

LAB 6

ORDER PROCESSING DATABASE

QUERY:

```
create table customer(  
  cust_no int,  
  cname varchar(20),  
  city varchar(20),  
  primary key(cust_no));
```

```
create table orders(  
  order_no int,  
  odate date,  
  cust_no int,  
  ord_amt int,  
  primary key(order_no),  
  foreign key(cust_no) references customer(cust_no));
```

```
create table item(  
  item_no int,  
  unit_price int,  
  primary key(item_no));
```

```
create table order_item(  
  order_no int,  
  item_no int ,  
  qty int,
```

```
foreign key(order_no) references orders(order_no),  
foreign key(item_no) references item(item_no) on delete set NULL);
```

```
create table warehouse(  
warehouse_no int,  
city varchar(20),  
primary key(warehouse_no));
```

```
create table shipment(  
order_no int,  
warehouse_no int,  
shit_date date,  
foreign key(order_no) references orders(order_no),  
foreign key(warehouse_no) references warehouse(warehouse_no));
```

```
insert into customer values('&cust_no', '&cname', '&city');  
select * from customer;
```

```
insert into orders values('&order_no', '&odate', '&cust_no', '&ord_amt');  
select * from orders;
```

```
insert into item values('&item_no', '&unit_price');  
select *from item;
```

```
insert into order_item values('&order_no', '&item_no', '&qty');  
select *from order_item;
```

```
insert into warehouse values('&warehouse_no', '&city');
```

```
select *from warehouse;
```

```
insert into shipment values('&order_no', '&warehouse_no', '&shit_date');
```

```
select * from shipment;
```

```
select C.cname, count(*) as NO_OF_ORDERS, avg(O.ord_amt) as
```

```
AVG_ORDER_AMT
```

```
from customer C, orders O
```

```
where (C.cust_no = O.cust_no) group by cname;
```

```
select * from orders where order_no in (
```

```
select order_no from shipment where warehouse_no in (
```

```
select warehouse_no from warehouse where city='bangalore'));
```

```
delete from item
```

```
where item_no = 10;
```

OUTPUT:

Customer:

	⇅ CUST_NO	⇅ CNAME	⇅ CITY
1	1	anish	bangalore
2	2	shilpa	bangalore
3	3	sameer	mumbai
4	4	akash	kolkata
5	5	devika	bangalore
6	6	suman	mumbai

Orders:

	⇅ ORDER_NO	⇅ ODATE	⇅ CUST_NO	⇅ ORD_AMT
1	100	20-03-20	1	5000
2	101	21-03-20	2	2000
3	102	20-03-20	1	3000
4	103	22-03-20	3	1200
5	104	22-03-20	4	2200
6	105	21-03-20	5	3500
7	106	20-03-20	6	1800

Items:

	ITEM_NO	UNIT_PRICE
1	10	100
2	11	150
3	12	90
4	13	120

Order_item:

	ORDER_NO	ITEM_NO	QTY
1	100	10	1
2	101	11	1
3	102	12	1
4	103	13	2
5	104	10	1
6	105	12	1
7	106	11	1

Warehouse:

	ORDER_NO	WAREHOUSE_NO	SHIT_DATE
1	100	1001	25-03-20
2	101	1003	28-03-20
3	102	1001	25-03-20
4	103	1002	30-03-20
5	104	1004	30-03-20
6	105	1001	26-03-20
7	106	1002	28-03-20

Shipment:

	WAREHOUSE_NO	CITY
1	1001	bangalore
2	1002	mumbai
3	1003	bangalore
4	1004	kolkata

QUERY:1

	CNAME	NO_OF_ORDERS	AVG_ORDER_AMT
1	anish	2	4000
2	shilpa	1	2000
3	sameer	1	1200
4	devika	1	3500
5	akash	1	2200
6	suman	1	1800

QUERY:2

	ORDER_NO	ODATE	CUST_NO	ORD_AMT
1	100	20-03-20	1	5000
2	101	21-03-20	2	2000
3	102	20-03-20	1	3000
4	105	21-03-20	5	3500

QUERY:3

	ORDER_NO	ITEM_NO	QTY
1	100	(null)	1
2	101	11	1
3	102	12	1
4	103	13	2
5	104	(null)	1
6	105	12	1
7	106	11	1