LAB PROGRAM 6 ORDER PROCESSING

create database order\_processing;

/\* CUSTOMER Table \*/

create table customer(

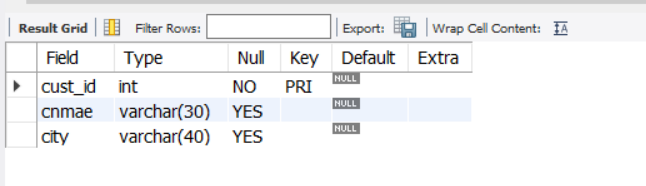
cust\_id int,

cnmae varchar(30),

city varchar(40),

primary key(cust\_id));

desc customer;



/\* ORDERS Table \*/

create table orders(

order\_no int,

odate date,

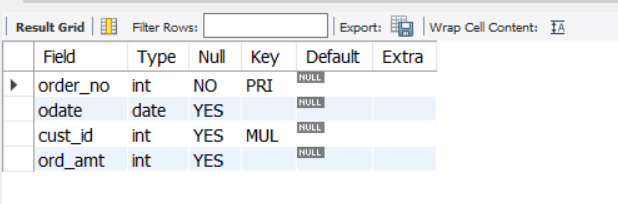
cust\_id int,

ord\_amt int,

primary key(order\_no),

foreign key(cust\_id)references customer (cust\_id));

desc orders;



/\* ITEM Table \*/

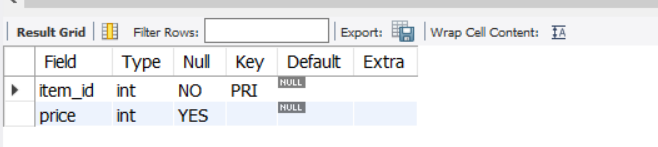
create table item(

item\_id int,

price int,

primary key(item\_id));

desc item;



/\* ORDER\_ITEM Table \*/

create table order\_item(

order\_no int,

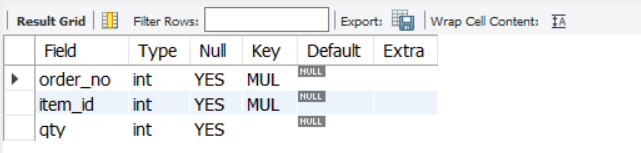
item\_id int,

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 \*/

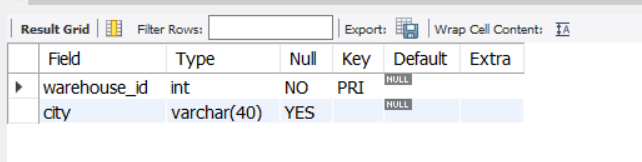
create table warehouse(

warehouse\_id int,

city varchar(40),

primary key(warehouse\_id));

desc warehouse;



/\* SHIPMENT Table \*/

create table shipment(

order\_no int,

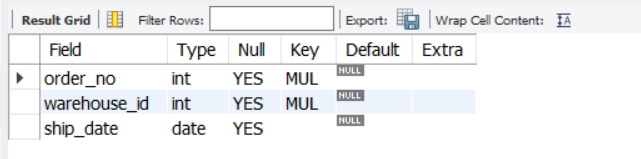
warehouse\_id int,

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');

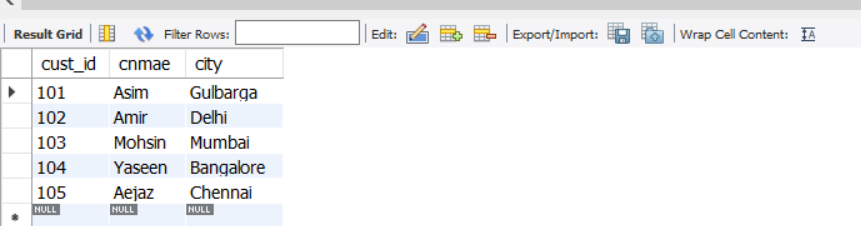
INSERT INTO customer (cust\_id, cnmae, city) VALUES (102, 'Amir', 'Delhi');

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');

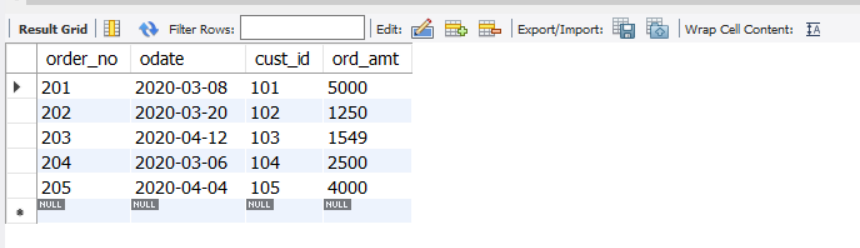
INSERT INTO orders (order\_no, odate, cust\_id, ord\_amt) VALUES ('202', '2020-03-20', '102', '1250');

