**UMGC Data 620 Assignment 5.2**

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1. Display the product name, product number, order number, and the order state for all the orders for which the OrderTbl state is Colorado. Sort it ascending by product name. Don’t group it by anything. Write a sentence: how many records do you have, and do you have any duplicate product names? Why might this be?

Answer: There are eight records returned by the script. There are duplicate product names likely due to the script not programmed to return distinct.

**TURN IN:** a screen shot of your results (paste it below); your SQL code for this goes under “Problem 1” in the template.

A screenshot of a computer

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1. Write a new query. Display only the product name, product number, and the order state for all the orders for which the OrderTbl state is Colorado. Do \*not\* use the Group By command. Make it print only unique (distinct) product names. Sort it ascending by product name. Write a sentence: how many records do you have, and do you have any duplicate product names? Why might this be? What is the difference between this and the query you did first? (Hint: look up SELECT DISTINCT)

Answer: The query returned six records and there are no duplicate product names. There are no duplicate records because of the DISTINCT clause that caused the query to return only unique rows. The difference between this and the query we did before is the use of SELECT DISTINCT in this query which returned unique records.

**TURN IN:** a screen shot of your results (paste it below); your SQL code for this goes under “Problem 2” in the template.

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1. For each employee with a commission less than 0.04, compute the number of orders taken. The result should include the employee number, employee last name, employee commission rate, and the total number of orders taken by that employee. Assume each distinct OrdNo in the OrderTbl counts as one distinct order. Each employee should be displayed only once; for example, if employee Mickey Mouse took five orders, there should be one line displaying his name, not five.

**TURN IN:** a screen shot of your results (paste it below); your SQL code for this goes under “Problem 3” in the template.

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