

Ryan deMayo
1/30/17
Lab 2

Customers:

Data Output Explain Messages History					
<input type="checkbox"/>	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:

Data Output Explain Messages History					
<input type="checkbox"/>	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:

Data Output Explain Messages History						
<input type="checkbox"/>	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:

Data Output Explain Messages History							
<input type="checkbox"/>	ordnumb... 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)

Primary key: a database column that uniquely identifies all records in the table

Superkey: a combination of columns that uniquely identifies any row within a relational database.

Candidate key: a column, or set of columns, in a table that can uniquely identify any database record without referring to any other data

3) Musical scales: In each scale, certain notes are played while others are not, so in one scale, F sharp may be played, but not in another. The table would be named guitar scales, and the columns would be; notes, played and step. For data types, the notes would be strings and not nullable, played would be a boolean and nullable, and step would be a string and not nullable.

4) The first normal form rule: The data must be in a database table. The table stores information in rows and columns and must have a primary key to uniquely identify each row. Each row also cannot have repeating groups. This rule makes sure you have a relational database and a way to easily access the data.

The access rows by content only rule: Data may be displayed differently on different machines, so referring to it by other means is necessary to ensure that you are consistent for all users.

All rows must be unique: It guarantees row accessibility and prevents confusion in the database.