Name- Natnael Mengistu
CMPT 308
Lab_4

1)
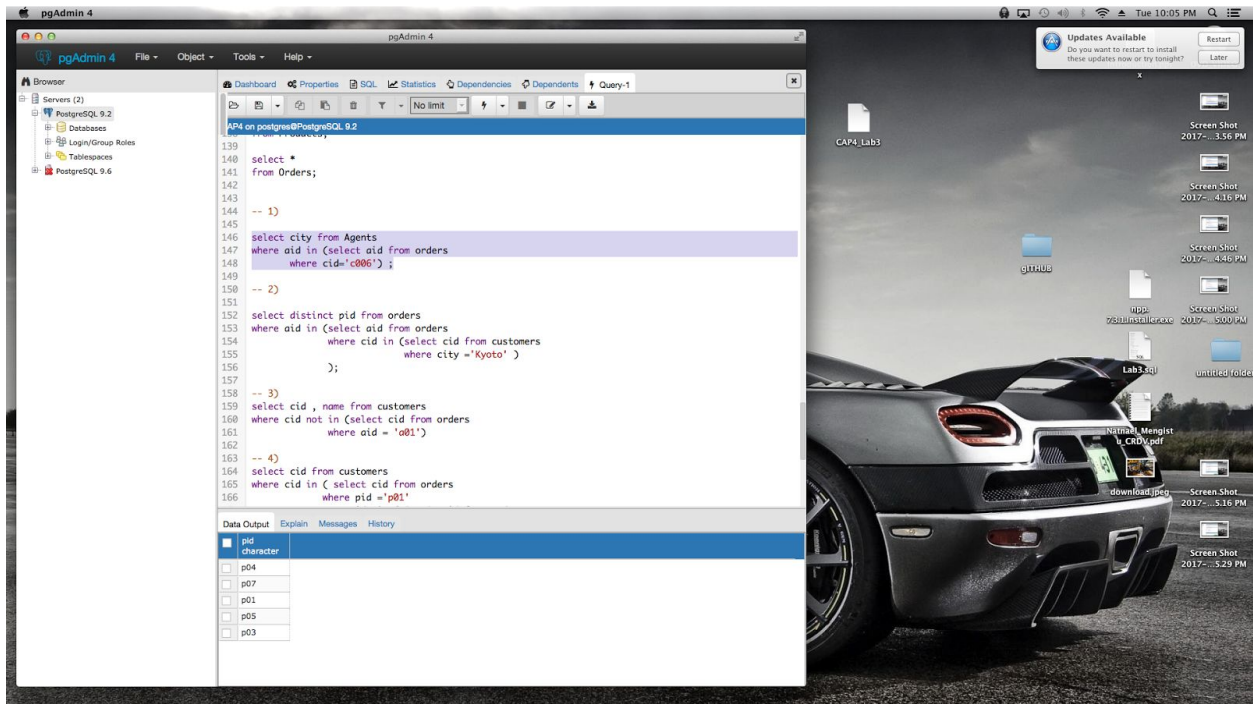
2)
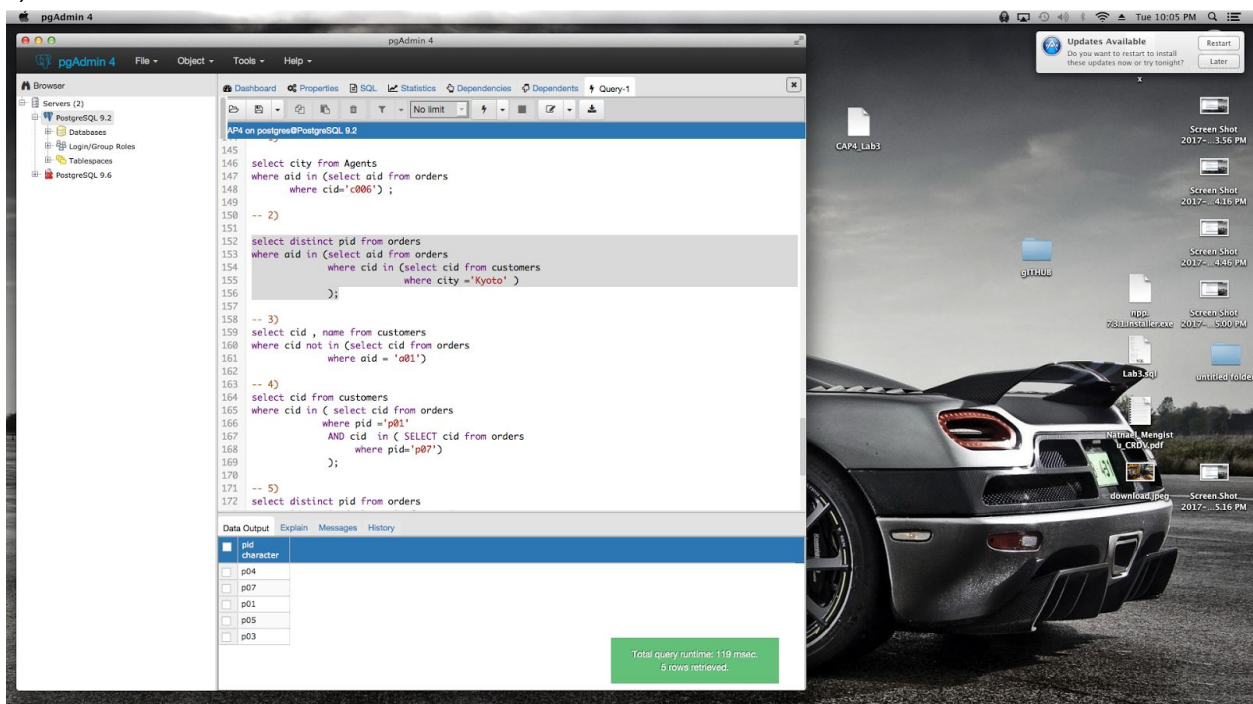
3)


```
151
152     select distinct pid from orders
153     where aid in (select aid from orders
154                         where cid in (select cid from customers
155                                         where city ='Kyoto' )
156                 );
157
158     -- 3)
159     select cid , name from customers
160     where cid not in (select cid from orders
161                         where aid = 'a01')
162
163     -- 4)
164     select cid from customers
