

```

create database lab4;
create table Warehouses(
    code int Primary Key ,
    location VARCHAR(255),
    capacity int
);
create table Boxes(
    code char(4) primary key ,
    contents VARCHAR(255),
    value real,
    warehouse int REFERENCES Warehouses(code) on update cascade on delete cascade
);
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 ('TUSS', 'Papers', 90, 5);
4)
select *
from Warehouses;
5)
select *
from Boxes
where value > 150;
6)
select distinct contents
from Boxes;
7)
select warehouse, count(*) as numBoxes
from Boxes
GROUP BY warehouse
order by warehouse;
8)
select warehouse, count(*) as numBoxes
from Boxes
GROUP BY warehouse
having count(*) > 2
order by warehouse;
9)
INSERT INTO Warehouses(code, location, capacity) VALUES(6, 'New York', 3);
10)
INSERT INTO Boxes(code, contents, value, warehouse) VALUES ('H5RT', 'Papers', 200, 2);
11)

```

```
update Boxes
set value = value - value*0.15
where value = (select value
               from Boxes
               order by value desc
               offset 2 limit 1);
```

12)

```
DELETE from Boxes
where value < 150;
```

13)

```
DELETE from Boxes
where warehouse in (select code
                    from warehouses
                    where location = 'New York')
returning *;
```

```
select *
from Boxes;
select *
from warehouses;
```