

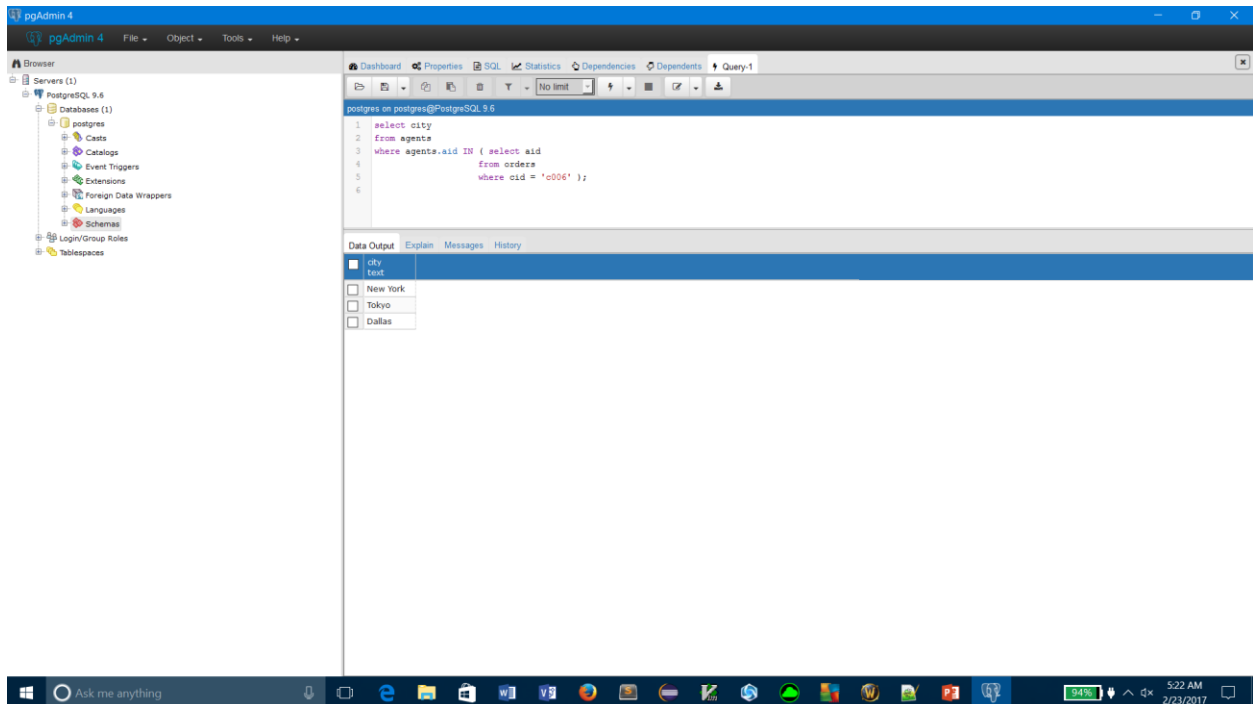
1. select city

from agents

where agents.aid IN ( select aid

from orders

where cid = 'c006' );



2. select DISTINCT pid

from orders

where cid IN (

select cid

from customers

where city = 'Kyoto'

)

ORDER BY pid DESC;