165     where cid in ( select cid from orders
166                         where pid ='p01'
167                 AND cid  in ( SELECT cid from orders
168                         where pid='p07')
169                 );
170
171     -- 5)
172     select distinct pid from orders
173     where pid not in (select pid from orders
174                         where aid = 'a08' )
175      order by pid DESC ;
176
177     -- 6)
178     select name , discount, City from customers
```
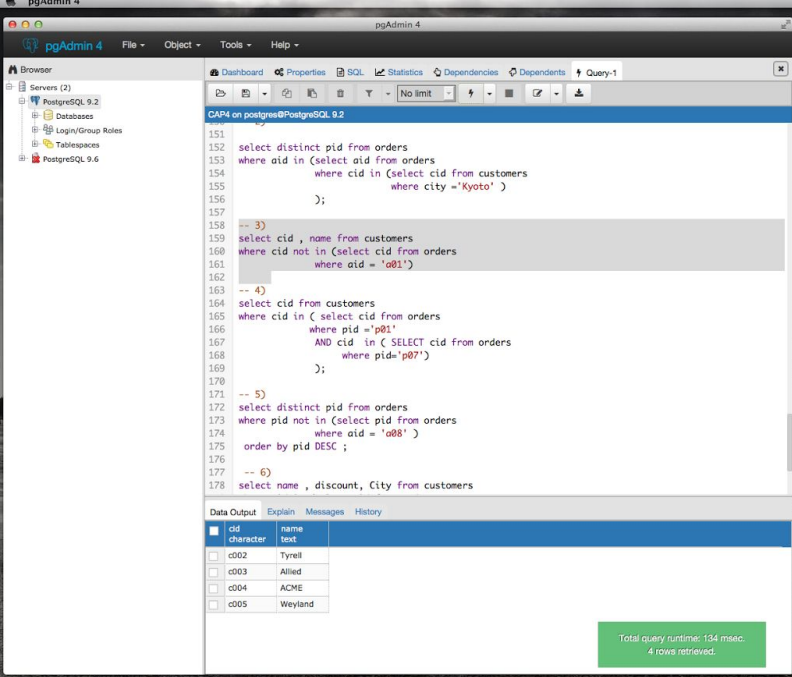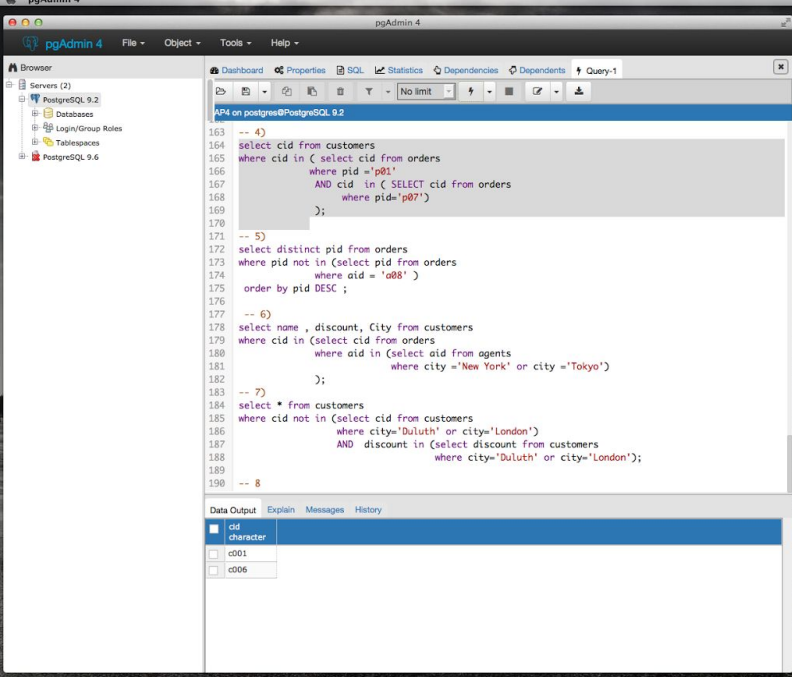
cid character	name text
c002	Tyrell
c003	Allied
c004	ACME
c005	Weyland

