

**KIET GROUP OF INSTITUTIONS**  
**DEPARTMENT OF COMPUTER APPLICATIONS**

**LAB ASSIGNMENT 6**

**DBMS Lab (KCA – 252)**

**PRASSAN VARSHNEY**

**ROLL\_NUMBER - 36**

**Create the following tables & insert the records as given.**

**i) CLIENT\_MASTER (Used for storing client information)**

Column Name	Data Type	Size	Attribute
Client_No	Varchar2	6	Primary Key / Must Start with 'C'
Name	Varchar2	20	Not Null
CITY	Varchar2	20	Must be either from Delhi or Mumbai or Chennai only.
Pincode	Number	6	
State	Varchar2	20	
BALDUE	Number	10,2	
Email	Varchar2	30	Always take unique value

**CREATE TABLE Clients (**

**Client\_No VARCHAR2(6) CONSTRAINT pk\_client\_no PRIMARY KEY CHECK (Client\_No LIKE 'C%'),**

**Name VARCHAR2(20) NOT NULL,**

**City VARCHAR2(20) CHECK (City IN ('Delhi', 'Mumbai', 'Chennai')),**

**Pincode NUMBER(6),**

**State VARCHAR2(20),**

**BALDUE NUMBER(10, 2),**

**Email VARCHAR2(30) UNIQUE**

**);**

**ii) PRODUCT\_MASTER (Used for storing Product Information)**

Column Name	Data Type	Size	Attribute
Product_No	Varchar2	6	Primary Key / Must Start with 'P'
Name	Varchar2	20	Not Null
UnitMeasure	Varchar2	10	Not Null
QtyOnHand	Number	8	Not Null, cannot less than ReorderLevel
ReorderLevel	Number	8	Not Null
SellPrice	Number	8,2	Not Null, cannot be 0 or -ve
CostPrice	Number	8,2	Not Null, cannot be 0 or -ve

**CREATE TABLE Products (**

**Product\_No VARCHAR2(6) CONSTRAINT pk\_product\_no PRIMARY KEY CHECK (Product\_No LIKE 'P%'),**  
**Name VARCHAR2(20) NOT NULL,**  
**UnitMeasure VARCHAR2(10) NOT NULL,**  
**QtyOnHand NUMBER(8) NOT NULL CHECK (QtyOnHand >= ReorderLevel),**  
**ReorderLevel NUMBER(8) NOT NULL,**  
**SellPrice NUMBER(8, 2) NOT NULL CHECK (SellPrice > 0),**  
**CostPrice NUMBER(8, 2) NOT NULL CHECK (CostPrice > 0)**  
**);**

**iii) SALESMAN\_MASTER (Used for storing salesman information)**

Column Name	Data Type	Size	Attribute
Salesman_No	Varchar	6	Primary Key/First Letter must start with 'S'
Sal_name	Varchar	20	Not Null
Address	Varchar	40	Not Null
City	Varchar	20	
State	Varchar	20	
Pincode	Number	6	
Sal_Amount	Number	8,2	Not Null, Cannot be 0 or -ve
Tgt_to_get	Number	8,2	Not Null, Cannot be 0 or -ve
Ytd_Sales	Number	8,2	Not Null, Cannot be 0 or -ve
Remarks	Varchar	30	

**CREATE TABLE Products (**

**Product\_No VARCHAR2(6) CONSTRAINT pk\_product\_no PRIMARY KEY CHECK (Product\_No LIKE 'P%'),**  
**Name VARCHAR2(20) NOT NULL,**  
**UnitMeasure VARCHAR2(10) NOT NULL,**  
**QtyOnHand NUMBER(8) NOT NULL CHECK (QtyOnHand >= ReorderLevel),**  
**ReorderLevel NUMBER(8) NOT NULL,**  
**SellPrice NUMBER(8, 2) NOT NULL CHECK (SellPrice > 0),**  
**CostPrice NUMBER(8, 2) NOT NULL CHECK (CostPrice > 0)**  
**);**

