CREATE TABLE client\_master(

client\_no VARCHAR(6),

name varchar(20) NOT NULL,

address1 varchar(30),

address2 varchar(30),

city varchar(15),

state varchar(15),

pincode number(6),

bal\_due number(10,2),

constraint client\_no\_pk PRIMARY KEY(client\_no),

constraint client\_no\_ck Check(client\_no LIKE 'C%')

);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00001', 'Ivan Bayross', 'Bombay', 'Maharashtra', 400054,15000);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00002', 'Vandana Saitwal', 'Madras', 'Tamil Nadu', 780001, 0);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00003', 'Pramada Jaguste', 'Bombay', 'Maharashtra', 400057, 5000);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00004', 'Basu Navindgi', 'Bombay', 'Maharashtra', 400056, 0);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00005', 'Ravi Sreedharan', 'Delhi', 'Delhi', 100001, 2000);

insert into client\_master(client\_no, name, city, state, pincode, bal\_due) values

('C00006', 'Rukmini', 'Bombay', 'Maharashtra', 400050, 0);

select \* from client\_master;

----- TABLE 2-----

create table product\_master(

product\_no varchar(6),

description varchar(50) not null,

profit\_percent number(3,2) not null,

unit\_measure varchar(10) not null,

qty\_on\_hand number(5),

record\_lvl number(8) not null,

sell\_price number(8,2) not null,

cost\_price number(8,2) not null,

constraint product\_no\_pk primary key(product\_no),

constraint product\_no\_ck check (product\_no like 'P%'),

constraint sell\_price\_ck check (sell\_price>0),

constraint cost\_price\_ck check (cost\_price>0)

);

insert into product\_master values ('P00001','1.44 Floppies',5,'Piece',100,20,525,500);

insert into product\_master values ('P03453','Monitors',6,'Piece',10,3,12000,11280);

insert into product\_master values ('P06734','Mouse',5,'Piece',20,5,1050,1000);

insert into product\_master values ('P07865','1.22 Floppies',5,'Piece',100,20,525,500);

insert into product\_master values ('P07868','Keyboards',2,'Piece',10,3,3150,3050);

insert into product\_master values ('P07885','CD Drive',2.5,'Piece',10,3,5250,5100);

insert into product\_master values ('P07965','540 HDD',4,'Piece',10,3,8400,8000);

insert into product\_master values ('P07975','1.44 Drive',5,'Piece',10,3,1050,1000);

insert into product\_master values ('P08865','1.22 Drive',5,'Piece',2,3,1050,1000);

---------- TABLE 3-----------------------

create table salesman\_master(

salesman\_no varchar(6),

salesman\_name varchar(20) not null,

address1 varchar(30) not null,

address2 varchar(30),

city varchar(20),

pincode varchar(6),

state varchar(20),

sal\_amt number(8,2) not null,

tgt\_to\_get number(6,2) not null,

ytd\_sales number(6,2) not null,

remarks varchar(60),

constraint salesman\_no\_pk primary key (salesman\_no),

constraint salesman\_no\_ck check (salesman\_no like 'S%'),

constraint not\_zero\_ck check (sal\_amt != 0 and tgt\_to\_get !=0)

);

insert into salesman\_master values('S00001','Kiran','A/14','Worli','Bombay','400002','MAH',3000,100,50,'Good');

insert into salesman\_master values('S00002','Manish','65','Nariman','Bombay','400001','MAH',3000,200,100,'Good');

insert into salesman\_master values('S00003','Ravi','P-7','Bandra','Bombay','400032','MAH',3000,200,100,'Good');

insert into salesman\_master values('S00004','Ashish','A/5','Juhu','Bombay','400044','MAH',3500,200,150,'Good');

----------------------- TABLE 4----------------------------

create table sales\_order(

s\_order\_no varchar(6),

s\_order\_date date,

client\_no varchar(6),

dely\_addr varchar(25) null,

salesman\_no varchar(6),

dely\_type char(1) default 'F',

billed\_yn char(1) default 'N',

dely\_date date,

order\_status varchar(10),

constraint s\_order\_no\_pk primary key(s\_order\_no),

constraint s\_order\_no\_ck check(s\_order\_no like 'O%'),

constraint client\_no\_fk foreign key(client\_no) references client\_master(client\_no),

constraint salesman\_no\_fk foreign key(salesman\_no) references salesman\_master(salesman\_no),

constraint dely\_type\_ck check (dely\_type like 'P' or dely\_type like 'F'),

constraint billed\_type\_ck check (billed\_yn like 'Y' or billed\_yn like 'N'),

constraint dely\_date\_ck check (dely\_date >= s\_order\_date),

constraint order\_status\_ck check (order\_status like 'in process' or order\_status like 'Fulfilled' or order\_status like 'BackOrder' or order\_status like 'Cancelled' )

