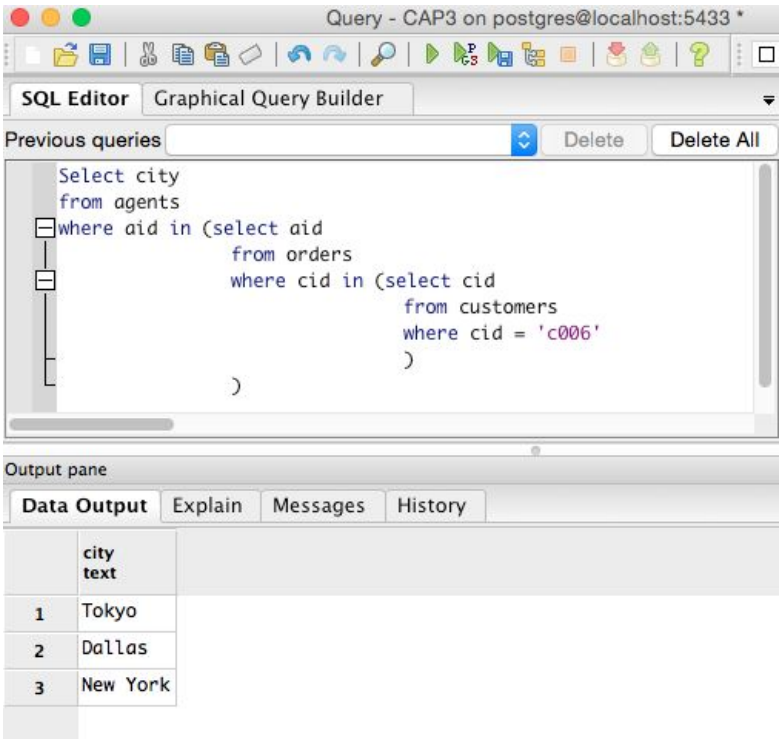
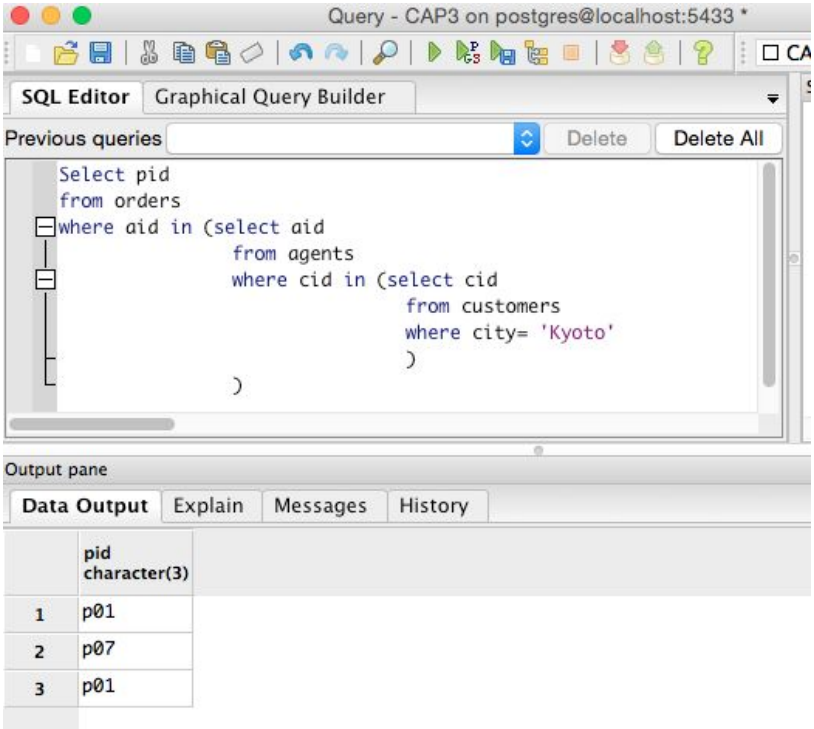
Scott Heinrich
Database Management Lab 4