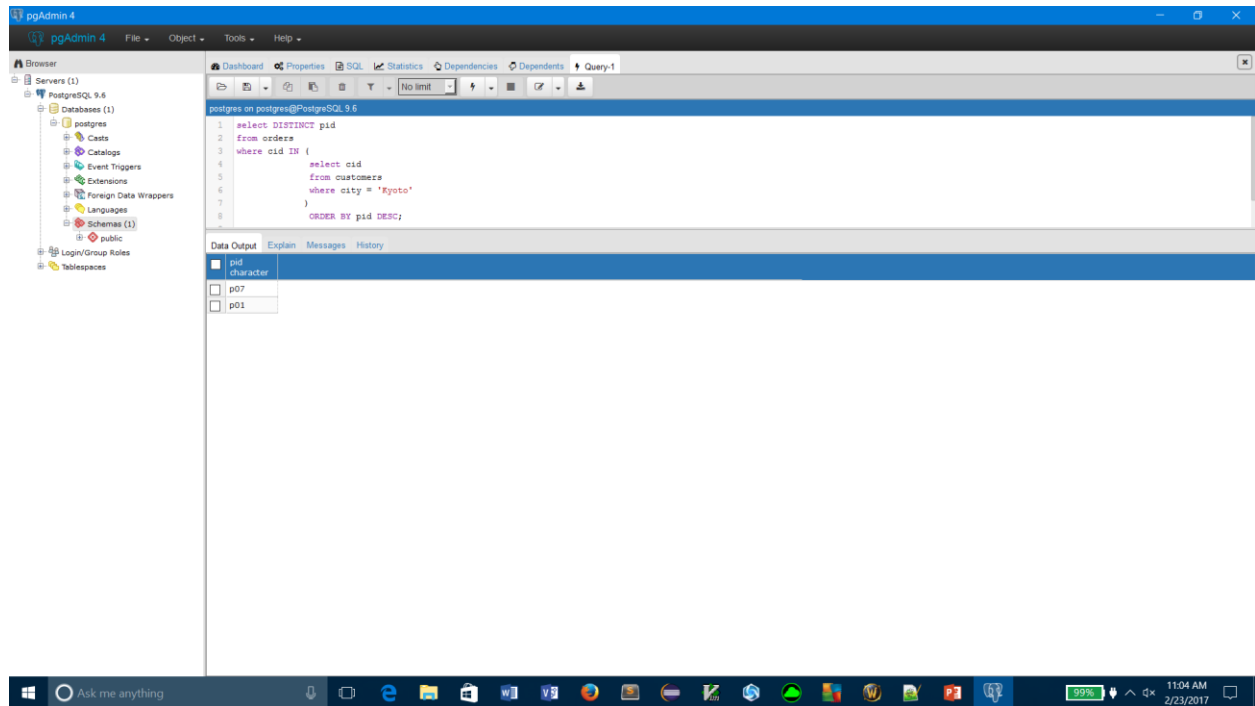
select aid, pid from orders where cid IN (

