\_no` varchar(6)  NOT NULL ,

  `client\_no` varchar(6),

  `order\_date` date NOT NULL ,

  `dely\_addr` varchar(25) ,

  `salesman\_no` varchar(6)  ,

  `dely\_type` char(1)  DEFAULT 'F' ,

  `bill\_status` char(1) ,

  `dely\_date` date,

  `order\_status` varchar(10)  NOT NULL,

  PRIMARY KEY (order\_no),

  FOREIGN KEY (client\_no) REFERENCES client\_master(client\_no),

  FOREIGN KEY (salesman\_no) REFERENCES salesman\_master(salesman\_no),

  CONSTRAINT chk\_dtype CHECK(dely\_type IN ('P', 'F')),

   CONSTRAINT chk\_ostatus CHECK(order\_status IN ('In Process', 'Fulfilled', 'Back Order', 'Cancelled')),

  CONSTRAINT chk\_order CHECK(order\_no  like 'O%')

);

CREATE TABLE `sales\_order\_details` (

  `order\_no` varchar(6)  NOT NULL ,

  `product\_no` varchar(6) ,

  `qty\_ordered` int ,

  `qty\_disp`int,

  `product\_rate`decimal( 10,2) ,

  FOREIGN KEY (order\_no) REFERENCES sales\_order(order\_no),

  FOREIGN KEY (product\_no) REFERENCES product\_master(product\_no)

);

insert into client\_master select \* from db\_lab.client\_master;

insert into product\_master select \* from db\_lab.product\_master;

insert into salesman\_master select \* from db\_lab.salesman\_master;

INSERT INTO `db\_lab\_1`.`sales\_order`(`order\_no`,`order\_date`,`client\_no`,`dely\_type`,`bill\_status`,`salesman\_no`,`dely\_date`,`order\_status`)

VALUES

('O19001', STR\_TO\_DATE('12-June-02', '%d-%M-%y'), 'C00001', 'F', 'N', 'S00001', STR\_TO\_DATE('20-July-02', '%d-%M-%y'), 'In Process'),

('O19002', STR\_TO\_DATE('25-June-02', '%d-%M-%y'), 'C00002', 'P', 'N', 'S00002', STR\_TO\_DATE('27-July-02', '%d-%M-%y'), 'Cancelled'),

('O19005', STR\_TO\_DATE('18-Feb-02', '%d-%M-%y'), 'C00003', 'F', 'Y', 'S00003', STR\_TO\_DATE('20-Feb-02', '%d-%M-%y'), 'Fulfilled'),

('O19003', STR\_TO\_DATE('03-Apr-02', '%d-%M-%y'), 'C00001', 'F', 'Y', 'S00001', STR\_TO\_DATE('07-Apr-02', '%d-%M-%y'), 'Fulfilled'),

('O46866', STR\_TO\_DATE('20-May-02', '%d-%M-%y'), 'C00004', 'P', 'N', 'S00002', STR\_TO\_DATE('22-May-02', '%d-%M-%y'), 'Cancelled'),

('O19008', STR\_TO\_DATE('24-May-04', '%d-%M-%y'), 'C00005', 'F', 'N', 'S00004', STR\_TO\_DATE('26-July-02', '%d-%M-%y'), 'In Process');

SET FOREIGN\_KEY\_CHECKS = 0;

INSERT INTO `db\_lab\_1`.`sales\_order\_details`(`order\_no`,`product\_no`,`qty\_ordered`,`qty\_disp`,`product\_rate`)

VALUES

('O19001','P00001',4,4,525),

('O19001','P07965',2,1,8400),

('O19001','P07885',2,1,5250),

('O19002','P00001',10,0,525),

('O46865','P07868',3,3,3150),

('O46865','P07885',3,1,5250),

('O46865','P00001',10,10,525),

('O46865','P03453',4,4,1050),

('O19003','P03453',2,2,1050),

('O19003','P06734',1,1,12000),

('O46866','P07965',1,0,8400),

('O46866','P07975',1,0,1050),

('O19008','P00001',10,5,525),

('O19008','P07975',5,3,1050);

**Chapter 9:**

SELECT name FROM client\_master WHERE name like '\_a%';

SELECT client\_no, name,city FROM Client\_Master WHERE city LIKE 'M%';

SELECT client\_no, name,city FROM Client\_Master WHERE city IN('Bangalore', 'Mangalore');

SELECT client\_no, Name FROM Client\_Master WHERE baldue > 10000;

SELECT \* FROM Sales\_Order WHERE MONTHNAME(order\_date) = 'June';

SELECT \* FROM Sales\_Order WHERE client\_no IN('C00001', 'C00002');

SELECT product\_no, description FROM product\_master WHERE sell\_price>500 and sell\_price<750;

SELECT product\_no, description, sell\_price, sell\_price \*.15 as new\_price FROM product\_master WHERE sell\_price>500;

SELECT name, city, state FROM Client\_Master WHERE state NOT IN('Maharashtra');

SELECT COUNT(order\_no) as total\_orders FROM sales\_order;

SELECT AVG(sell\_price) as average\_sell\_price FROM product\_master;

SELECT MAX(sell\_price) as max\_price, MIN(sell\_price) as min\_price FROM product\_master;

SELECT COUNT(product\_no) FROM product\_master WHERE sell\_price<=500 ;