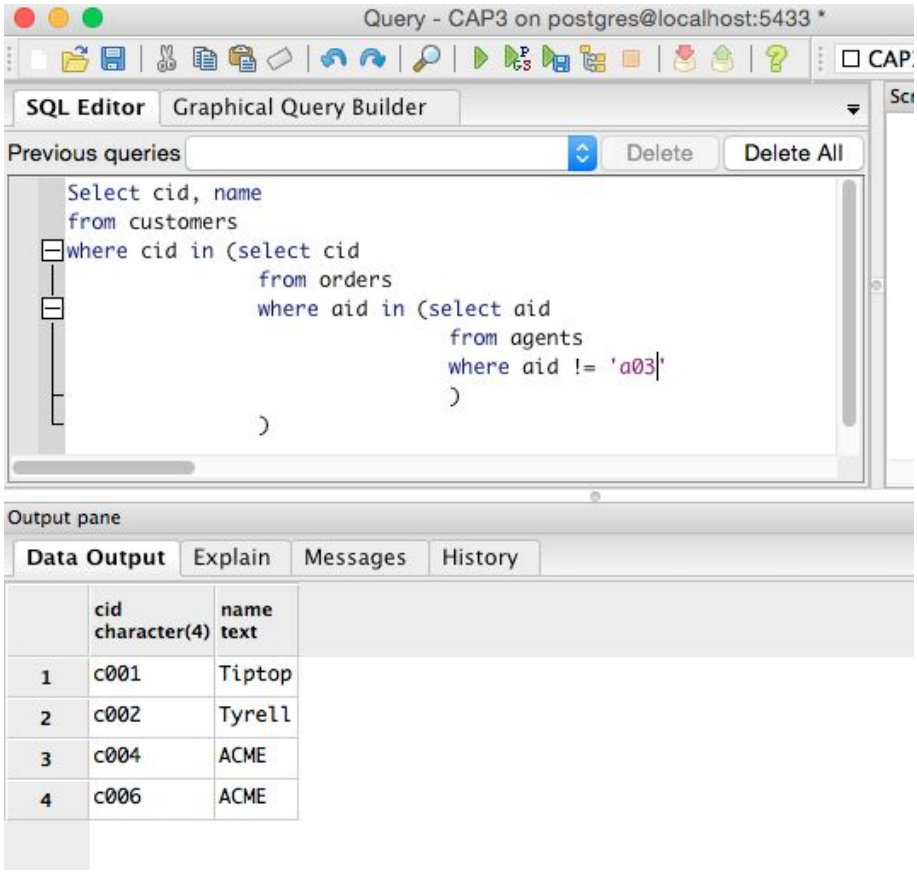
#1



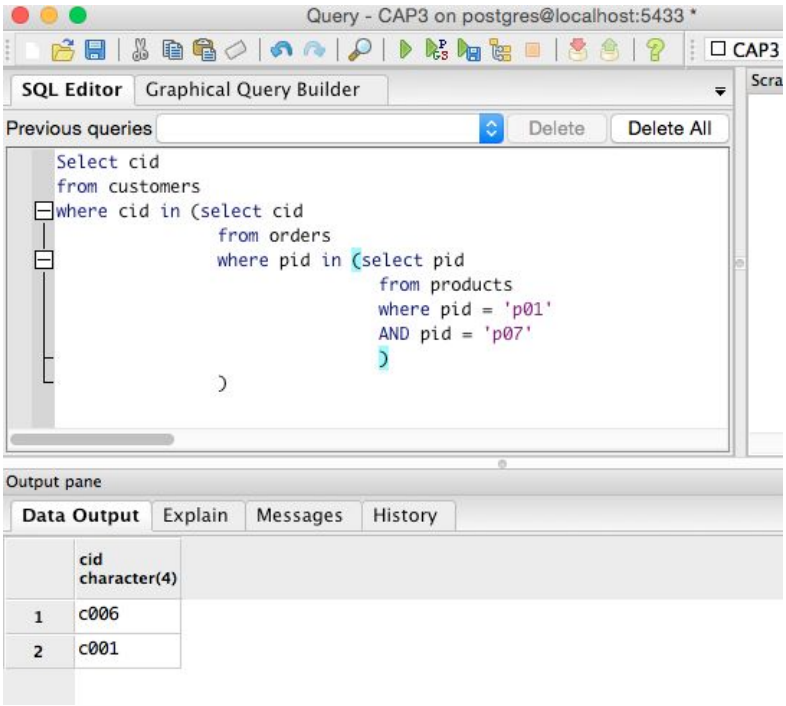
#2



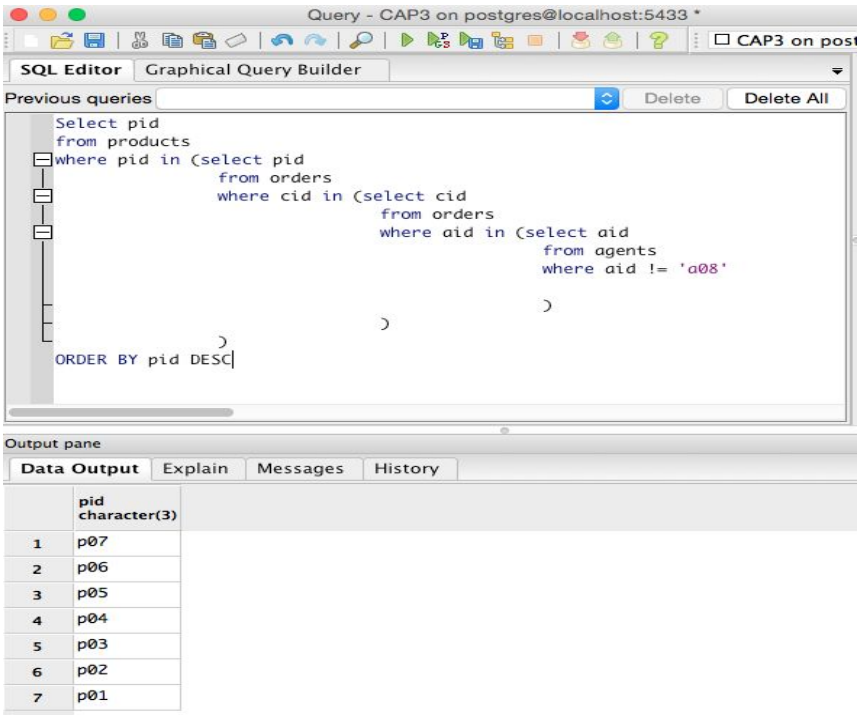
#3


Query - CAP3 on postgres@localhost:5433 *
SQL Editor
Graphical Query Builder
Previous queries
Delete
Delete All
Select cid, name
from customers
where cid in (select cid
from orders
where aid in (select aid
from agents
where aid != 'a03'
)
)
Output pane
Data Output
Explain
Messages
History
cid character(4)