**iv) SALES\_ORDER (Used to store client's orders)**

Column Name	Data Type	Size	Attribute
Order_NO	Varchar2	6	Primary Key/ First letter must start with 'O'

Order_Date	Date		Not Null
Client_No	Varchar2	6	Foreign Key reference client no of Client_Master table
Dely_add	Varchar2	25	
Salesman_No	Varchar2	6	Foreign Key references Salesman_No of Salesman_Master table
Dely_type	Char	1	Delivery part(P)/full(F), default F
Billed_yn	Char	1	Values must be 'Y'/'N'
Dely_Date	Date		Can not be less than Order_Date
Order_Status	Varchar2	10	Values ('In Process(IP)'; 'Fulfilled(F)'; 'Canceled(C)'

```

CREATE TABLE Orders (
    Order_NO VARCHAR2(6) CONSTRAINT pk_order_no PRIMARY KEY
CHECK (Order_NO LIKE 'O%'),
    Order_Date DATE NOT NULL,
    Client_No VARCHAR2(6),
    Dely_add VARCHAR2(25),
    Salesman_No VARCHAR2(6),
    Dely_type CHAR(1) DEFAULT 'F' CHECK (Dely_type IN ('P', 'F')),
    Billed_yn CHAR(1) CHECK (Billed_yn IN ('Y', 'N')),
    Dely_Date DATE CHECK (Dely_Date >= Order_Date),
    Order_Status VARCHAR2(10) CHECK (Order_Status IN ('In Process(IP)',
'Fulfilled(F)', 'Canceled(C)')),
    CONSTRAINT fk_client FOREIGN KEY (Client_No) REFERENCES
Client_Master(Client_No),
    CONSTRAINT fk_salesman FOREIGN KEY (Salesman_No)
REFERENCES Salesman_Master(Salesman_No)
);

```

v) **SALES\_ORDER\_DETAILS**

Column Name	Data Type	Size	Attribute
Order_No	Varchar	6	Primary Key/Foreign Key references Order_No of Sales_Order
Product_No	Varchar2	6	Primary Key/Foreign Key references Product_No of Product_Master
Qty_Order	Number	8	
Qty_disp	Number	8	

**CREATE TABLE Order\_Details (**

**Order\_No VARCHAR2(6),**

**Product\_No VARCHAR2(6),**

**Qty\_Order NUMBER(8),**

**Qty\_disp NUMBER(8),**

**CONSTRAINT pk\_order\_details PRIMARY KEY (Order\_No, Product\_No),**

**CONSTRAINT fk\_order\_no FOREIGN KEY (Order\_No) REFERENCES  
Sales\_Order(Order\_No),**

**CONSTRAINT fk\_product\_no FOREIGN KEY (Product\_No) REFERENCES  
Product\_Master(Product\_No)**

**);**

**Data for CLIENT\_MASTER**

CLIENTNO	NAME	CITY	PINCODE	STATE	BALDUE	EMAIL
C00001	Pankaj Sharma	Delhi	400054	Delhi	15000	pk@gmail.com
C00002	Yogesh Sharma	Delhi	780001	Delhi	0	<a href="mailto:ys@gmail.com">ys@gmail.com</a>
C00003	Aditya Singh	Mumbai	400057	Maharashtra	5000	<a href="mailto:as@gmail.com">as@gmail.com</a>
C00004	Ashwini Joshi	Chennai	560001	Tamil Nādu	0	<a href="mailto:aj@gmail.com">aj@gmail.com</a>
C00005	Neha Sharma	Mumbai	400060	Maharashtra	2000	<a href="mailto:ns@gmail.com">ns@gmail.com</a>
C00006	Divya Gupta	Chennai	560050	Tamil Nādu	0	

-- Inserting data into Client\_Master table

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00001', 'Pankaj Sharma', 'Delhi', 400054, 'Delhi', 15000, 'pk@gmail.com');

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00002', 'Yogesh Sharma', 'Delhi', 780001, 'Delhi', 0, 'ys@gmail.com');