Total query runtime: 134 msec.
4 rows retrieved.

4)


```
163     -- 4)
164     select cid from customers
165     where cid in ( select cid from orders
166                         where pid ='p01'
167                 AND cid  in ( SELECT cid from orders
168                         where pid='p07')
169                 );
170
171     -- 5)
172     select distinct pid from orders
173     where pid not in (select pid from orders
174                         where aid = 'a08' )
175      order by pid DESC ;
176
177     -- 6)
178     select name , discount, City from customers
179     where cid in (select cid from orders
180                         where aid in (select aid from agents
181                                         where city ='New York' or city ='Tokyo')
182                 );
183     -- 7)
184     select * from customers
185     where cid not in (select cid from customers
186                         where city='Duluth' or city='London')
187                 AND  discount in (select discount from customers
188                                         where city='Duluth' or city='London');
189
190     -- 8
```

cid character
c001
c006

5)

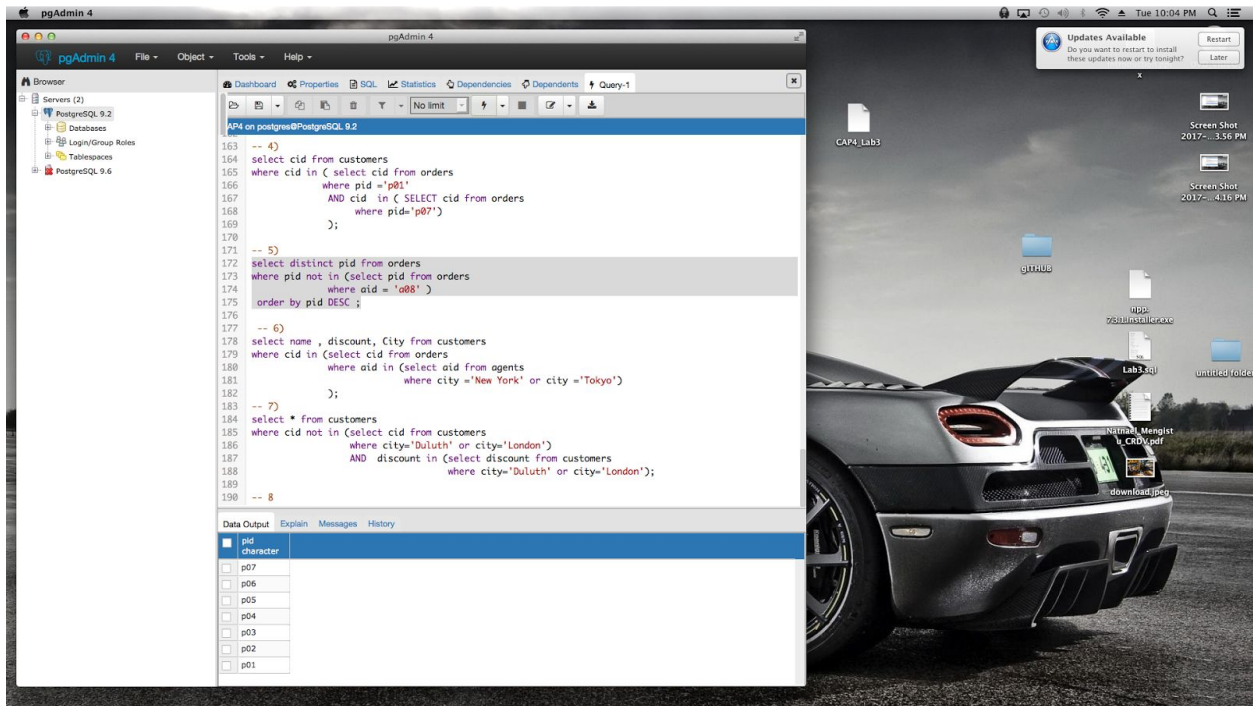6)


```
163   -- 4)
164   select cid from customers
165   where cid in ( select cid from orders
166              where pid ='p01'
167              AND cid  in ( SELECT cid from orders
168                   where pid='p07')
169              );
170
171   -- 5)
172   select distinct pid from orders
173   where pid not in (select pid from orders
174              where aid = 'a08' )
175    order by pid DESC ;
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177   -- 6)
178   select name , discount, City from customers
179   where cid in (select cid from orders
180              where aid in (select aid from agents
181                   where city ='New York' or city ='Tokyo')
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185   where cid not in (select cid from customers
186              where city='Duluth' or city='London')
187              AND  discount in (select discount from customers
188                   where city='Duluth' or city='London');
189
190   -- 8
```

