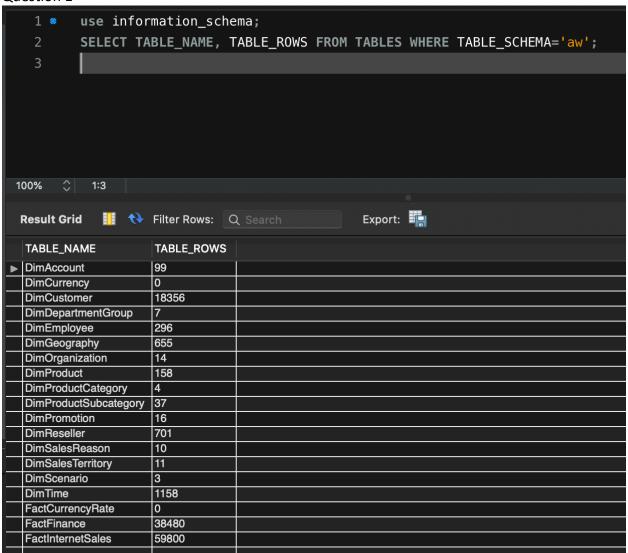
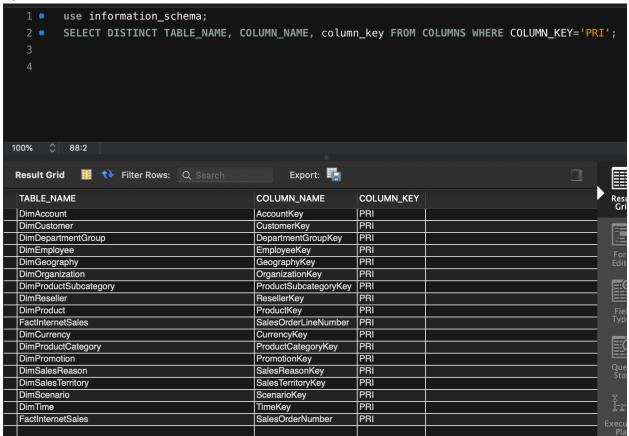
Assignment #5 CSCI 3287 Brandon Glandt 4/5/2020

1) Question 1



2) Question 2



3) Question 3

The standard table naming convention that the AdventureWorksDW database designers use to differentiate dimension tables from fact tables in this star schema data warehouse are when they use dimension tables they start the name of the table with Dim and when they use fact tables they start the name of the table with Fact.

4) Question 4

I think the purpose of the recursive relationship on DimEmployee is because the primary key in that table is EmployeeKey and there are two multiples rows as well which are ParentEmployeeKey and SalesTerritoryKey. The two multiples of rows are the reason DimEmployee is recursive.

5) Question 5

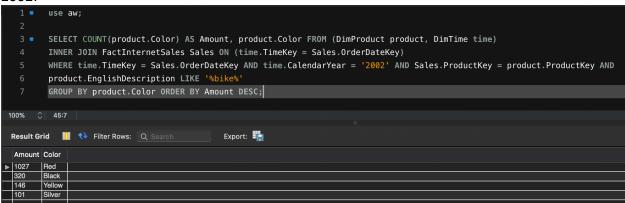
The three types of models of bikes sold by AdventureWorks are Road, Mountain and Sport.

6) Question 6

2001:

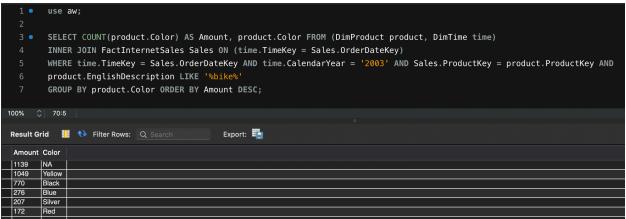
The most popular color in 2001 was red.

2002:



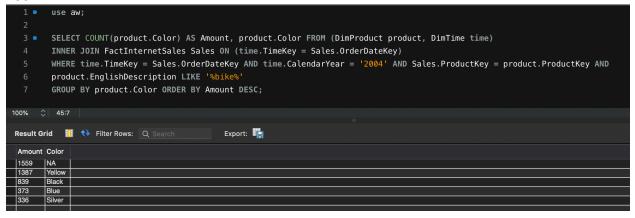
The most popular color in 2002 was red.

