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CIS 412 – week 7 assignment

#1. RepName is the column that creates the de-normalization from third-form. The reason being is that it is redundant data that would be repeated. RepNum alone would suffice to determine which representative was assigned to this customer. This means that RepName depends on RepNum and could repeat for customers who have the same RepNum. This puts the table in first normal form because the representative info should be stored in it’s own table with the RepNum being assigned to the customer.

#2.

Communication time = 2.5 + ( ( 20 \* 1,000 ) / 50,000 )

= 2.5 + ( 20,000 / 50, 000 )

= 2.5 + 0.4

= 2.9 seconds (3 if using ceil or round math methods)