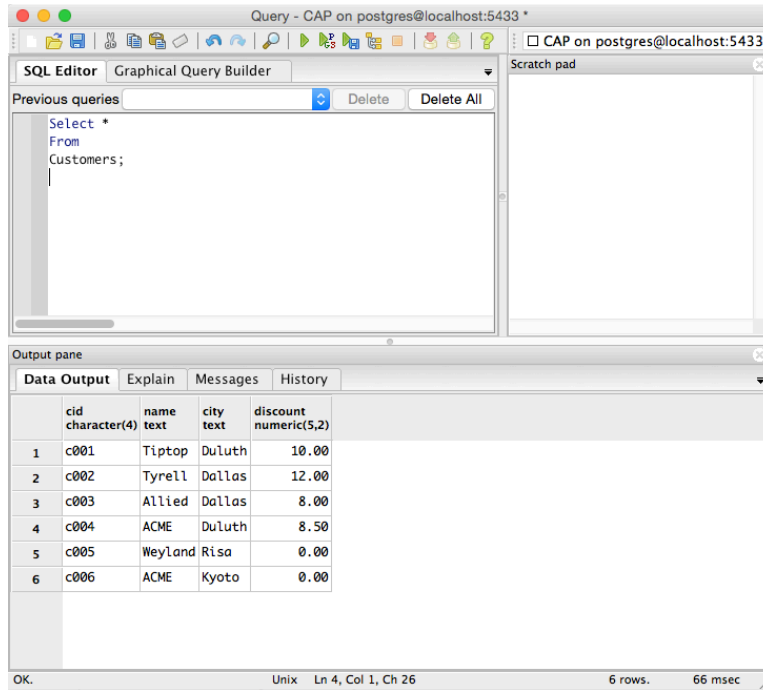


1.)

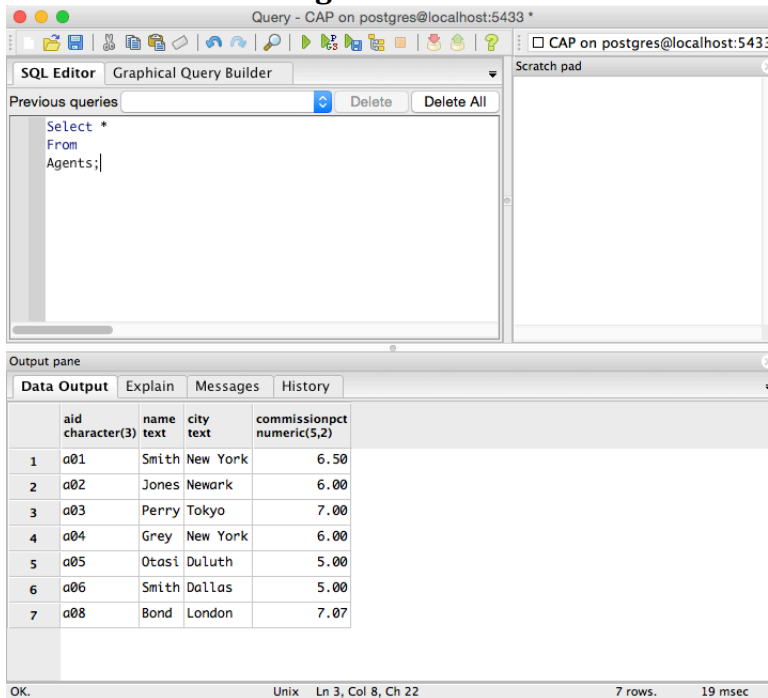
Customers



The screenshot shows a SQL Editor window titled "Query - CAP on postgres@localhost:5433 *". The "SQL Editor" tab is active, displaying the query: `Select *
From
Customers;`. The "Output pane" at the bottom shows the "Data Output" tab with a table of 6 rows. The status bar at the bottom indicates "OK.", "Unix", "Ln 4, Col 1, Ch 26", "6 rows.", and "66 msec".