2003:



The most popular color in 2003 was yellow.

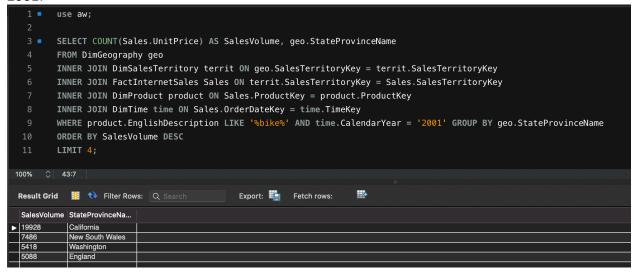
2004:



The most popular color in 2004 was yellow.

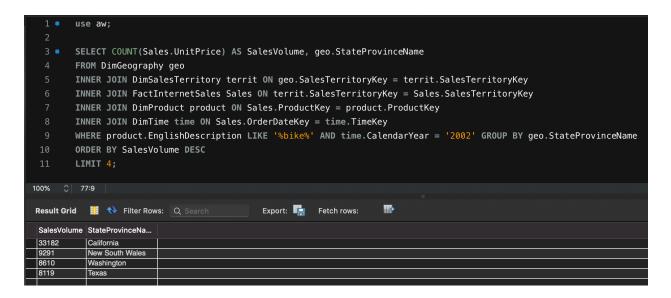
7) Question 7

2001:



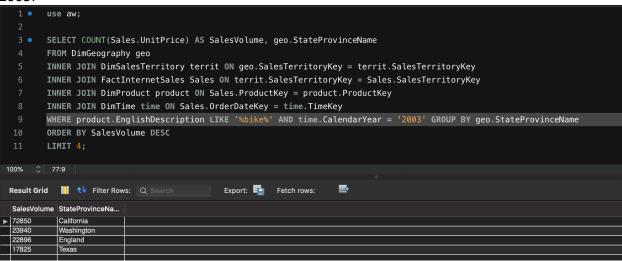
The top four that showed the highest sales volume for 2001 are California, NSW, Washington and England.

2002:



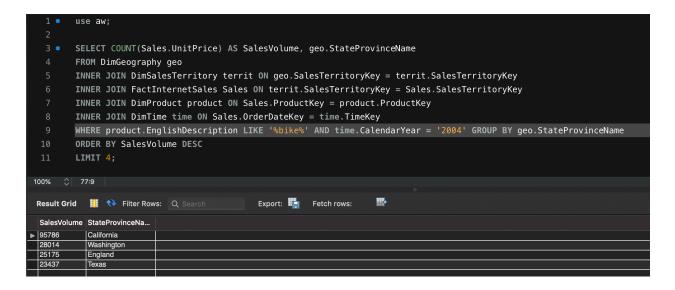
The top four that showed the highest sales volume for 2002 are California, NSW, Washington and Texas.

2003:



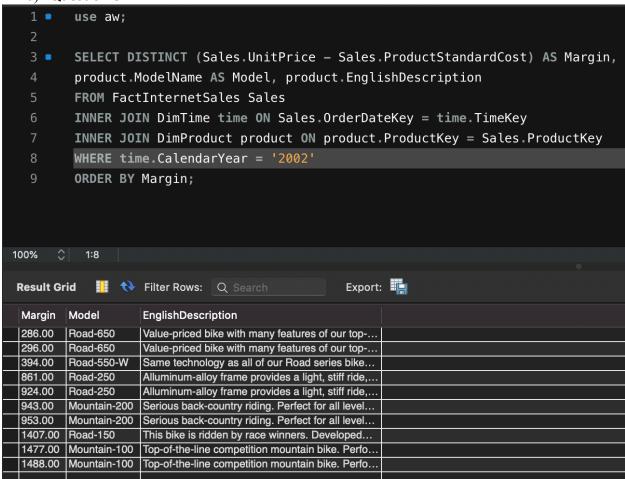
The top four that showed the highest sales volume for 2003 are California, Washington, England and Texas.

2004:



The top four that showed the highest sales volume for 2004 are California, Washington, England and Texas.

8) Question 8



The model of bike that yielded the highest margin for AdventureWorks is at margin 1488 as the model Mountain-100.