1. create database lab4;

```
2. create table Warehouses (
    code integer primary key,
    location varchar(255),
    capacity integer
);
```

```
create table Boxes (
    code char(4) primary key,
    contents varchar(255),
    value real,
    warehouse integer,
    foreign key (warehouse) references Warehouses(code)
);
```

3. done

4. select * from Warehouses;

	驔 code	‡	■ location	‡	I ≣ capacity	‡
1		1	Chicago			3
2		2	Rocks			4
3		3	New York			7
4		4	Los Angeles			2
5		5	San Francisko			8

```
5. select *
from boxes
where value > 150;
```

	📭 code 💠	I contents ÷	∎ value ‡	📭 warehouse 🕏
1	0MN7	Rocks	180	3
2	4H8P	Rocks	250	1
3	4RT3	Scissors	190	4
4	7G3H	Rocks	200	1
5	9J6F	Papers	175	2

```
6. select distinct on (contents) *
from boxes;
```

	📭 code 💠	.⊞ contents ÷	ु≣ value 🕏	🌠 warehouse 🕏
1	TUSS	Papers	90	5
2	LL08	Rocks	140	4
3	P2T6	Scissors	150	2

```
7. select warehouse, value
from boxes
group by (warehouse, value);
```

	I ≣ warehouse	‡	I ≣ value ≎
1		1	250
2		1	125
3		3	180
4		1	200
5		2	150
6		5	90
7		2	175
8		1	75
9		4	190
10		3	50
11		4	140

7. select warehouse, count(value)
from boxes
group by (warehouse);

	⊞ warehouse	‡	🖪 count	‡
1		3		2
2		5		1
3		4		2
4		2		2
5		1		4

8. select warehouse, value
from boxes
group by (warehouse, value)
having warehouse > 2;

	■ warehouse	‡	I≣ value ≎
1		5	90
2		3	180
3		3	50
4		4	140
5		4	190

```
8. select warehouse, count(value)
from boxes
group by (warehouse, value)
having warehouse > 2;
```

	🔢 warehouse	‡	III count	‡
1		5		1
2		3		1
3		3		1
4		4		1
5		4		1

9. insert into warehouses (code, location, capacity)
values (6, 'New York', 3);

	🌇 code 🤄	‡	.⊞ location	‡	🍱 capacity	‡
1		1	Chicago			3
2		2	Rocks			4
3		3	New York			7
4		4	Los Angeles			2
5		5	San Francisko			8
6		6	New York			3

10. insert into boxes (code, contents, value, warehouse)
values ('H5RT', 'Papers', 200, 2);

	. Foode ≎	. contents ≎	ु≣ value ≎	驔 warehouse 🕏
1	0MN7	Rocks	180	3
2	4H8P	Rocks	250	1
3	4RT3	Scissors	190	4
4	7G3H	Rocks	200	1
5	8JN6	Papers	75	1
6	8Y6U	Papers	50	3
7	9J6F	Papers	175	2
8	LL08	Rocks	140	4
9	P0H6	Scissors	125	1
10	P2T6	Scissors	150	2
11	TUSS	Papers	90	5
12	H5RT	Papers	200	2

11. update boxes
set value = value * 0.85
where value = (select value from boxes order by value desc limit 1 offset 2);

	. ₹ code \$.⊞ contents	🍱 value		驔 warehouse	‡
1	4H8P	Rocks	2	50		1
2	H5RT	Papers	2	00		2
3	7G3H	Rocks	2	00		1
4	4RT3	Scissors	1	90		4
5	0MN7	Rocks	1	80		3
6	9J6F	Papers	1	75		2
7	P2T6	Scissors	1	50		2
8	LL08	Rocks	1	40		4
9	P0H6	Scissors	1:	25		1
10	TUSS	Papers		90		5
11	8JN6	Papers		75		1
12	8Y6U	Papers	!	50		3

	. ₹ code \$. contents ≎	ৣ≣ value ≑	📭 warehouse 💠
1	4H8P	Rocks	250	1
2	4RT3	Scissors	190	4
3	OMN7	Rocks	180	3
4	9J6F	Papers	175	2
5	H5RT	Papers	170	2
6	7G3H	Rocks	170	1
7	P2T6	Scissors	150	2
8	LL08	Rocks	140	4
9	P0H6	Scissors	125	1
10	TUSS	Papers	90	5
11	8JN6	Papers	75	1
12	8Y6U	Papers	50	3

```
11. update boxes
set value = value * 0.85
where value = (select distinct (value) from boxes order by value desc limit 1
offset 2);
```

	. ₹ code \$.⊞ contents ÷	🍱 value 🕏	驔 warehouse 🕏
1	4H8P	Rocks	250	1
2	7G3H	Rocks	200	1
3	H5RT	Papers	200	2
4	0MN7	Rocks	180	3
5	9J6F	Papers	175	2
6	4RT3	Scissors	161.5	4
7	P2T6	Scissors	150	2
8	LL08	Rocks	140	4
9	P0H6	Scissors	125	1
10	TUSS	Papers	90	5
11	8JN6	Papers	75	1
12	8Y6U	Papers	50	3

12. delete
from boxes
where value < 150;</pre>

	📭 code 💠	.⊞ contents ÷	💶 value 🕏	驔 warehouse 🕏
1	0MN7	Rocks	180	3
2	4H8P	Rocks	250	1
3	7G3H	Rocks	200	1
4	9J6F	Papers	175	2
5	P2T6	Scissors	150	2
6	H5RT	Papers	200	2
7	4RT3	Scissors	161.5	4

13. delete
from boxes
where warehouse in (select code from warehouses where location = 'New York');

	. code ≎	.⊞ contents ÷	.⊞ value ≎	warehouse 🕏
1	4H8P	Rocks	250	1
2	7G3H	Rocks	200	1
3	9J6F	Papers	175	2
4	P2T6	Scissors	150	2
5	H5RT	Papers	200	2
6	4RT3	Scissors	161.5	4

	驔 code	‡	.⊞ location	‡	, ≣ capacity	‡
1		1	Chicago			3
2		2	Rocks			4
3		3	New York			7
4		4	Los Angeles			2
5		5	San Francisko			8
6		6	New York			3