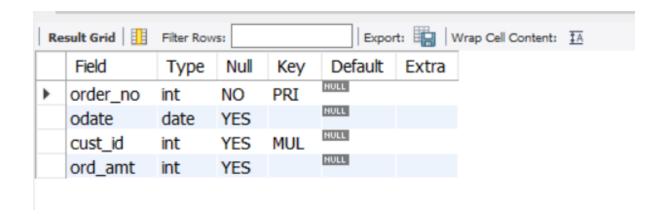
# LAB PROGRAM 6 ORDER PROCESSING

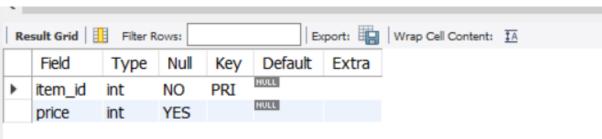
```
create database order_processing;
/* CUSTOMER Table */
create table customer(
  cust_id int,
  cnmae varchar(30),
  city varchar(40),
  primary key(cust_id));
desc customer;
                                                Export: Wrap Cell Content: IA
  Result Grid Filter Rows:
      Field
                                                 Default
                                  Nul
                                         Key
                                                            Extra
                 Type
                                                NULL
     cust_id
                                         PRI
                 int
                                 NO
                                               NULL
                varchar(30)
      cnmae
                                 YES
                                               NULL
      city
                 varchar(40)
                                 YES
/* ORDERS Table */
create table orders(
  order_no int,
  odate date,
  cust_id int,
  ord_amt int,
  primary key(order_no),
  foreign key(cust_id)references customer (cust_id));
```

desc orders;



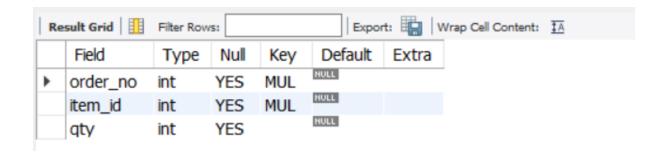
```
/* ITEM Table */
create table item(
  item_id int,
  price int,
  primary key(item_id));
```

# desc item;



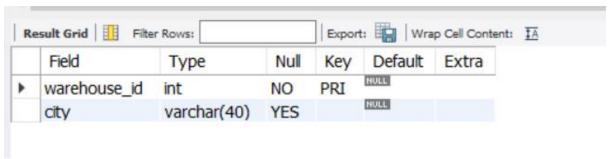
```
/* ORDER_ITEM Table */
create table order_item(
    order_no int,
    item_id int,
    qty int,
    foreign key(order_no)references orders (order_no),
    foreign key(item_id)references item(item_id)on delete set NULL);
```

desc order\_item;



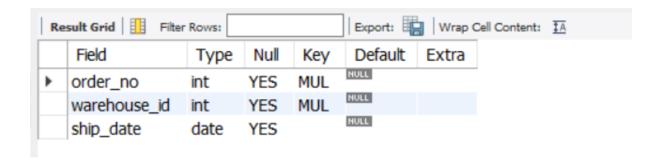
```
/* WAREHOUSE Table */
create table warehouse(
  warehouse_id int,
  city varchar(40),
  primary key(warehouse_id));
```

### desc warehouse;



```
/* SHIPMENT Table */
create table shipment(
    order_no int,
    warehouse_id int,
    ship_date date,
    foreign key(order_no)references orders(order_no),
    foreign key(warehouse_id)references warehouse(warehouse_id));
```

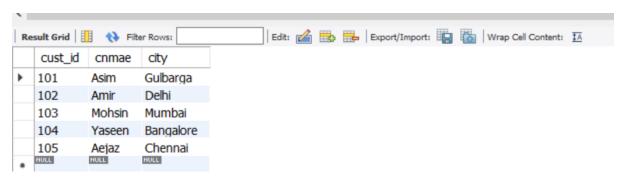
desc shipment;