Data Output | Explain | Messages | History

pid character
p07
p06
p05
p04
p03
p02
p01

7)


```
70
71   -- 5)
72   select distinct pid from orders
173   where pid not in (select pid from orders
174              where aid = 'a08' )
175    order by pid DESC ;
176
177    -- 6)
178   select name , discount, City from customers
179   where cid in (select cid from orders
180              where aid in (select aid from agents
181                   where city ='New York' or city ='Tokyo')
182              );
183   -- 7)
184   select * from customers
185   where cid not in (select cid from customers
186              where city='Duluth' or city='London')
187              AND  discount in (select discount from customers
188                   where city='Duluth' or city='London');
189
190   -- 8
```
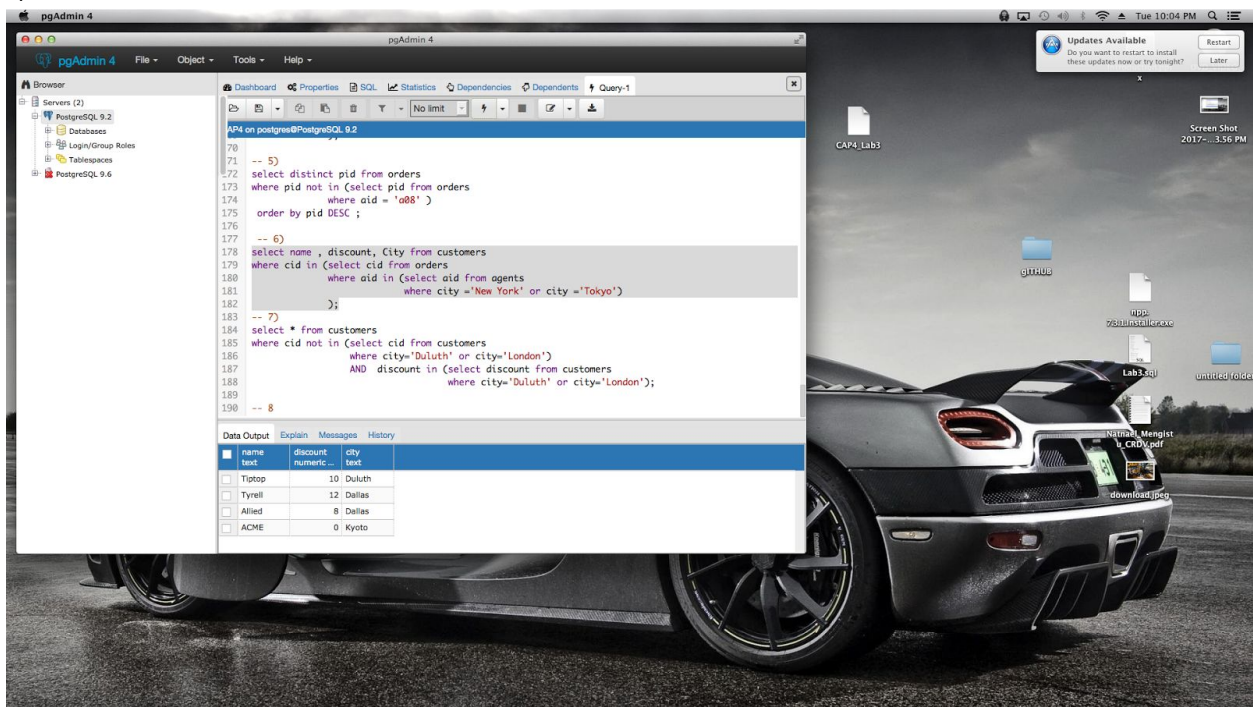
Data Output | Explain | Messages | History

