CREATE TABLE CLIENT\_MASTER(

CLIENT\_NO VARCHAR2(6),

NAME VARCHAR2(20) NOT NULL,

ADDRESS1 VARCHAR2(30),

ADDRESS2 VARCHAR2(30),

CITY VARCHAR2(15),

STATE VARCHAR2(15),

PINCODE NUMBER(6),

BAL\_DUE NUMBER(10,2),

CONSTRAINT CNO\_PK PRIMARY KEY(CLIENT\_NO),

CONSTRAINT CN\_CK CHECK (CLIENT\_NO LIKE 'C%')

);

DESC CLIENT\_MASTER;

CREATE TABLE PRODUCT\_MASTER(

PRODUCT\_NO VARCHAR2(6),

DESCRIPTION VARCHAR2(50) NOT NULL,

PROFIT\_PERCENT NUMBER(3,2) NOT NULL,

UNIT\_MEASURE VARCHAR2(10) NOT NULL,

RECORD\_LVL NUMBER(8) NOT NULL,

SELL\_PRICE NUMBER(8,2) NOT NULL,

COST\_PRICE NUMBER(8,2) NOT NULL,

CONSTRAINT PNO\_PK PRIMARY KEY(PRODUCT\_NO),

CONSTRAINT P\_CK CHECK (PRODUCT\_NO LIKE 'P%'),

CONSTRAINT SP\_CK CHECK (SELL\_PRICE >0),

CONSTRAINT CP\_CK CHECK (COST\_PRICE >0)

);

DESC PRODUCT\_MASTER;

CREATE TABLE SALESMAN\_MASTER(

SALESMAN\_NO VARCHAR2(6),

SALESMAN\_NAME VARCHAR2(20) NOT NULL,

ADDRESS1 VARCHAR2(30) NOT NULL,

ADDRESS2 VARCHAR2(30),

CITY VARCHAR2(20),

PINCODE VARCHAR2(6),

STATE VARCHAR2(20),

SAL\_AMT NUMBER(8,2) NOT NULL,

TGT\_TO\_GET NUMBER(6,2) NOT NULL,

YTD\_SALES NUMBER(6,2) NOT NULL,

REMARKS VARCHAR2(60),

CONSTRAINT SNO\_PK PRIMARY KEY(SALESMAN\_NO),

CONSTRAINT SN\_CK CHECK(SALESMAN\_NO LIKE 'S%'),

CONSTRAINT TTG\_CK CHECK(TGT\_TO\_GET >0),

CONSTRAINT YTD\_CK CHECK(YTD\_SALES >0)

);

CREATE TABLE SALES\_ORDER(

S\_ORDER\_NO VARCHAR2(6),

S\_ORDER\_DATE DATE,

CLIENT\_NO VARCHAR2(6),

DELY\_ADDR VARCHAR2(25),

SALESMAN\_NO VARCHAR2(6),

DELY\_TYPE CHAR(1) DEFAULT 'F',

BILLED\_YN CHAR(1) DEFAULT 'N',

DELY\_DATE DATE ,

ORDER\_STATUS VARCHAR2(10),

CONSTRAINT SO\_PK PRIMARY KEY(S\_ORDER\_NO),

CONSTRAINT S\_CK CHECK(S\_ORDER\_NO LIKE 'O%'),

CONSTRAINT CNO\_FK FOREIGN KEY(CLIENT\_NO) REFERENCES CLIENT\_MASTER(CLIENT\_NO),

CONSTRAINT SNO\_FK FOREIGN KEY(SALESMAN\_NO) REFERENCES SALESMAN\_MASTER(SALESMAN\_NO),

CONSTRAINT DT\_CK CHECK (DELY\_TYPE IN ('P','F')),

CONSTRAINT BL\_CK CHECK (BILLED\_YN IN ('Y','N')),

CONSTRAINT DE\_CK CHECK (DELY\_DATE>= S\_ORDER\_DATE),

CONSTRAINT OS\_CK CHECK (ORDER\_STATUS IN('IN\_PROCESS','FULFILLED','BACK\_ORDER','CANCELED'))

);

CREATE TABLE SALES\_ORDER\_DETAILS (

S\_ORDER\_NO VARCHAR2(6),

PRODUCT\_NO VARCHAR2(6),

QTY\_ORDERED NUMBER(8),

QTY\_DISP NUMBER(8),

PRODUCT\_RATE NUMBER(10,2),

CONSTRAINT SON\_FK FOREIGN KEY(S\_ORDER\_NO) REFERENCES SALES\_ORDER(S\_ORDER\_NO),

CONSTRAINT PN\_FK FOREIGN KEY(PRODUCT\_NO) REFERENCES PRODUCT\_MASTER(PRODUCT\_NO)

