**A1**

1.

CREATE TABLE client\_master

(

Client\_no varchar2(6) Primary key check(Client\_no like 'C%'),

Name varchar2(30) not null,

Address1 varchar2(30),

Address2 varchar2(30),

City varchar2(15),

State varchar2(15),

Pincode number(6),

Balance\_due number(10,2)

);

INSERT INTO client\_master Values('C001','Ivan Bayross','P-76','Worli','Bombay','Maharastra',400054,15000);

INSERT INTO client\_master Values('C002','Vandana Satiwal','128','AdamsStreet','Madras','Tamilnadu',780001,0);

INSERT INTO client\_master Values('C003','Praamada Jaguste','157','Gopalpur','Kolkata','West Bengal',700058,5000);

INSERT INTO client\_master Values('C004','Basu Navindgi','A/12','Nariman','Bombay','Maharastra',400056,0);

INSERT INTO client\_master Values('C005','Ravi Sreedharan','B/34','Rajnagar','Delhi','Delhi',100001,2000);

INSERT INTO client\_master Values('C006','Rukmini','Q-12','Bandra','Bombay','Maharastra',400050,0);

SELECT \* FROM client\_master;

2.

CREATE TABLE product\_master

(

Product\_no varchar2(6) Primary key Check(Product\_no LIKE 'P%'),

Description Varchar2(40) not null,

Profit\_percent Number(4,2) not null,

Unit\_measure Varchar2(10) not null,

Qty\_on\_hand Number(8) not null,

Reorder\_level Number(8) not null,

Sell\_price Number(8,2) not null Check(Sell\_price>0),

Cost\_price Number(8,2) not null 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','Keyboard',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', 10,20,8400,8000);

insert into product\_master values('P07975','1.44 Drive', 5, 'Piece', 10,3,1050,900);

insert into product\_master values('P08865','1.22 Drive', 5, 'Piece', 2,3,1025,850);

3.

CREATE TABLE salesman\_master

(

Salesman\_no varchar2(6) Primary key check(Salesman\_no LIKE 'S%'),

Salesman\_name Varchar2(30) NOT NULL,

Address1 Varchar2(30) NOT NULL,

Address2 varchar2(30),

City varchar2(20),

Pincode Number(8),

State Varchar2(20),

Sal\_amt Number(8,2) NOT NULL check(Sal\_amt > 0)

);

insert into salesman\_master values('S001','Kiran','A/14','Worli','Bombay',400002,'Maharastra',3000);

insert into salesman\_master values('S002','Manish','65','Nariman','Bombay',400001,'Maharastra',3000);

insert into salesman\_master values('S003','Ravi','P-7','Bandra','Bombay',400032,'Maharastra',3000);

insert into salesman\_master values('S004','Asish','A/5','Juhu','Bombay',400044,'Maharastra',3000);

4.

CREATE TABLE Sales\_order (

Order\_no VARCHAR2(6) PRIMARY KEY CHECK (Order\_no LIKE 'O%'),

Order\_date DATE,

Client\_no VARCHAR2(6) REFERENCES Client\_master(Client\_no),

Salesman\_no VARCHAR2(6) REFERENCES Salesman\_master(Salesman\_no),

Delivery\_type CHAR(1) DEFAULT 'F' CHECK (Delivery\_type IN ('P', 'F')),

Bill\_y\_n CHAR(1) CHECK (Bill\_y\_n IN ('Y', 'N')),

Delivery\_date DATE,

Order\_status VARCHAR2(10) CHECK (Order\_status IN ('InProcess', 'Fulfilled', 'BackOrder', 'Cancelled'))

//

ALTER TABLE SALES\_ORDER

ADD CONSTRAINT chk\_delivery\_date CHECK (Delivery\_date >= Order\_date)

);

insert into Sales\_order values('O19007','12-Jan-96','C001','S001','F','N','20-Jan-96','InProcess');

insert into Sales\_order values('O19008','25-Jan-96','C002','S002','P','N','27-Jan-96','Backorder');

insert into Sales\_order values('O46865','18-Feb-96','C003','S003','F','Y','20-Feb-96','Fullfilled');

insert into Sales\_order values('O19009','03-Apr-96','C001','S001','F','Y','07-Apr-96','Fullfilled');

insert into Sales\_order values('O46866','20-May-96','C004','S002','P','N','22-May-96','Cancelled');

insert into Sales\_order values('O19010','24-May-96','C005','S004','F','N','26-May-96','InProcess');

OR

INSERT ALL

INTO Sales\_order VALUES ('O19001', TO\_DATE('12-Jan-96', 'DD-Mon-YY'), 'C001', 'S001', 'F', 'N', TO\_DATE('20-Jan-96', 'DD-Mon-YY'), 'InProcess')

INTO Sales\_order VALUES ('O19002', TO\_DATE('25-Jan-96', 'DD-Mon-YY'), 'C002', 'S002', 'P', 'N', TO\_DATE('27-Jan-96', 'DD-Mon-YY'), 'BackOrder')

INTO Sales\_order VALUES ('O46865', TO\_DATE('18-Feb-96', 'DD-Mon-YY'), 'C003', 'S003', 'F', 'Y', TO\_DATE('20-Feb-96', 'DD-Mon-YY'), 'Fulfilled')

INTO Sales\_order VALUES ('O19003', TO\_DATE('03-Apr-96', 'DD-Mon-YY'), 'C001', 'S001', 'F', 'Y', TO\_DATE('07-Apr-96', 'DD-Mon-YY'), 'Fulfilled')

INTO Sales\_order VALUES ('O46866', TO\_DATE('20-May-96', 'DD-Mon-YY'), 'C004', 'S002', 'P', 'N', TO\_DATE('22-May-96', 'DD-Mon-YY'), 'Cancelled')

INTO Sales\_order VALUES ('O19008', TO\_DATE('24-May-96', 'DD-Mon-YY'), 'C005', 'S004', 'F', 'N', TO\_DATE('26-May-96', 'DD-Mon-YY'), 'InProcess')

SELECT \* FROM dual;

5.

CREATE TABLE Sales\_order\_details (

Order\_no VARCHAR2(6) REFERENCES Sales\_order(Order\_no),

Product\_no VARCHAR2(6) REFERENCES Product\_master(Product\_no),

Qty\_ordered NUMBER(8),

Qty\_disp NUMBER(8),

Product\_rate NUMBER(10, 2)

);

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',3,1,52500);

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

INSERT INTO Sales\_order\_details VALUES('O19008','P07975',5,3,1050);