create database lab4;

create table Warehouses(

code integer primary key,

location varchar NOT NULL,

capacity integer

);

create table Boxes(

code character(4) primary key,

contents varchar(255),

value real,

warehouse integer references Warehouses(code)

);

drop table Boxes

INSERT INTO Warehouses(code, location, capacity) VALUES(1, 'Chicago', 3);

INSERT INTO Warehouses(code, location, capacity) VALUES(2, 'Rocks', 4);

INSERT INTO Warehouses(code, location, capacity) VALUES(3, 'New York', 7);

INSERT INTO Warehouses(code, location, capacity) VALUES(4, 'Los Angeles', 2);

INSERT INTO Warehouses(code, location, capacity) VALUES(5, 'San Francisco', 8);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('0MN7', 'Rocks', 180, 3);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('4H8P', 'Rocks', 250, 1);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('4RT3', 'Scissors', 190, 4);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('7G3H', 'Rocks', 200, 1);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('8JN6', 'Papers', 75, 1);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('8Y6U', 'Papers', 50, 3);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('9J6F', 'Papers', 175, 2);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('LL08', 'Rocks', 140, 4);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('P0H6', 'Scissors', 125, 1);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('P2T6', 'Scissors', 150, 2);

INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('TU55', 'Papers', 90, 5);

select \* from Warehouses;

select \* from Boxes

where value > 150;

select distinct on (contents)\* from Boxes;

select warehouse,count(\*) from Boxes

group by warehouse;

select warehouse,count(\*) from Boxes

group by warehouse

having count(\*) > 2;

insert into Warehouses(code, location, capacity) VALUES(6, 'New York', 3);

insert into Boxes(code, contents, value, warehouse) VALUES ('H5RT', 'Papers', 200, 2);

update Boxes

set value = value \* 0.85

where value = (select value from Boxes order by value desc limit 1 offset 2);

delete from Boxes

where value < 150;

delete from Boxes

where warehouse in (select code from Warehouses where location = 'New York')

returning \*;