	cid character(4)	name text	city text	discount numeric(5,2)
1	c001	Tiptop	Duluth	10.00
2	c002	Tyrell	Dallas	12.00
3	c003	Allied	Dallas	8.00
4	c004	ACME	Duluth	8.50
5	c005	Weyland	Risa	0.00
6	c006	ACME	Kyoto	0.00

Agents



The screenshot shows a SQL Editor window titled "Query - CAP on postgres@localhost:5433 *". The "SQL Editor" tab is active, displaying the query: `Select *
From
Agents;`. The "Output pane" at the bottom shows the "Data Output" tab with a table of 7 rows. The status bar at the bottom indicates "OK.", "Unix", "Ln 3, Col 8, Ch 22", "7 rows.", and "19 msec".

	aid character(3)	name text	city text	commissionpct numeric(5,2)
1	a01	Smith	New York	6.50
2	a02	Jones	Newark	6.00
3	a03	Perry	Tokyo	7.00
4	a04	Grey	New York	6.00
5	a05	Otasi	Duluth	5.00
6	a06	Smith	Dallas	5.00
7	a08	Bond	London	7.07

Products

Query - CAP on postgres@localhost:5433 *

SQL Editor Graphical Query Builder

Previous queries

```
Select *  
From  
Products;
```

Scratch pad

Output pane

Data Output Explain Messages History

	pid character(3)	name text	city text	quantity integer	priceusd numeric(10,2)
1	p01	comb	Dallas	111400	0.50
2	p02	brush	Newark	203000	0.50
3	p03	razor	Duluth	150600	1.00
4	p04	pen	Duluth	125300	1.00
5	p05	pencil	Dallas	221400	1.00
6	p06	trapper	Dallas	123100	2.00
7	p07	case	Newark	100500	1.00
8	p08	eraser	Newark	200600	1.25

OK. Unix Ln 3, Col 10, Ch 24 8 rows. 12 msec

Orders

Query - CAP on postgres@localhost:5433 *

SQL Editor Graphical Query Builder

Previous queries

```
Select *  
From  
Orders;
```

Scratch pad

Output pane

Data Output Explain Messages History

	ordnumber integer	month character(3)	cid character(4)	aid character(3)	pid character(3)	qty integer	totalusd numeric(12,2)
1	1011	Jan	c001	a01	p01	1000	450.00
2	1012	Jan	c002	a03	p03	1000	880.00
3	1015	Jan	c003	a03	p05	1200	1104.00
4	1016	Jan	c006	a01	p01	1000	500.00
5	1017	Feb	c001	a06	p03	600	540.00
6	1018	Feb	c001	a03	p04	600	540.00
7	1019	Feb	c001	a02	p02	400	180.00
8	1020	Feb	c006	a03	p07	600	600.00
9	1021	Feb	c004	a06	p01	1000	460.00

OK. Unix Ln 3, Col 7, Ch 21 14 rows. 18 msec

2.) Primary keys are candidate keys in which are chosen to be the unique identifier. No key attribute in the primary key can contain a null value. A foreign key is a field or a combination of fields of one table whose values are required to match those of the primary key of another table. It represents a reference to the record occurrence containing the matching primary key value. A superkey is any key that uniquely identifies each row. It functionally determines every attribute in the row.

3.) Data types are selections that are usually dictated by nature of data and by intended use. It defines the domain of the columns in the table and serves as a way of keeping each column unique in its characteristic. They are used in order to have each field represent its own unique value in the table. Some examples of data types are number, integer, varchar, date, time, timestamp, and double.

Battlefield Database

A	B	C
Field	Type	Null
playernum	integer	No
rank	integer	No
k/d ratio	integer	No
hometown	varchar	No
level	integer	No

4a.) First Normal Form is when a table contains no repeating groups and each primary key is identified. All nulls must be eliminated and each repeating group attribute should contain appropriate data value.

4b.) Second Normal Form is when new tables must be created in order to eliminate partial dependencies. Each component should become a key in a separate table. It is also important to determine attributes that are dependent in the partial dependencies.

4c.) Third Normal Form is when new tables must be created in order to eliminate transitive dependencies. All attribute's value should determine other values within a row. All table should be named to display its content and functions.