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Lab 3

09/21/16

1.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including the 'public' schema. The main pane shows a SQL query in the 'Query-1' editor:

```
-- 1. List the order number and total dollars of all orders.
SELECT ordnum, totalUSD
FROM orders;
```

The 'Data Output' tab is selected, showing the results of the query in a table with two columns: 'ordnum' (integer) and 'totalUSD' (numeric). The results are as follows:

ordnum	totalUSD
1011	450
1013	880
1015	1104
1016	500
1017	540
1018	540
1019	380
1020	600
1021	460
1022	720
1023	450
1024	400
1025	720

2.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including the 'public' schema. The main pane shows a SQL query in the 'Query-1' editor:

```
-- 2. List the name and city of agents named Smith.
SELECT name, city
FROM agents
WHERE name = "Smith";
```

The 'Data Output' tab is selected, showing the results of the query in a table with two columns: 'name' (text) and 'city' (text). The results are as follows:

name	city
Smith	New York
Smith	Dallas

3.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including the 'public' schema. The main window shows a SQL query in the 'Query' tab:

```
-- 3. List the id, name, and priceUSD of products with quantity more than 201,000.
SELECT pid, name, priceUSD
FROM products
WHERE quantity > 201000;
```

The 'Data Output' tab shows the results of the query:

pid	name	priceUSD
p02	brush	0.5
p05	pencil	1

4.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure, including the 'public' schema. The main window shows a SQL query in the 'Query' tab:

```
-- 4. List the names and cities of customers in Duluth.
SELECT name, city
FROM customers
WHERE city = 'Duluth';
```

The 'Data Output' tab shows the results of the query:

name	city
Tiptop	Duluth
ACHE	Duluth

5.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure for 'PostgreSQL 9.6', including 'Databases (2)', 'CAP3', 'postgres', and 'public' schema. The main pane shows a SQL query in the 'Query-1' tab:

```

23 FROM customers
24 WHERE city = 'Duluth';
25
26 -- 5. List the names of agents not in New York and not in Duluth.
27
28 SELECT name, city
29 FROM agents
30 WHERE city NOT IN('New York', 'Duluth');
31

```

The 'Data Output' tab shows the results of the query:

name	city
Jones	Newark
Perry	Tokyo
Smith	Dallas
Bond	London

6.

The screenshot shows the pgAdmin 4 interface. The left sidebar displays the database structure for 'PostgreSQL 9.6', including 'Databases (2)', 'CAP3', 'postgres', and 'public' schema. The main pane shows a SQL query in the 'Query-2' tab:

```

32 -- 6. List all data for products in neither Dallas nor Duluth that cost US$1 or more.
33
34 SELECT *
35 FROM products
36 WHERE city NOT IN('Dallas', 'Duluth')
37 AND priceUSD >= 1.00;
38

```

The 'Data Output' tab shows the results of the query:

pid	name	city	quantity	priceusd
p07	case	Newark	100000	1
p08	eraser	Newark	200600	1.25

7.

The screenshot shows the pgAdmin 4 interface. On the left, the 'Browser' pane displays the database structure for 'PostgreSQL 9.6', including 'Databases (2)', 'CAP3', 'postgres', 'Catalogs', 'Event Triggers', 'Extensions', 'Foreign Data Wrappers', 'Languages', 'Schemas (1)', and 'public'. The 'public' schema is expanded, showing various objects like 'Collations', 'Domains', 'FTS Configural', 'FTS Dictionary', 'FTS Parsers', 'FTS Templates', 'Foreign Tables', 'Functions', 'Materialized VI', 'Sequences', 'Tables', 'Trigger Functi', 'Types', and 'Views'.

The main pane shows a SQL query editor with the following text:

```
-- 7. List all data for orders in February or March.

SELECT*
FROM orders
WHERE mon IN('feb', 'mar');
```

Below the query editor, the 'Data Output' tab is selected, displaying a table with 8 columns: 'ordnum integer', 'mon character', 'cid character', 'aid character', 'pid character', 'qty integer', 'totalusd numeric ...', and an empty column. The table contains 8 rows of data:

ordnum integer	mon character	cid character	aid character	pid character	qty integer	totalusd numeric ...	
1017	feb	c001	a06	p03	600	540	
1018	feb	c001	a03	p04	600	540	
1019	feb	c001	a02	p02	400	180	
1020	feb	c006	a03	p07	600	600	
1021	feb	c004	a06	p01	1000	460	
1022	mar	c001	a05	p06	400	720	
1023	mar	c001	a04	p05	500	450	
1024	mar	c006	a06	p01	800	400	

8.

The screenshot shows the pgAdmin 4 interface. On the left, the 'Browser' pane displays the database structure for 'PostgreSQL 9.6', including 'Databases (2)', 'CAP3', 'postgres', 'Catalogs', 'Event Triggers', 'Extensions', 'Foreign Data Wrappers', 'Languages', 'Schemas (1)', and 'public'. The 'public' schema is expanded, showing various objects like 'Collations', 'Domains', 'FTS Configural', 'FTS Dictionary', 'FTS Parsers', 'FTS Templates', 'Foreign Tables', 'Functions', 'Materialized VI', 'Sequences', 'Tables', 'Trigger Functi', 'Types', and 'Views'.

The main pane shows a SQL query editor with the following text:

```
-- 8. List all data for orders in February of $5000 or more.

SELECT*
FROM orders
WHERE mon IN('feb')
AND totalusd > 600;
```

Below the query editor, the 'Data Output' tab is selected, displaying a table with 8 columns: 'ordnum integer', 'mon character', 'cid character', 'aid character', 'pid character', 'qty integer', 'totalusd numeric ...', and an empty column. The table is currently empty.

9.

pgAdmin 4

Dashboard Properties SQL Statistics Dependencies Dependents Query-1 Query-2 Query-3

postgres on postgres@PostgreSQL 9.6

History

Date	Query	Rows affected	Total Time	Message
Thu Sep 22 2016 00:32:34 GMT-0400 (EDT)	SELECT* FROM orders WHERE cid = 'C005';		0 140 msec	

```

50 AND totalusd > 600;
51
52 -- 9. List all orders from the customer whose cid is C005.
53
54 SELECT*
55 FROM orders
56 WHERE cid = 'C005';
57

```

Data Output Explain Messages

ordnum	mon	cid	aid	pid	qty	totalusd
integer	character	character	character	character	integer	numeric...

Total query runtime: 140 msec.
0 rows retrieved.