);

CREATE TABLE CHALLAN\_HEADER (

CHALLAN\_NO VARCHAR2(6),

S\_ORDER\_NO VARCHAR2(6),

CHALLAN\_DATE DATE NOT NULL,

BILLED\_YN CHAR(1) DEFAULT'N',

CONSTRAINT CN\_PK PRIMARY KEY(CHALLAN\_NO),

CONSTRAINT SO\_FK FOREIGN KEY(S\_ORDER\_NO) REFERENCES SALES\_ORDER(S\_ORDER\_NO),

CONSTRAINT CN\_CH CHECK (CHALLAN\_NO LIKE 'CH%'),

CONSTRAINT BY\_CH CHECK (BILLED\_YN IN ('Y','N'))

);

CREATE TABLE CHALLAN\_DETAILS(

CHALLAN\_NO VARCHAR2(6),

PRODUCT\_NO VARCHAR2(6),

QTY\_DISP NUMBER(4,2) NOT NULL,

CONSTRAINT CPPK PRIMARY KEY(CHALLAN\_NO,PRODUCT\_NO),

CONSTRAINT CNFK FOREIGN KEY(CHALLAN\_NO) REFERENCES CHALLAN\_HEADER(CHALLAN\_NO),

CONSTRAINT PNFK FOREIGN KEY(PRODUCT\_NO) REFERENCES PRODUCT\_MASTER(PRODUCT\_NO)

);

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;

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P00001','1.44 Floppies',5,'Piece',20,525,500);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P03453','Monitors',6,'Piece',3,12000,11280);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P06734','Mouse',5,'Piece',5,1050,1000);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P07865','1.22 Floppies',5,'Piece',20,525,500);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P07868','keyboards',2,'Piece',3,3150,3050);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P07885','CD Drive',2.5,'Piece',3,5250,5100);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P07965','540 HDD',4,'Piece',3,8400,8000);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P07975','1.44 Drive',5,'Piece',3,1050,1000);

INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERCENT,UNIT\_MEASURE,RECORD\_LVL,SELL\_PRICE,COST\_PRICE)

VALUES('P08865','1.22 Drive',5,'Piece',3,1050,1000);

SELECT\*FROM PRODUCT\_MASTER;

INSERT INTO SALESMAN\_MASTER(SALESMAN\_NO,SALESMAN\_NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,SAL\_AMT,TGT\_TO\_GET,YTD\_SALES)

VALUES('S00001','KIRAN','A/14','WORLI','BOMBAY','400002','MAH',3000,100,50);

INSERT INTO SALESMAN\_MASTER(SALESMAN\_NO,SALESMAN\_NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,SAL\_AMT,TGT\_TO\_GET,YTD\_SALES)

VALUES('S00002','MANISH','65','NARIMAN','BOMBAY','400001','MAH',3000,200,100);

INSERT INTO SALESMAN\_MASTER(SALESMAN\_NO,SALESMAN\_NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,SAL\_AMT,TGT\_TO\_GET,YTD\_SALES)

VALUES('S00003','RAVI','P-7','BANDRA','BOMBAY','400032','MAH',3000,200,100);

INSERT INTO SALESMAN\_MASTER(SALESMAN\_NO,SALESMAN\_NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,SAL\_AMT,TGT\_TO\_GET,YTD\_SALES)

VALUES('S00004','ASHISH','A/5','JUHU','BOMBAY','40044','MAH',3500,200,150);

SELECT\*FROM SALESMAN\_MASTER;

INSERT INTO SALES\_ORDER(S\_ORDER\_NO,S\_ORDER\_DATE,CLIENT\_NO,SALESMAN\_NO,DELY\_TYPE,BILLED\_YN,DELY\_DATE,ORDER\_STATUS)

VALUES('O19001','12-JAN-1996','C00001','S00001','F','N','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','CANCELED');

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','CANCELED');

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');

SELECT\*FROM SALES\_ORDER;

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('O19003','P00001',10,4,525);

insert into sales\_order\_details values('O19003','P07975',5,3,1050);

SELECT\* FROM SALES\_ORDER\_DETAILS;

insert into challan\_header values('CH9001','O19001','12-Dec-1995','Y');

insert into challan\_header values('CH6865','O46865','12-Nov-1995','Y');

insert into challan\_header values('CH3965','O10008','12-Oct-1995','Y');

SELECT\*FROM CHALLAN\_HEADER;

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);

SELECT\*FROM CHALLAN\_DETAILS;