

Assignment – 1

Create the following tables using the schema and insert given data set accordingly.

SQL Query: -

Table name: client_master

```
create table client_master(
    client_no varchar2(6) primary key check (client_no like 'C%'),
    name varchar2(30),
    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', 'Maharashtra', 400054, 15000);

insert into client_master values ('C002', 'Vandana Satial', '128', 'Adams Street', 'Madras', 'Tamilnadu', 780001, 0);

insert into client_master values ('C003', 'Pramada Jaguste', '157', 'Gopalpur', 'Kolkata', 'West Bengal', 700058, 5000);

insert into client_master values ('C004', 'Basu Navindgi', 'A/12', 'Nariman', 'Bombay', 'Maharashtra', 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', 'Maharashtra', 400050, 0);
```

Output:

```
SQL> select * from client_master;
```

CLIENT	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BALANCE_DUE
C001	Ivan Bayross	P-76	Worli	Bombay	Maharashtra	400054	15000
C002	Vandana Satial	128	Adams Street	Madras	Tamilnadu	780001	0
C003	Pramada Jaguste	157	Gopalpur	Kolkata	West Bengal	700058	5000
C004	Basu Navindgi	A/12	Nariman	Bombay	Maharashtra	400056	0
C005	Ravi Sreedharan	B/34	Rajnagar	Delhi	Delhi	100001	2000
C006	Rukmini	Q-12	Bandra	Bombay	Maharashtra	400050	0

```
6 rows selected.
```

Table name: product_master

```
create table product_master (  
    product_no varchar2(6) primary key check (product_no like 'P%'),  
    description varchar2(20) not null,  
    profit_percent number (5,2) null,  
    unit_measure varchar2(8) not null,  
    qty_on_hand number(6) not null,  
    reoder_lvl number(6) not null,  
    sell_price number(10) not null,  
    cost_price number(10) not null,  
    constraint sell_cost check (sell_price>0 and 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, 500);  
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, 900);  
insert into product_master values ('P08865', '1.22 Drive', 5, 'Piece', 2, 3, 1025, 800);
```

Output:

```
SQL> select * from product_master;
```

PRODUC	DESCRIPTION	PROFIT_PERCENT	UNIT_MEA	QTY_ON_HAND	REORDER_LVL	SELL_PRICE	COST_PRICE
P00001	1.44 Floppies	5	Piece	100	20	525	500
P03453	Monitors	6	Piece	10	3	12000	11280
P06734	Mouse	5	Piece	20	5	1050	500
P07865	1.22 Floppies	5	Piece	100	20	525	500
P07868	Keyboards	2	Piece	10	3	3150	3050
P07885	CD Drive	2.5	Piece	10	3	5250	5100
P07965	540 HDD	4	Piece	10	3	8400	8000
P07975	1.44 Drive	5	Piece	10	3	1050	900
P08865	1.22 Drive	5	Piece	2	3	1025	800

```
9 rows selected.
```

Table name: salesman_master

```
create table salesman_master(
    salesman_no varchar2(6) primary key check (salesman_no like 's%'),
    salesman_name varchar2(20) 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, 'Maharashtra', 3000);
insert into salesman_master values ('S002', 'Manish', '65', 'Nariman', 'Bombay', 400001, 'Maharashtra', 3000);
insert into salesman_master values ('S003', 'Ravi', 'P-7', 'Bandra', 'Bombay', 400032, 'Maharashtra', 3000);
insert into salesman_master values ('S004', 'Ashish', 'A/5', 'Juhu', 'Bombay', 400044, 'Maharashtra', 3000);
```

Output:

```
SQL> select * from salesman_master;
```

SALESM	SALESMAN_NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SAL_AMT
S001	Kiran	A/14	Worli	Bombay	400002	Maharashtra	3000
S002	Manish	65	Nariman	Bombay	400001	Maharashtra	3000
S003	Ravi	P-7	Bandra	Bombay	400032	Maharashtra	3000
S004	Ashish	A/5	Juhu	Bombay	400044	Maharashtra	3000

Table name: sales_order

```
create table sales_order(
    order_no varchar2(6) primary key check (order_no like 'o%'),
    client_no varchar2(6) references client_master,
    order_date date,
    salesman_no varchar2(6) references salesman_master,
    delivery_type char(1) default 'f' check (delivery_type in('p','f')),
    bill_y_n char(1),
    delivery_date date,
    order_status varchar2(10),
    constraint ck_delivery_date check (delivery_date > order_date),
    constraint ck_order_status check (order_status in('in process','fulfilled','backorder','cancelled'))
);
```

```

insert into sales_order values ('O19001', 'C001', '12-Jan-96', 'S001', 'F', 'N', '20-Jan-96', 'In Process');
insert into sales_order values ('O19002', 'C002', '25-Jan-96', 'S002', 'P', 'N', '27-Jan-96', 'Backorder');
insert into sales_order values ('O46865', 'C003', '18-Feb-96', 'S003', 'F', 'Y', '20-Feb-96', 'Fulfilled');
insert into sales_order values ('O19003', 'C001', '03-Apr-96', 'S001', 'F', 'Y', '07-Apr-96', 'Fulfilled');
insert into sales_order values ('O46866', 'C004', '20-May-96', 'S002', 'P', 'N', '22-May-96', 'Cancelled');
insert into sales_order values ('O19008', 'C005', '24-May-96', 'S004', 'F', 'N', '26-May-96', 'In Process');

```

Output:

```

SQL> select * from sales_order;

ORDER_  CLIENT  ORDER_DAT  SALESM D B  DELIVERY_  ORDER_STAT
-----  -
019001  C001      12-JAN-96  S001  F N  20-JAN-96  In Process
019002  C002      25-JAN-96  S002  P N  27-JAN-96  Backorder
046865  C003      18-FEB-96  S003  F Y  20-FEB-96  Fulfilled
019003  C001      03-APR-96  S001  F Y  07-APR-96  Fulfilled
046866  C004      20-MAY-96  S002  P N  22-MAY-96  Cancelled
019008  C005      24-MAY-96  S004  F N  26-MAY-96  In Process

6 rows selected.

```

Table name: sales_order_details

```

create table sales_order_details(
    order_no varchar2(6) references sales_order,
    product_no varchar2(6) references product_master,
    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, 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 ('O19008', 'P00001', 10, 5, 525);
insert into sales_order_details values ('O19008', 'P07975', 5, 3, 1050);

```

Output:

```
SQL> select * from sales_order_details;
```

ORDER_	PRODUC	QTY_ORDERED	QTY_DISP	PRODUCT_RATE
019001	P00001	4	4	525
019001	P07965	2	1	8400
019001	P07885	2	1	5250
019002	P00001	10	0	525
046865	P07868	3	3	3150
046865	P07885	3	1	5250
046865	P00001	10	10	525
046865	P03453	4	4	1050
019003	P03453	2	2	1050
019003	P06734	1	1	12000
046866	P07965	1	0	8400
046866	P07975	1	0	1050
019008	P00001	10	5	525
019008	P07975	5	3	1050

14 rows selected.