select cid

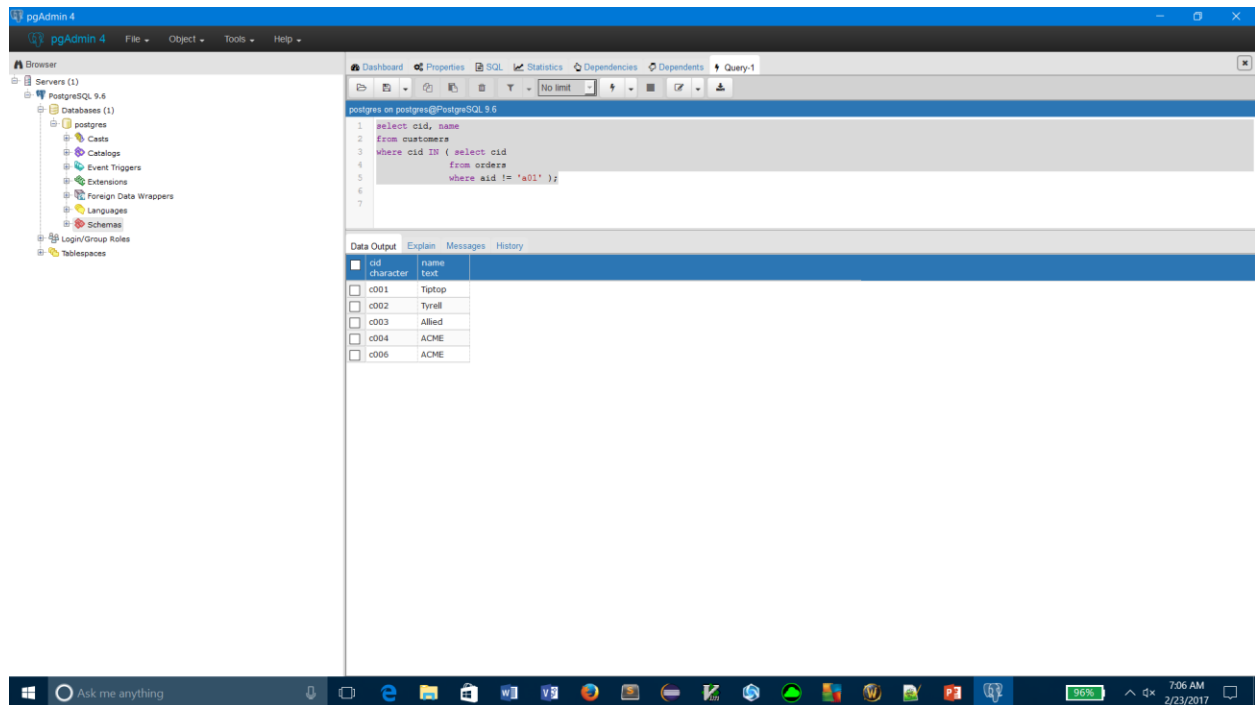
```
from customers

where city = 'Kyoto')

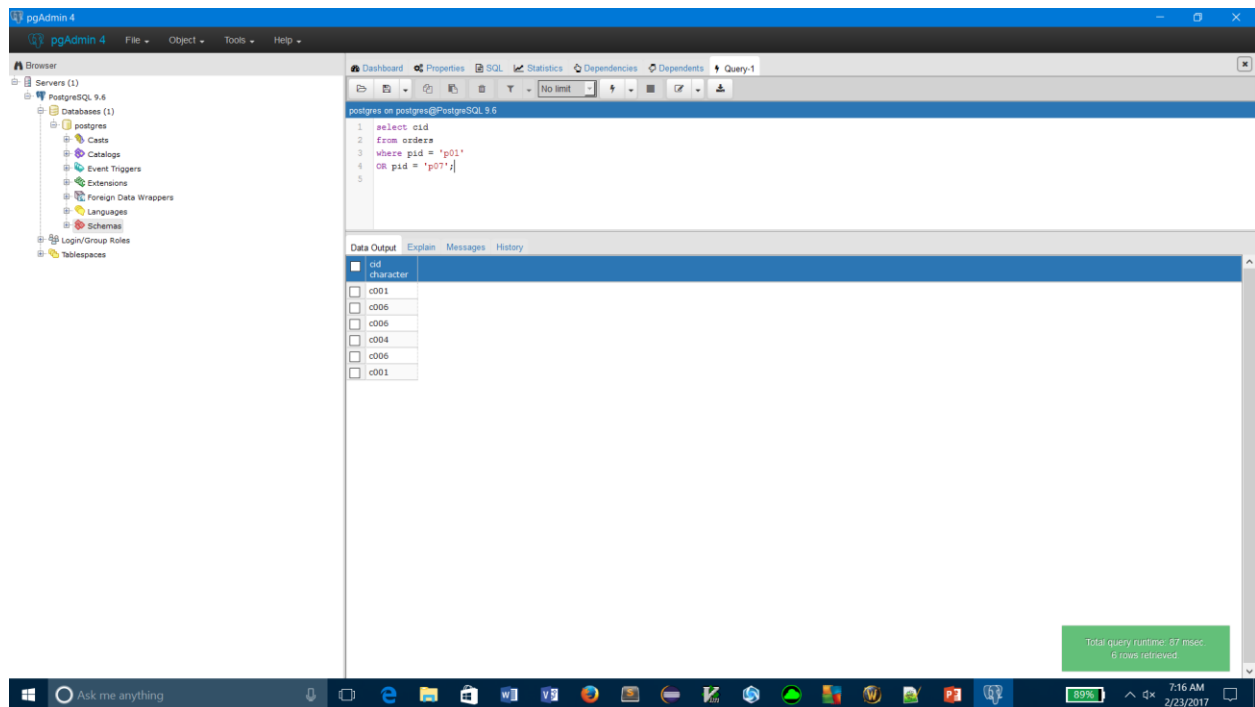
ORDER BY pid DESC;
```



