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Lab 2

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Customers Table:

cid character	name text	city text	discount numeric ...
c001	Tiptop	Duluth	10
c002	Tyrell	Dallas	12
c003	Allied	Dallas	8
c004	ACME	Duluth	8.5
c005	Weyland	Risa	0
c006	ACME	Kyoto	0

Agents Table:

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

Products Table:

Data Output | Explain | Messages | History

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

Orders table:

ordnumb... integer	month character	cid character	aid character	pid character	qty integer	totalusd numeric ...
1011	Jan	c001	a01	p01	1000	450
1012	Jan	c002	a03	p03	1000	880
1015	Jan	c003	a03	p05	1200	1104
1016	Jan	c006	a01	p01	1000	500
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
1025	Apr	c001	a05	p07	800	720
1026	May	c002	a05	p03	800	744

Definitions of keys:

Primary Keys: A table Column that uniquely identifies all table records.

Candid Keys: A column that uniquely identifies any database record without referring to any other data.

Superkey: A combination of columns and rows that has unique values.

3.

My Database for the Software I mentioned in my last Lab, The Specialist, would need a very special database. The Dyslexic user would have their common difficulties compared to common forms of dyslexia. We would want to give them the ability to track their growth; To do this we could store their reading speed in words per minute as an integer. We would have Booleans to compare their problems that we are realizing and they are communicating to the system to the common forms of dyslexia, a non-nullable value. Also, I would need to track the person's average time answering questions after a reading as a Double. I would need to keep track of every letter as chars to then make random letter generators to make word searches.

4.

The rule "first normal form" exists so that all values can be documented into some form of data that can further be transformed into information.

The "Access rows by content only" rule exists because on my computer the columns may appear in one order but they may appear in a different order on someone else's.

And finally, the “All Rows must be unique.” This rules exists so that there are no to values in the same column that repeat so everything can be shown in the most condensed version possible.