SELECT product\_no, description FROM product\_master WHERE qty\_on\_head<re\_order\_lvl;

SELECT order\_no, MONTHNAME(order\_date) as order\_day FROM sales\_order;

SELECT MONTHNAME(dely\_date) as month\_name, dely\_date FROM sales\_order ORDER BY month\_name;

SELECT DATE\_FORMAT(order\_date ,'%d-%M-%y') as order\_date FROM sales\_order;

SELECT CURDATE() as Today , DATE\_ADD(CURDATE(), INTERVAL 15 DAY) AS After\_15\_Days;

**Chapter 10:**

select description,count(qty\_ordered) as total\_qty\_sold from sales\_order\_details as sod ,product\_master as pm where sod.product\_no=pm.product\_no group by description;

select description , sum(sod.qty\_disp\*sod.product\_rate) as sales\_per\_product from sales\_order\_details as sod ,product\_master as pm where sod.product\_no=pm.product\_no group by sod.product\_no, pm.description;

select cm.client\_no,cm.name,avg(sod.qty\_disp) as avg\_sales from sales\_order\_details as sod , sales\_order as so , client\_master as cm where cm.client\_no=so.client\_no and so.order\_no = sod.order\_no

group by cm.client\_no,name having max(sod.qty\_ordered\*sod.product\_rate)>15000;

select so.order\_no,so.order\_date,sum(sod.qty\_ordered\*sod.product\_rate) as order\_billed  from sales\_order as so ,sales\_order\_details as sod where sod.order\_no = so.order\_no and so.bill\_status='Y'

and MONTHNAME(order\_date) = 'June' group by so.order\_no;

select sod.product\_no,pm.description from product\_master as pm join sales\_order\_details as sod on  pm.product\_no = sod.product\_no join sales\_order as so on so.order\_no=sod.order\_no join client\_master as cm on

cm.client\_no = so.client\_no and cm.name='Ivan Bayross';

select sod.product\_no,pm.description,sum(sod.qty\_ordered) as total\_qty from product\_master as pm join sales\_order\_details as sod on pm.product\_no=sod.product\_no join sales\_order as so on so.order\_no = sod.order\_no

where MONTHNAME(so.dely\_date)= MONTHNAME(CURDATE()) group by sod.product\_no,pm.description;

select distinct pm.product\_no,pm.description from sales\_order\_details as sod join product\_master as pm on pm.product\_no=sod.product\_no;

select distinct so.client\_no,cm.name from product\_master as pm join sales\_order\_details as sod on pm.product\_no=sod.product\_no join sales\_order as so on  so.order\_no = sod.order\_no join

client\_master as cm on cm.client\_no = so.client\_no where pm.description="Trousers";

select sod.product\_no,sod.order\_no from product\_master as pm join sales\_order\_details as sod on pm.product\_no=sod.product\_no join sales\_order as so on  so.order\_no = sod.order\_no

where sod.qty\_ordered<5 and pm.description="Pull Overs";

select sod.product\_no,pm.description,sum(sod.qty\_ordered) as units\_ordered from product\_master as pm join sales\_order\_details as sod on pm.product\_no=sod.product\_no join sales\_order as so on  so.order\_no = sod.order\_no

join client\_master as cm on cm.client\_no = so.client\_no where (cm.name="Ivan Bayross" or cm.name="Mamta Muzumdar") group by sod.product\_no , pm.description;

select so.client\_no,sod.product\_no,pm.description,sum(sod.qty\_ordered) as units\_ordered from product\_master as pm join sales\_order\_details as sod on pm.product\_no=sod.product\_no join sales\_order as so on  so.order\_no = sod.order\_no

join client\_master as cm on cm.client\_no = so.client\_no group by so.client\_no,sod.product\_no , pm.description having so.client\_no='C00001' or so.client\_no='C00002';

select product\_no,description from product\_master where product\_no Not In(select product\_no from sales\_order\_details);

select name,address1,address2,city,state,pincode from client\_master where client\_no In(select client\_no from sales\_order where order\_no='O19001');

select client\_no,name from client\_master where client\_no In(select client\_no from sales\_order where DATE\_FORMAT(order\_date ,'%M-%y')<'May-02');

select client\_no,name from client\_master where client\_no In(select client\_no from sales\_order where order\_no In(select order\_no from sales\_order\_details where product\_no

 In(select product\_no from product\_master where description ='Lycra Tops')));

 select name from client\_master where client\_no In(select client\_no from sales\_order where order\_no In(select order\_no from sales\_order\_details where (qty\_ordered\*product\_rate)>=10000));

**Chapter 11:**

create index idx\_pod on product\_master(cost\_price);

CREATE TABLE inv\_seq (

   id INT NOT NULL AUTO\_INCREMENT,

    PRIMARY KEY (id)

);

INSERT INTO inv\_seq (id)

 SELECT

        CASE

            WHEN (SELECT MAX(id) FROM inv\_seq) >= 9999 THEN 1

            ELSE (MAX(id) + 3)

        END

    FROM inv\_seq;

create view vv\_sal\_order  as select so.order\_no,so.order\_date,sod.product\_no,sod.product\_rate,sod.qty\_ordered,so.order\_status from sales\_order\_details as sod , sales\_order as so where so.order\_no=sod.order\_no;