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Lab 2

Customers

AP on postgres@PostgreSQL 9.6

```
1 select *
2 from Customers;
```

Data Output Explain Messages History

	cid character	name text	city text	discount numeric ...
<input type="checkbox"/>	c001	Tiptop	Duluth	10
<input type="checkbox"/>	c002	Tyrell	Dallas	12
<input type="checkbox"/>	c003	Allied	Dallas	8
<input type="checkbox"/>	c004	ACME	Duluth	8.5
<input type="checkbox"/>	c005	Weyland	Risa	0
<input type="checkbox"/>	c006	ACME	Kyoto	0

Agents

AP on postgres@PostgreSQL 9.6

```
1 select *
2 from Agents;
```

Data Output Explain Messages History

	aid character	name text	city text	commissi... numeric ...
<input type="checkbox"/>	a01	Smith	New York	6.5
<input type="checkbox"/>	a02	Jones	Newark	6
<input type="checkbox"/>	a03	Perry	Tokyo	7
<input type="checkbox"/>	a04	Grey	New York	6
<input type="checkbox"/>	a05	Otasi	Duluth	5
<input type="checkbox"/>	a06	Smith	Dallas	5
<input type="checkbox"/>	a08	Bond	London	7.07

Products

```
1 select *
2 from Products;
```

Data Output Explain Messages History

	pid character	name text	city text	quantity integer	priceusd numeric ...
<input type="checkbox"/>	p01	comb	Dallas	111400	0.5
<input type="checkbox"/>	p02	brush	Newark	203000	0.5
<input type="checkbox"/>	p03	razor	Duluth	150600	1
<input type="checkbox"/>	p04	pen	Duluth	125300	1
<input type="checkbox"/>	p05	pencil	Dallas	221400	1
<input type="checkbox"/>	p06	trapper	Dallas	123100	2
<input type="checkbox"/>	p07	case	Newark	100500	1
<input type="checkbox"/>	p08	eraser	Newark	200600	1.25

Orders

```
1 select *
2 from Orders;
```

Data Output Explain Messages History

	ordnumber integer	month character	cid character	aid character	pid character	qty integer	totalusd numeric ...
<input type="checkbox"/>	1011	Jan	c001	a01	p01	1000	450
<input type="checkbox"/>	1012	Jan	c002	a03	p03	1000	880
<input type="checkbox"/>	1015	Jan	c003	a03	p05	1200	1104
<input type="checkbox"/>	1016	Jan	c006	a01	p01	1000	500
<input type="checkbox"/>	1017	Feb	c001	a06	p03	600	540
<input type="checkbox"/>	1018	Feb	c001	a03	p04	600	540
<input type="checkbox"/>	1019	Feb	c001	a02	p02	400	180
<input type="checkbox"/>	1020	Feb	c006	a03	p07	600	600
<input type="checkbox"/>	1021	Feb	c004	a06	p01	1000	460
<input type="checkbox"/>	1022	Mar	c001	a05	p06	400	720
<input type="checkbox"/>	1023	Mar	c001	a04	p05	500	450
<input type="checkbox"/>	1024	Mar	c006	a06	p01	800	400
<input type="checkbox"/>	1025	Apr	c001	a05	p07	800	720
<input type="checkbox"/>	1026	May	c002	a05	p03	800	744

2. A primary key is a column in the table that is used to identify a unique record in that table. It is used to sort and organize a table so each record can be found easily. Superkeys and candidate keys are similar to primary keys in which they help identify certain information by using uniqueness but superkeys can be 1 column or a column set containing multiple columns. Candidate keys are superkeys but a candidate key is the the superkey with the least requirements to be a superkey. For example, a superkey could be 4 columns or 2 columns. The candidate key would be the 2 column superkey because it is the minimal one.

3. Data types are the classes of input that a developer calls when making fields for input. For example, making a field an INT value means only integer values can be input there. Another example is making a field BOOLEAN, means only a true or false output can be determined by that field. If we were to make a table for Weather in popular cities there would be many different data types used. The table name would be Weather. Columns in the table would be: City Name, Zip Code, Temperature, Weather Condition. For City Name and Weather Condition it would be a CHAR because cities and weather conditions only contain letter values. For zip code it would be an INT data type because it can only be 5 numbers. Lastly, for temperature it would be a VARCHAR data type because it contains a number for temperature but also either F or C to declare which system it is being measure in.

4.

1NF: There is a table that holds data. This table needs to have a primary and each column must be unique. Also, the columns must contain atomic values and there are no reputation in the groups of columns.

Access Rows by Content Only: This is referring to you can't say "It's the 4th row down from the top" You can only reference rows by an ID to make sure the information being referenced is clear and concise.

All rows must be unique: Every row must be unique to make a table functional and logical. If there are 2 rows with everything the same it's a duplicate and can make things very complicated. There are cases where there is information in rows that are the same but usually the ID that reference that row are different making it unique.