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');

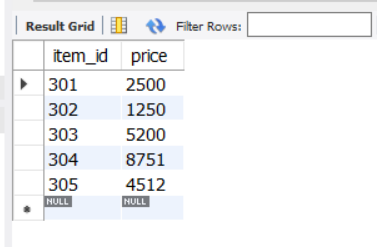
INSERT INTO item (item\_id, price) VALUES ('302', '1250');

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');

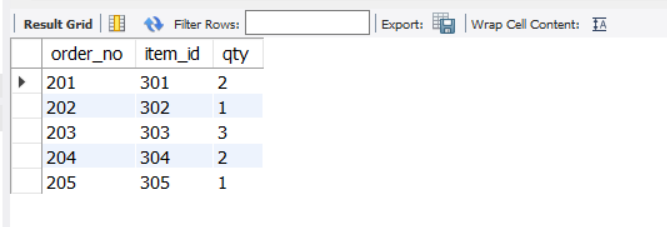
INSERT INTO order\_item (order\_no, item\_id, qty) VALUES ('202', '302', '1');

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');

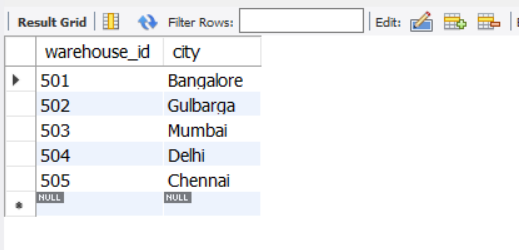
INSERT INTO warehouse (warehouse\_id, city) VALUES ('502', 'Gulbarga');

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');

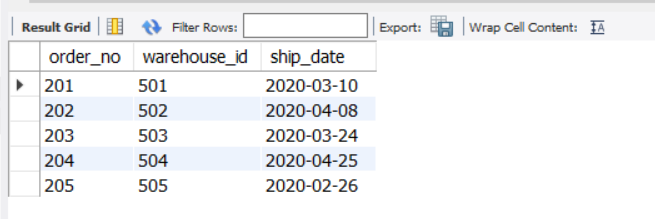
INSERT INTO shipment (order\_no, warehouse\_id, ship\_date) VALUES ('202', '502', '2020-04-08');

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;



/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* QUERIES \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

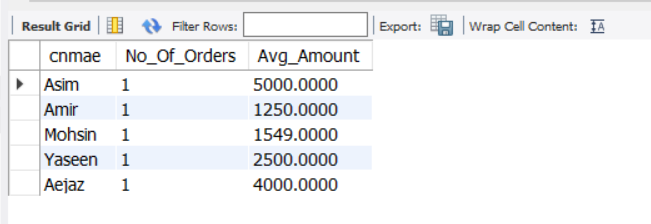
/\* 01. Produce a listing: CUSTNAME, #oforders, AVG\_ORDER\_AMT, where the middle column is the total numbers of orders by the customer and the last column is the average order amount for that customer. \*/

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. \*/

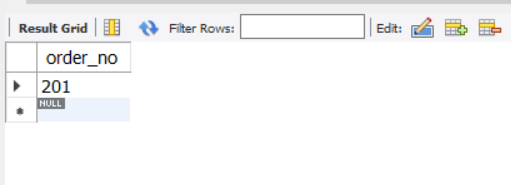
select order\_no from orders where order\_no in

(select order\_no from shipment

where warehouse\_id in

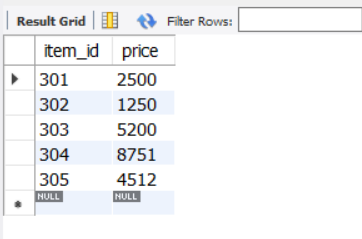
(select warehouse\_id from warehouse

where city = 'Bangalore'));



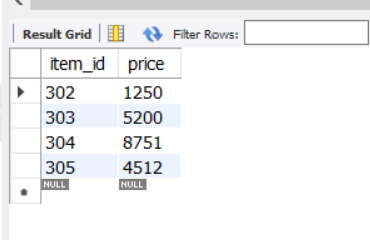
/\* 03. Demonstrate how you delete item# 10 from the ITEM table and make that field null in the ORDER\_ITEM table. \*/

select \* from item;

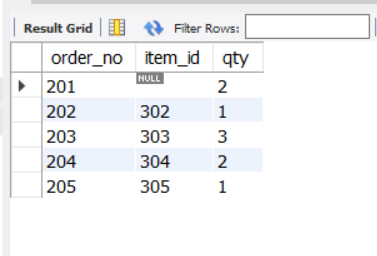


delete from item where item\_id = 301;

select \* from item;



select \* from order\_item;



commit;