name text
1 c001 Tiptop
2 c002 Tyrell
3 c004 ACME
4 c006 ACME

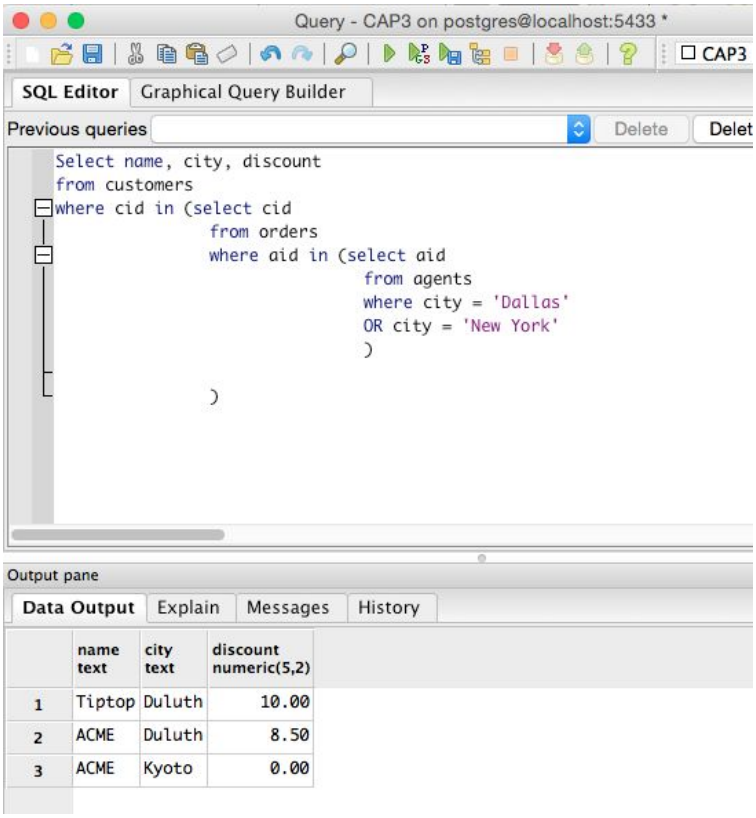
#4


Query - CAP3 on postgres@localhost:5433 *
SQL Editor
Graphical Query Builder
Previous queries
Delete
Delete All
Select cid
from customers
where cid in (select cid
from orders
where pid in (select pid
from products
where pid = 'p01'
AND pid = 'p07'
)
)
Output pane
Data Output
Explain
Messages
History
cid character(4)
1 c006
2 c001