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00003', 'Aditya Singh', 'Mumbai', 400057, 'Maharashtra', 5000, 'as@gmail.com');

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00004', 'Ashwini Joshi', 'Chennai', 560001, 'Tamil Nadu', 0, 'aj@gmail.com');

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00005', 'Neha Sharma', 'Mumbai', 400060, 'Maharashtra', 2000, 'ns@gmail.com');

INSERT INTO Client\_Master (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE, EMAIL)

VALUES ('C00006', 'Divya Gupta', 'Chennai', 560050, 'Tamil Nadu', 0, NULL); -- Assuming EMAIL can be NULL

#### Data for PRODUCT\_MASTER

Product_No	Name	Unit Measure	Qty OnHand	Reorder Level	Sell Price	Cost Price
P00001	T-Shirt	Piece	200	50	350	250
P03453	Shirt	Piece	150	50	500	350
P06734	Cotton Jeans	Piece	100	20	600	450
P07865	Jeans	Piece	100	20	750	500
P07868	Trouser	Piece	150	50	850	550
P07885	Pull Over	Piece	80	30	700	450
P07965	Denim Shirts	Piece	100	40	350	250
P07975	Lycra Tops	Piece	70	30	300	175
P08865	Skirts	Piece	75	30	450	300

-- Inserting data into Product\_Master table

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P00001', 'T-Shirt', 'Piece', 200, 50, 350, 250);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P03453', 'Shirt', 'Piece', 150, 50, 500, 350);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P06734', 'Cotton Jeans', 'Piece', 100, 20, 600, 450);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P07865', 'Jeans', 'Piece', 100, 20, 750, 500);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P07868', 'Trouser', 'Piece', 150, 50, 850, 550);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P07885', 'Pull Over', 'Piece', 80, 30, 700, 450);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P07965', 'Denim Shirts', 'Piece', 100, 40, 350, 250);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand, ReorderLevel, SellPrice, CostPrice)
VALUES ('P07975', 'Lycra Tops', 'Piece', 70, 30, 300, 175);
```

```
INSERT INTO Product_Master (Product_No, Name, UnitMeasure, QtyOnHand,
ReorderLevel, SellPrice, CostPrice)
VALUES ('P08865', 'Skirts', 'Piece', 75, 30, 450, 300);
```

### Data For SALESMAN\_MASTER

Salesman_no	Name	Address	City	PIN	State	Salamt	Tgt_To_get	Ytd_Sale	Remark
S00001	Kiran	A/14 worli	Mumbai	400002	Mah	3000	100	50	Good
S00002	Manish	65,nariman	Mumbai	400001	Mah	3000	200	100	Good
S00003	Ravi	P-7 Bandra	Mumbai	400032	Mah	3000	200	100	Good
S00004	Ashish	A/5 Juhu Bombay	Mumbai	400044	Mah	3500	200	150	Good

-- Inserting data into Salesman\_Master table

```
INSERT INTO Salesman_Master (Salesman_no, Name, Address, City, PIN,
State, Salamt, Tgt_To_get, Ytd_Sale, Remark)
VALUES ('S00001', 'Kiran', 'A/14 worli', 'Mumbai', '400002', 'Mah', 3000, 100,
50, 'Good');
```

```
INSERT INTO Salesman_Master (Salesman_no, Name, Address, City, PIN,
State, Salamt, Tgt_To_get, Ytd_Sale, Remark)
VALUES ('S00002', 'Manish', '65, nariman', 'Mumbai', '400001', 'Mah', 3000,
200, 100, 'Good');
```

```
INSERT INTO Salesman_Master (Salesman_no, Name, Address, City, PIN,
State, Salamt, Tgt_To_get, Ytd_Sale, Remark)
VALUES ('S00003', 'Ravi', 'P-7 Bandra', 'Mumbai', '400032', 'Mah', 3000, 200,
100, 'Good');
```