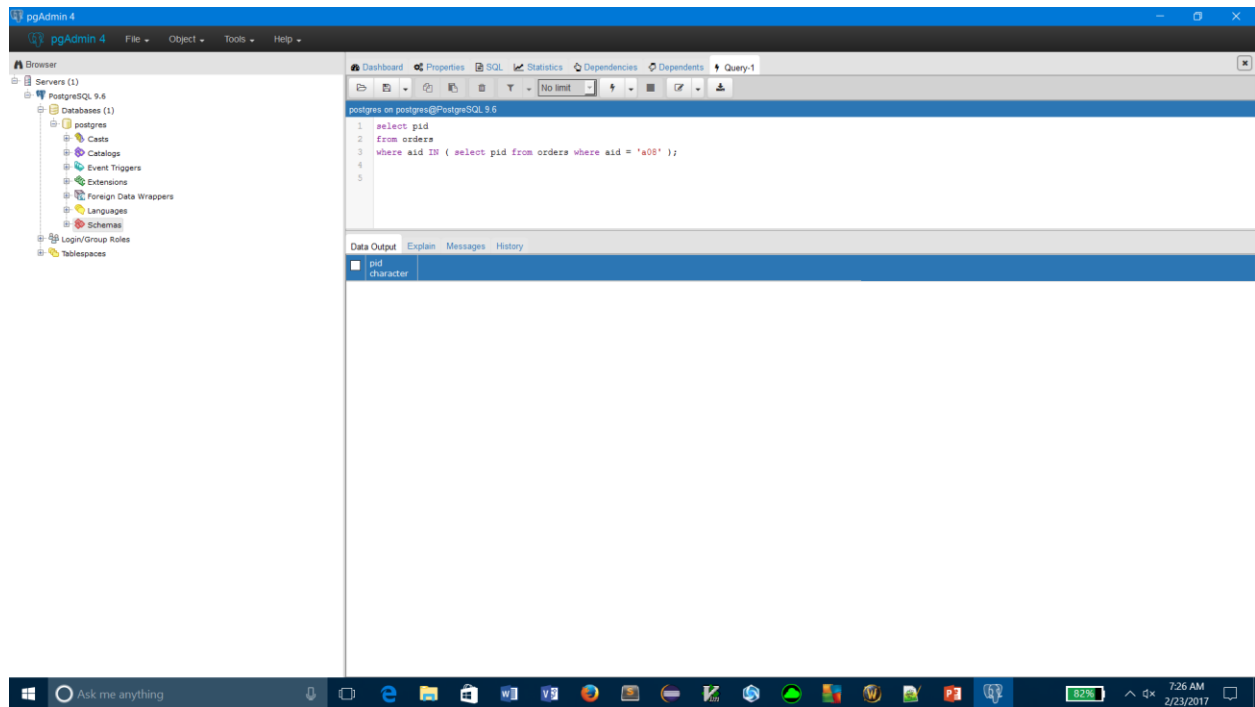
```
3. select cid, name
from customers
where cid IN ( select cid
                from orders
                where aid != 'a01' );
```



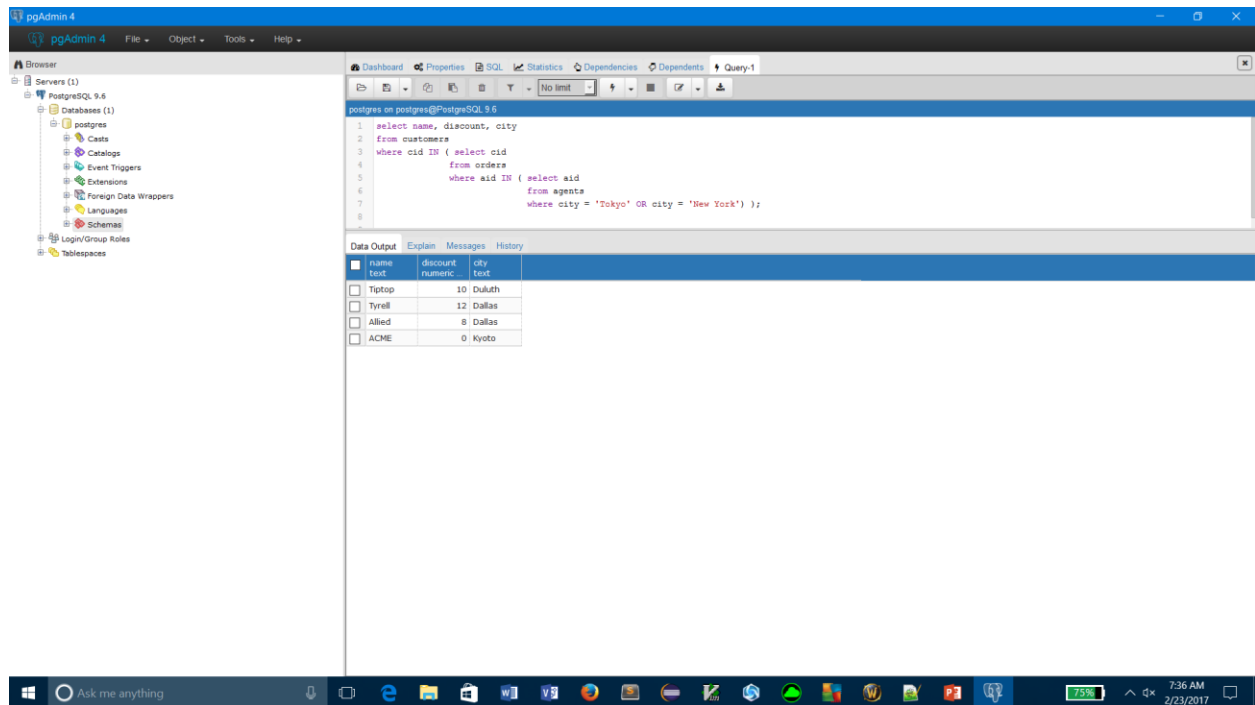
4. select cid  
from orders  
where pid = 'p01' OR  
pid = 'p07';



