ДАНА КЕНДЫБАЕВА LAB7

**create database** lab7;  
**create table** locations(  
 **location\_id serial primary key**,  
 **street\_address varchar**(25),  
 **postal\_code varchar**(12),  
 **city varchar**(30),  
 **state\_province varchar**(12)  
);  
**create table** departments(  
 **department\_id serial primary key**,  
 **department\_name varchar**(50) **unique**,  
 **budget int**,  
 **location\_id int references** locations  
);  
**create table** employees(  
 **employee\_id serial primary key**,  
 **first\_name varchar**(50),  
 **last\_name varchar**(50),  
 **email varchar**(50),  
 **phone\_number varchar**(20),  
 **salary int**,  
 **manager\_id int references** manager,  
 **department\_id int references** departments  
);  
**create table** job\_grades(  
 **grade char**(1),  
 **lowest\_salary int**,  
 **highest\_salary int**);  
**create table** manager(  
 **manager\_id serial primary key**,  
 **manager\_name varchar**(50)  
);  
**insert into** locations (**city**, **state\_province**) **values** (**'ala'**, **'hjhk'**),  
 (**'ast'**, **'hkhk'**),  
 (**'shym'**, **'hjhk'**),  
 (**'karg'**, **'hkhk'**),  
 (**'nyc'**, **'hkh'**),  
 (**'ds'**, **'london'**);  
**insert into** departments (**department\_name**, **location\_id**) **values** (**'small'**, 4),  
 (**'mega'**, 5),  
 (**'silkway'**, 4),  
 (**'globus'**, 1),  
 (**'walmart'**, 6),  
 (**'ikea'**, 6);  
**insert into** employees (**department\_id**, **first\_name**, **last\_name**, **manager\_id**, **salary**) **values**

(3, **'first'**, **'qqqq'**, **null**, 1350),

(1, **'second'**, **'bjj'**, 3, 1200),

(2, **'third'**, **'aab'**, 5, 900),

(3, **'forth'**, **'aabaa'**, **null**, 1050),

(4, **'fifth'**, **'aaa'**, 1, 1400),

(4, **'sixth'**, **'baaa'**, 2, 2000),

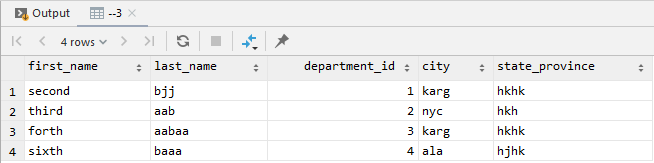
(5, **'seven'**, **'fdse'**, 3, 1000),

(6, **'eight'**, **'ferq'**, 4, 1900),

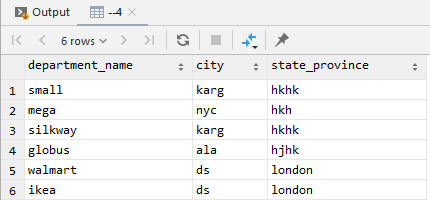
(6, **'nine'**, **'qeqe'**, 1, 1543),

(5, **'ten'**, **'uipop'**, 2, 888);  
**insert into** manager(**manager\_name**) **values** (**'alan'**),  
 (**'kim tan'**),  
 (**'aika'**),  
 (**'julia'**),  
 (**'fred'**);  
**insert into** job\_grades **values** (**'a'**, 800, 1300),  
 (**'b'**, 1301, 1500),  
 (**'c'**, 1501, 2100);  
*--3***select** e.**first\_name**, e.**last\_name**, e.**department\_id**, l.**city**, l.**state\_province from** departments **d  
 inner join** locations l **on d**.**location\_id** = l.**location\_id  
 inner join** employees e **on d**.**department\_id** = e.**department\_id  
 where last\_name like '%b%'**;  
*--4***select d**.**department\_name**, l.**city**, l.**state\_province from** locations l **inner join** departments **d on** l.**location\_id** = **d**.**location\_id**;  
*--5***select** e.**first\_name**, **m**.**manager\_name from** employees e **left join** manager **m on** e.**manager\_id** = **m**.**manager\_id**;  
*--6***SELECT** j.**grade**,  
 *count*(*\**),  
 *avg*(**salary**)  
**FROM** employees e   
 **join** job\_grades j **on** e.**salary   
 BETWEEN** j.**lowest\_salary AND** j.**highest\_salary   
group by** j.**grade**;  
*--7***select** e.**first\_name**, e.**last\_name**, l.**city from** departments **d  
 inner join** locations l **on d**.**location\_id** = l.**location\_id  
 inner join** employees e **on d**.**department\_id** = e.**department\_id  
 where** l.**city** = **'london'**;

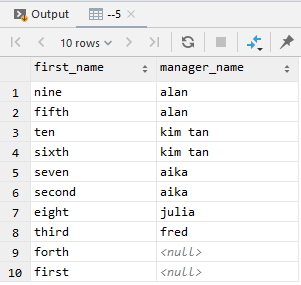
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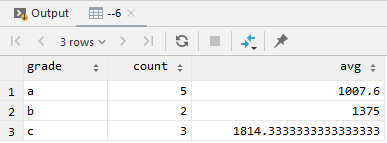
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#5



#6



#7