```
INSERT INTO Salesman_Master (Salesman_no, Name, Address, City, PIN,
State, Salamt, Tgt_To_get, Ytd_Sale, Remark)
VALUES ('S00004', 'Ashish', 'A/5 Juhu Bombay', 'Mumbai', '400044', 'Mah',
3500, 200, 150, 'Good');
```

### Data for SALES\_ORDER table:

Orderno	S_Orderdate	ClientNo	Delytype	BillYN	Salesmanno	Delydate	OrderStatus
O19001	12-jan-21	0001	F	N	S00001	20-jan-21	IP
O19002	25-jan-21	0002	P	N	S00002	27-jan-21	C
O16865	18-feb-21	0003	F	Y	S00003	20-feb-21	F
O19003	03-apr-21	0001	F	Y	S00001	07-apr-21	F
O46866	20-may-21	0004	P	N	S00002	22-may-21	C
O10008	24-may-21	0005	F	N	S00004	26-may-21	IP

-- Inserting data into Sales\_Order table

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
```

```
VALUES ('O19001', TO_DATE('12-jan-21', 'dd-mon-yy'), '0001', 'F', 'N', 'S00001',
TO_DATE('20-jan-21', 'dd-mon-yy'), 'IP');
```

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
VALUES ('O19002', TO_DATE('25-jan-21', 'dd-mon-yy'), '0002', 'P', 'N', 'S00002',
TO_DATE('27-jan-21', 'dd-mon-yy'), 'C');
```

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
VALUES ('O16865', TO_DATE('18-feb-21', 'dd-mon-yy'), '0003', 'F', 'Y', 'S00003',
TO_DATE('20-feb-21', 'dd-mon-yy'), 'F');
```

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
VALUES ('O19003', TO_DATE('03-apr-21', 'dd-mon-yy'), '0001', 'F', 'Y', 'S00001',
TO_DATE('07-apr-21', 'dd-mon-yy'), 'F');
```

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
VALUES ('O46866', TO_DATE('20-may-21', 'dd-mon-yy'), '0004', 'P', 'N', 'S00002',
TO_DATE('22-may-21', 'dd-mon-yy'), 'C');
```

```
INSERT INTO Sales_Order (Orderno, S_Orderdate, ClientNo, Delytype, BillYN,
Salesmanno, Delydate, OrderStatus)
VALUES ('O10008', TO_DATE('24-may-21', 'dd-mon-yy'), '0005', 'F', 'N', 'S00004',
TO_DATE('26-may-21', 'dd-mon-yy'), 'IP');
```

**Data for SALES\_ORDER\_DETAILS table:**

S_order no	Productno	Qtyordered	Qtydisp
O19001	P00001	4	4
O19001	P07965	2	1
O19001	P07885	2	1
O19002	P00001	10	0
O46865	P07868	3	3
O46865	P07885	10	10
O19003	P00001	4	4
O19003	P03453	2	2
O46866	P06734	1	1
O46866	P07965	1	0
O10008	P07975	1	0
O10008	P00001	10	5

**-- Inserting data into Order\_Details table**

```
INSERT INTO Order_Details (Order_No, Product_No, Qty_Order, Qty_disp)
```

```
VALUES ('O19001', 'P00001', 4, 4);
```

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O19001', 'P07965', 2, 1);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O19001', 'P07885', 2, 1);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O19002', 'P00001', 10, 0);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O46865', 'P07868', 3, 3);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O46865', 'P07885', 10, 10);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O19003', 'P00001', 4, 4);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O19003', 'P03453', 2, 2);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O46866', 'P06734', 1, 1);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)  
VALUES ('O46866', 'P07965', 1, 0);**

**INSERT INTO Order\_Details (Order\_No, Product\_No, Qty\_Order, Qty\_disp)**



```
VALUES ('O10008', 'P07975', 1, 0);
```

```
INSERT INTO Order_Details (Order_No, Product_No, Qty_Order, Qty_disp)
```

```
VALUES ('O10008', 'P00001', 10, 5);
```