/\* Inserts Values To The CUSTOMER Table \*/

INSERT INTO customer (cust\_id, cnmae, city) VALUES (101, 'Asim', 'Gulbarga');
INSERT INTO customer (cust\_id, cnmae, city) VALUES (102, 'Amir', 'Delhi');
INSERT INTO customer (cust\_id, cnmae, city) VALUES (103, 'Mohsin', 'Mumbai');
INSERT INTO customer (cust\_id, cnmae, city) VALUES (104, 'Yaseen', 'Bangalore');
INSERT INTO customer (cust\_id, cnmae, city) VALUES (105, 'Aejaz', 'Chennai');

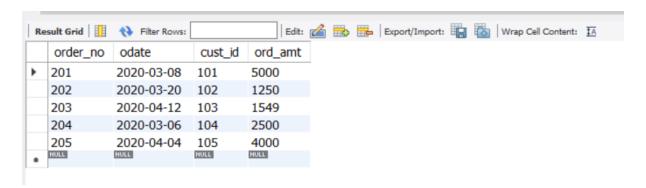
# select \* from customer;



#### /\* Inserts Values To The ORDERS Table \*/

INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('201', '2020-03-08', '101', '5000'); INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('202', '2020-03-20', '102', '1250'); INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('203', '2020-04-12', '103', '1549'); INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('204', '2020-03-06', '104', '2500'); INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('205', '2020-04-04', '105', '4000');

select \* from orders;



#### /\* Inserts Values To The ITEM Table \*/

INSERT INTO item (item\_id, price) VALUES ('301', '2500');

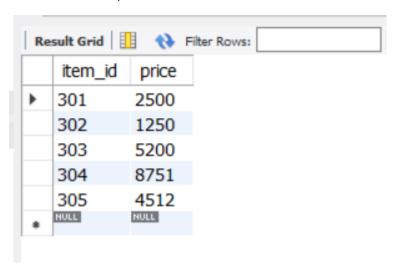
INSERT INTO item (item\_id, price) VALUES ('302', '1250');

INSERT INTO item (item\_id, price) VALUES ('303', '5200');

INSERT INTO item (item\_id, price) VALUES ('304', '8751');

INSERT INTO item (item\_id, price) VALUES ('305', '4512');

#### select \* from item;



/\* Inserts Values To The ORDER\_ITEM Table \*/

INSERT INTO order\_item (order\_no, item\_id, qty) VALUES ('201', '301', '2');

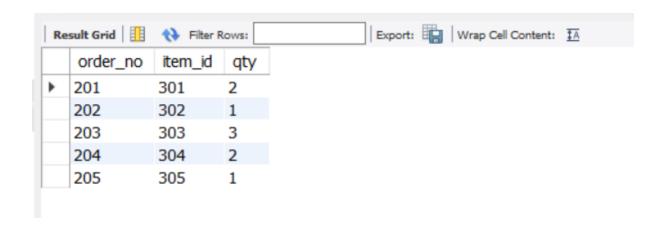
INSERT INTO order\_item (order\_no, item\_id, qty) VALUES ('202', '302', '1');

INSERT INTO order\_item (order\_no, item\_id, qty) VALUES ('203', '303', '3');

INSERT INTO order item (order no, item id, qty) VALUES ('204', '304', '2');

INSERT INTO order\_item (order\_no, item\_id, qty) VALUES ('205', '305', '1');

select \* from order item;



/\* Inserts Values To The WAREHOUSE Table \*/

INSERT INTO warehouse (warehouse\_id, city) VALUES ('501', 'Bangalore');

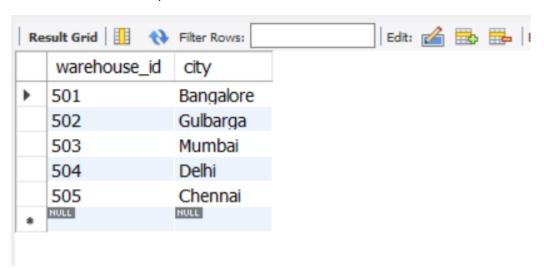
INSERT INTO warehouse (warehouse\_id, city) VALUES ('502', 'Gulbarga');

INSERT INTO warehouse (warehouse\_id, city) VALUES ('503', 'Mumbai');