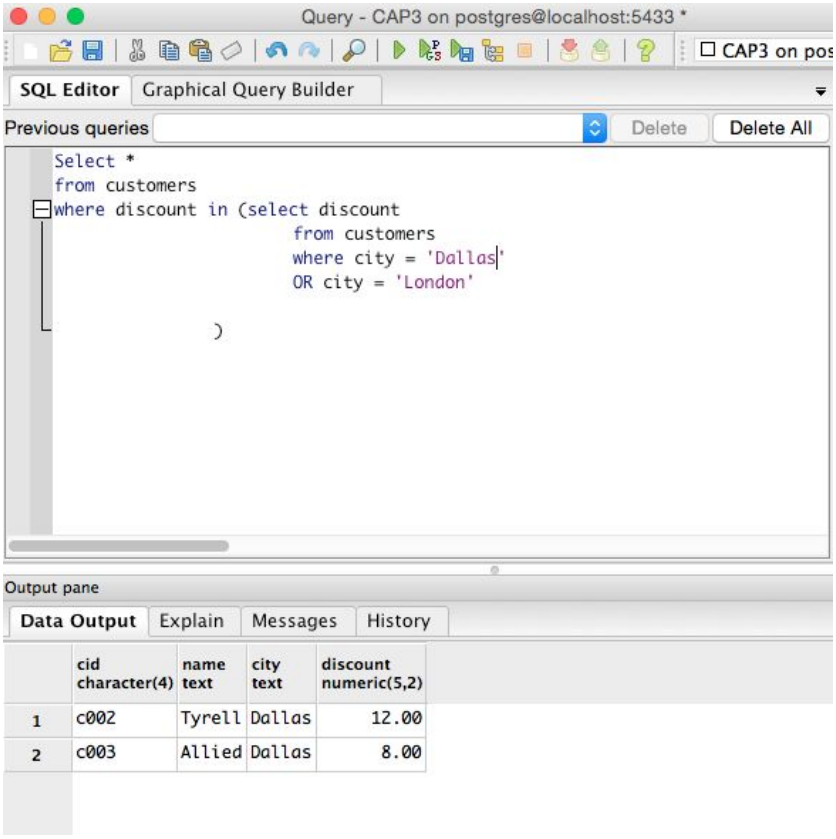
#5


Query - CAP3 on postgres@localhost:5433 *
SQL Editor
Graphical Query Builder
Previous queries
Delete
Delete All
Select pid
from products
where pid in (select pid
from orders
where cid in (select cid
from orders
where aid in (select aid
from agents
where aid != 'a08'
)
)
)
ORDER BY pid DESC
Output pane
Data Output
Explain
Messages
History
pid character(3)
1 p07
2 p06
3 p05
4 p04
5 p03
6 p02
7 p01

#6


Query - CAP3 on postgres@localhost:5433 *
CAP3
SQL Editor
Graphical Query Builder
Previous queries
Delete
Select name, city, discount
from customers
where cid in (select cid
from orders
where aid in (select aid
from agents
where city = 'Dallas'
OR city = 'New York'
)
)
Output pane
Data Output
Explain
Messages
History
name text
city text
discount numeric(5,2)
1 Tiptop Duluth 10.00
2 ACME Duluth 8.50
3 ACME Kyoto 0.00

#7



#8) Check constraints can be really useful when creating a database because it allows you to set limits. A check restraint is used to limit value ranges that can be used. If placed in a column, only certain values can be used in the column. If used on the table, only certain values can be used on the table. Etc. A simple use of check constraint is a limit on age. Let's say you own a liquor store and want to give people rewards points for buying liquor and wine. When creating your database, you could set a constraint on the age column in a customer table in your database. Obviously if you are selling alcohol you would want to ensure no one under the age of 21 is on there.