

Name: _____

QUIZ 17 - ICS 321 Fall 2017

1. Who do you plan on working on your project with and what will their tentative roles be?

Name (can be tentative or placeholder)	Main role in group or project

Now, changing the subject, let's say you run a pizza shop and you have a special where customers can get no more than three toppings, and only one of each type:

- one type of cheese
- one type of meat
- one type of vegetable

<u>Pizza</u>	<u>Type</u>	Topping
1	cheese	mozzarella
1	meat	pepperoni
1	vegetable	olives
2	meat	mozzarella*
2	cheese	sausage *
2	vegetable	peppers

Toppings can only be of one type. So, in comes orders for the first two pizzas and they are stored in a table as shown.

2. How does the relvar keep an anomaly of a pizza containing more than one topping type from occurring?
3. What anomaly *is* shown occurring with the relvar?
4. Restructure the relvar into smaller relvars to keep that anomaly from occurring also (i.e., preventing both types of anomalies). Make sure you underline all the primary keys.