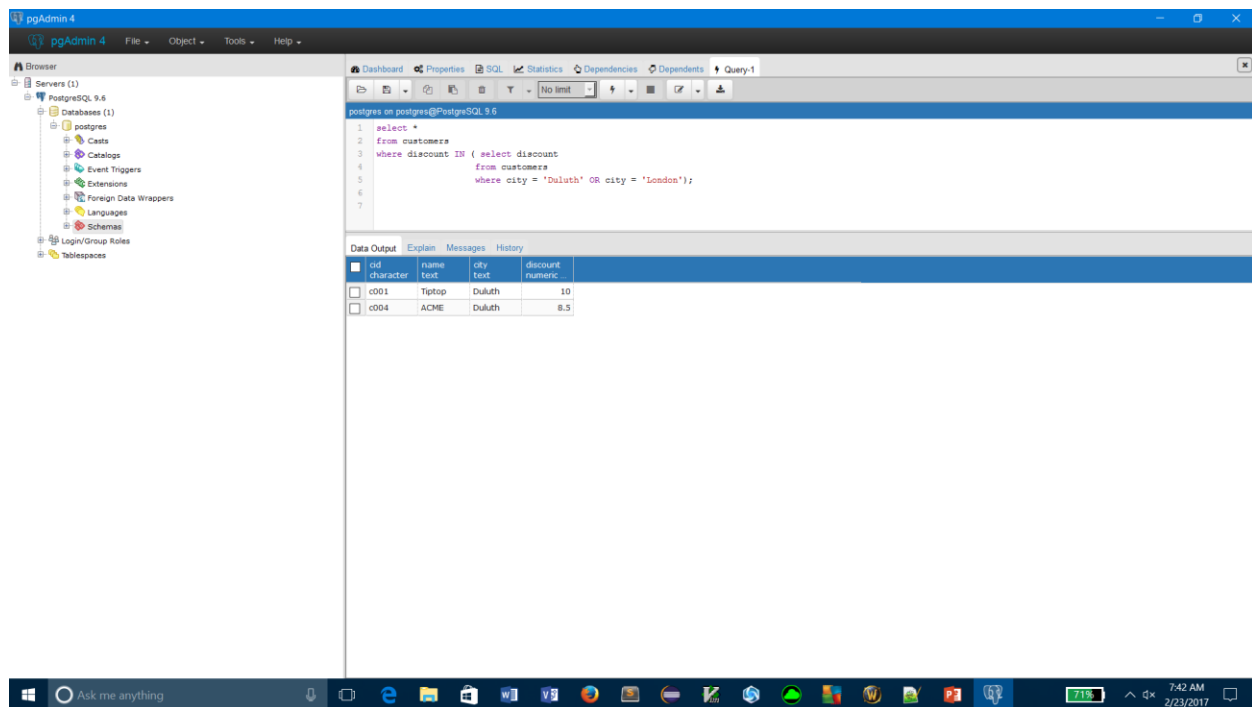
5. \*Trick question\* There is no aid = a08.



6. select name, discount, city  
from customers  
where cid IN ( select cid  
from orders  
where aid IN ( select aid  
from agents  
where city = 'Tokyo' OR city = 'New York') );



7. select \*  
from customers  
where discount IN ( select discount  
from customers  
where city = 'Duluth' OR city = 'London');



8. A check constraint is basically just used to limit the range of values that are to be placed onto a column. Defining a check constraint on only one column will allow certain values only in the given column. Defining check constraints on tables will limit the values given in particular columns which are to be based on values that are within other columns in that particular row. Check constraints are proven to be very useful in databases by enforcing rules without adding anymore logic. This is especially good for giving a database “data integrity” and also it helps a lot with databases being consistent.

An example of good usage of a check constraint would be for example you are analyzing the total number of sales amazon has made for this past month. You would need a check constraint to make sure the data outputted would only be relevant meaning data that occurred within the month you are researching and nothing else... Bad usage of check constraints would be to make every datatype null that way every value within the database would be unknown.