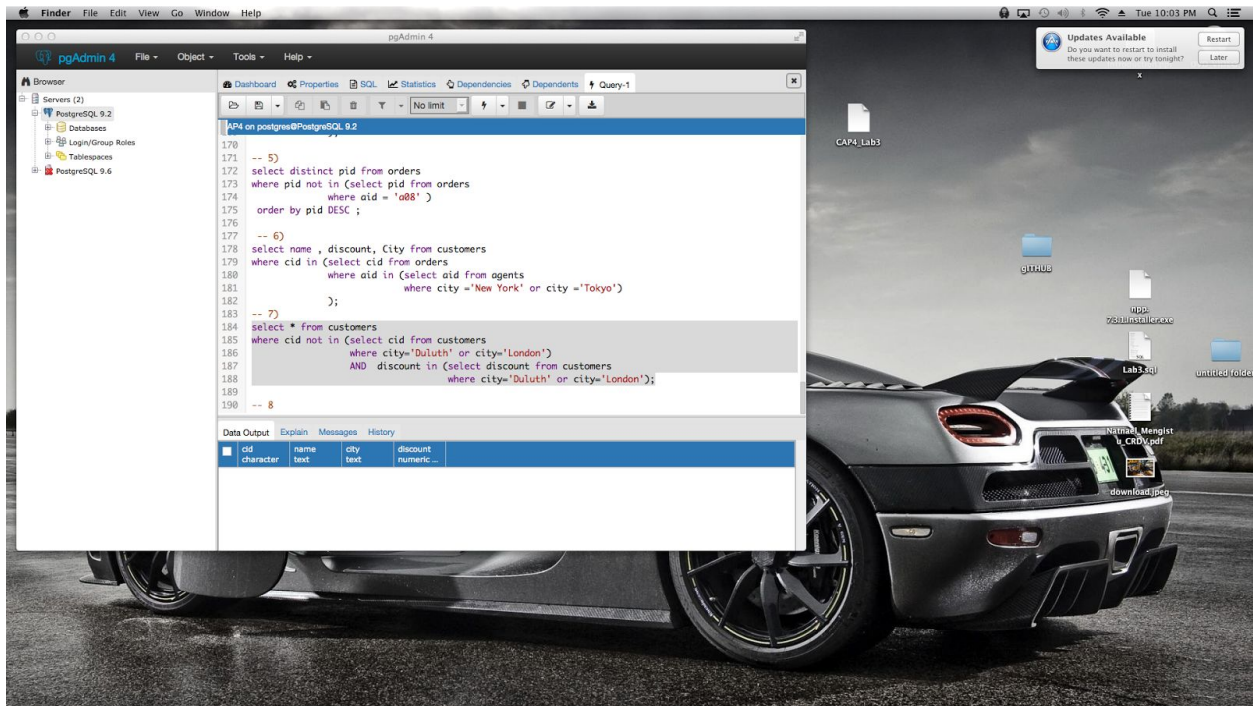| name text	discount numeric ...	city text
Tiptop	10	Duluth
Tyrell	12	Dallas
Allied	8	Dallas
ACME	0	Kyoto

8)

Check constraints are used to enforce domain integrity by limiting the value range that is accepted by the column(s).They use one or more boolean expressions to evaluate the specific conditions have been met.

 -They can be used to ensure the value stored in the column(s) meets a specific condition.

.

Example -

```
CREATE TABLE Customers
(
Cid int NOT NULL,
LastName varchar(255) NOT NULL,
Address varchar(255),
CHECK (Cid>0)
)
```

On the table we created we define that Cid is an integer by using check constraint.