);

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values ('O19001','12-Jan 1996','C00001','F','N','S00001','20-Jan 1996','in process')

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values('O19002','25-Jan 1996' ,'C00002' ,'P' ,'N', 'S00002', '27-Jan 1996', 'Cancelled');

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values('O46865', '18-Feb 1996' ,'C00003', 'F', 'Y', 'S00003', '20-Feb 1996', 'Fulfilled');

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values('O19003', '03-Apr 1996', 'C00001', 'F', 'Y', 'S00001', '07-Apr 1996' ,'Fulfilled');

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values('O46866', '20-May 1996' ,'C00004', 'P', 'N', 'S00002', '22-May 1996' ,'Cancelled');

insert into sales\_order (s\_order\_no,s\_order\_date,client\_no,dely\_type,billed\_yn,salesman\_no,dely\_date,order\_status)

values('O10008', '24-May 1996' ,'C00005', 'F', 'N', 'S00004', '26-May 1996' ,'in process');

------------------------------ TABLE 5-------------------------------------------

create table sales\_order\_details(

s\_order\_no varchar(6),

product\_no varchar(6),

qty\_ordered number(8),

qty\_disp number(8),

product\_rate number(10,2),

constraint s\_order\_no\_fk foreign key(s\_order\_no) references sales\_order(s\_order\_no),

constraint product\_no\_fk foreign key(product\_no) references product\_master(product\_no)

);

insert into sales\_order\_details values('O19001','P00001',4,4,525);

insert into sales\_order\_details values('O19001','P07965',2,1,8400);

insert into sales\_order\_details values('O19001','P07885',2,1,5250);

insert into sales\_order\_details values('O19002','P00001',10,0,525);

insert into sales\_order\_details values('O46865','P07868',3,3,3150);

insert into sales\_order\_details values('O46865','P07885',3,1,5250);

insert into sales\_order\_details values('O46865','P00001',10,10,525);

insert into sales\_order\_details values('O46865','P03453',4,4,1050);

insert into sales\_order\_details values('O19003','P03453',2,2,1050);

insert into sales\_order\_details values('O19003','P06734',1,1,12000);

insert into sales\_order\_details values('O46866','P07965',1,0,8400);

insert into sales\_order\_details values('O46866','P07975',1,0,1050);

insert into sales\_order\_details values('O10008','P00001',10,5,525);

insert into sales\_order\_details values('O10008','P07975',5,3,1050);

------------------------TABLE 6-------------------------

create table Challan\_Header(

challan\_no varchar(6),

s\_order\_no varchar(6),

challan\_date date not null,

billed\_yn char(1) DEFAULT 'N',

constraint challan\_no\_pk primary key(challan\_no),

constraint challan\_no\_ck CHECK (challan\_no like 'CH%'),

constraint sa\_order\_no\_fk foreign key(s\_order\_no) references sales\_order(s\_order\_no),

constraint billed\_yn\_ck CHECK (billed\_yn = 'Y' or billed\_yn = 'N')

);

insert into Challan\_Header values('CH9001', 'O19001', to\_date('12-12-1995','dd-mm-yyyy'), 'Y');

insert into Challan\_Header values('CH6865', 'O46865', to\_date('12-11-1995','dd-mm-yyyy'), 'Y');

insert into Challan\_Header values('CH3965', 'O10008', to\_date('12-10-1995','dd-mm-yyyy'), 'Y');

-------------------- TABLE 7 --------------------------------

create table Challan\_details(

challan\_no varchar(6),

product\_no varchar(6),

qty\_disp number(4,2) not null,

constraint challan\_no\_fnk foreign key(challan\_no) references challan\_header(challan\_no),

constraint product\_no\_fnk foreign key(product\_no) references product\_master(product\_no)

);

alter table Challan\_details add primary key(challan\_no,product\_no);

insert into Challan\_details values('CH9001','P00001',4);

insert into Challan\_details values('CH9001','P07965',1);

insert into Challan\_details values('CH9001','P07885',1);

insert into Challan\_details values('CH6865','P07868',3);

insert into Challan\_details values('CH6865','P03453',4);

insert into Challan\_details values('CH6865','P00001',10);

insert into Challan\_details values('CH3965','P00001',5);

insert into Challan\_details values('CH3965','P07975',2);