INSERT INTO warehouse (warehouse\_id, city) VALUES ('504', 'Delhi');

INSERT INTO warehouse (warehouse\_id, city) VALUES ('505', 'Chennai');

#### select \* from warehouse;

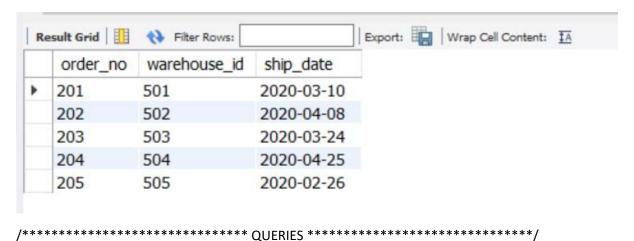


### /\* Inserts Values To The SHIPMENT Table \*/

INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('201', '501', '2020-03-10');
INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('202', '502', '2020-04-08');
INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('203', '503', '2020-03-24');

INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('204', '504', '2020-04-25'); INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('205', '505', '2020-02-26');

### select \* from shipment;



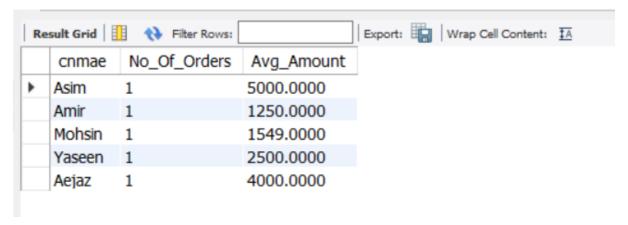
/\* 01. Produce a listing: CUSTNAME, #oforders, AVG\_ORDER\_AMT, where the middle column is the total numbers of orders by the customer and the last column is the average order amount for that customer. \*/

select C.cnmae,count(order\_no) as No\_Of\_Orders,avg(ord\_amt) as Avg\_Amount

from customer C, orders O

where C.cust\_id = O.cust\_id

group by C.cnmae;



/\* 02. List the order# for orders that were shipped from all warehouses that the company has in a specific city. \*/

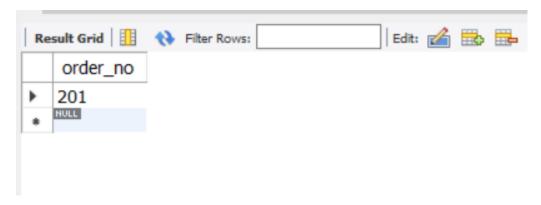
select order no from orders where order no in

(select order no from shipment

where warehouse\_id in

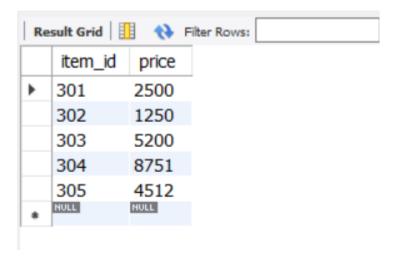
(select warehouse\_id from warehouse

where city = 'Bangalore'));



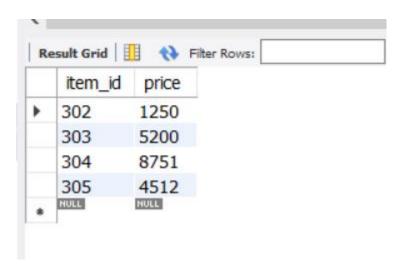
/\* 03. Demonstrate how you delete item# 10 from the ITEM table and make that field null in the ORDER\_ITEM table. \*/

select \* from item;

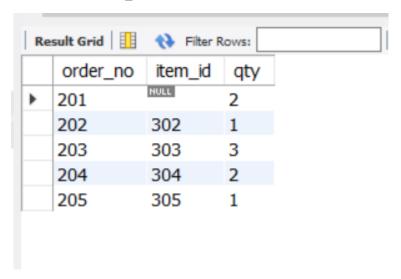


delete from item where item\_id = 301;

select \* from item;



select \* from order\_item;



commit;