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BADM 3802

Daugherty

Billing and Sales Analysis for Wellington Global Marketplace

This is my first project that I coded in SAS. I coded this as an assignment for a class called Data and Text Mining; taught at the University of Connecticut. I was instructed to create two tables consisting of the sum of sales and the billing amount from the fifty products sold within the 51 states that were observed, including the District of Columbia respectively. The observations from these tables were extracted from collected data of the Wellington Global Marketplace. When recently collected data shows a lower amount of billing and sales than predicted, research is done within the company to determine appropriate protocol. As such, my professor instructed the class and I to compute the billing amount of each sale per state in USD, the billing amount of all sales per state in USD and the total quantity of sales per state. These calculations will allow an analyzer to investigate the success of the state. For example, if one particular state had a low quantity of sales and a low sum of billing, these calculations would determine which states had these numbers. Once the states had been identified, business strategies would be developed to increase the number of sales and amount of billing within that state.

Below is the link to the bar graphs and heat maps generated in Tableau after merging the calculated data from a Wellington Global Marketplace inventory spreadsheet with discount and tax rates factored in using SQL and SAS: https://tinyurl.com/3vvmw9w9

*Before analyzing the code below; one important formula to be cognizant of is that the billing amount was calculated by:

The UNIVARIATE Procedure Variable: Total_Sum_by_State_ID

Moments

N	51	Sum Weights	51
Mean	3804.98039	Sum Observations	194054
Std Deviation	2132.28031	Variance	4546619.34
Skewness	0.91510092	Kurtosis	0.64476002
Uncorrected SS	965702632	Corrected SS	227330967
Coeff Variation	56.0391932	Std Error Mean	298.578966

Basic Statistical Measures

Loc	cation	Variabil	ity
Mean	3804.980	Std Deviation	2132
Media n	3757.000	Variance	4546619
Mode	2938.000	Range	8804
		Interquartile Range	3038

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	t	12.74363	Pr > t	<.000 1
Sign	M	25.5	Pr >= M	<.000 1
Signed Rank	S	663	Pr >= S	<.000

Quantiles (Definition 5)

Level	Quantile
100% Max	9692
99%	9692
95%	7857

Quantiles (Definition 5)

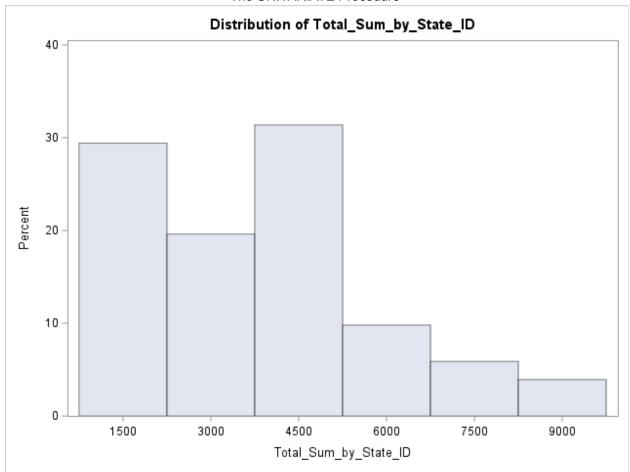
Level	Quantile
90%	6600
75% Q3	5048
50% Median	3757
25% Q1	2010
10%	1835
5%	931
1%	888
0% Min	888

Extreme Observations

Lowest		High	est
Value	Obs	Value	Obs
888	43	6874	47
914	35	7722	19
931	41	7857	40
960	3	9573	14
1043	29	9692	22

The SAS System

The UNIVARIATE Procedure



0.91510092

The SAS System

The UNIVARIATE Procedure Variable: TotalBilling_BY_StateID

Moments

N	51	Sum Weights	51
Mean	522549.112	Sum Observations	26650004.7
Std Deviation	303710.703	Variance	9.22402E10
Skewness	1.18170164	Kurtosis	1.42393311
Uncorrected SS	1.85379E13	Corrected SS	4.61201E12

Moments

Coeff Variation 58.1209872 Std Error Mean 42528.0049

Basic Statistical Measures

Loc	cation	Variab	oility
Mean	522549.1	Std Deviation	303711
Media n	459393.4	Variance	9.22402E10
Mode		Range	1370061
		Interquartile Range	329022

Tests for Location: Mu0=0

Test	Statistic		p Value	
Student's t	t	12.28718	Pr > t	<.000 1
Sign	M	25.5	Pr >= M	<.000 1
Signed Rank	S	663	Pr >= S	<.000 1

Quantiles (Definition 5)

Level	Quantile
100% Max	1484000
99%	1484000
95%	1167316
90%	909599
75% Q3	626282
50% Median	459393
25% Q1	297260
10%	201063
5%	127589

Quantiles (Definition 5)

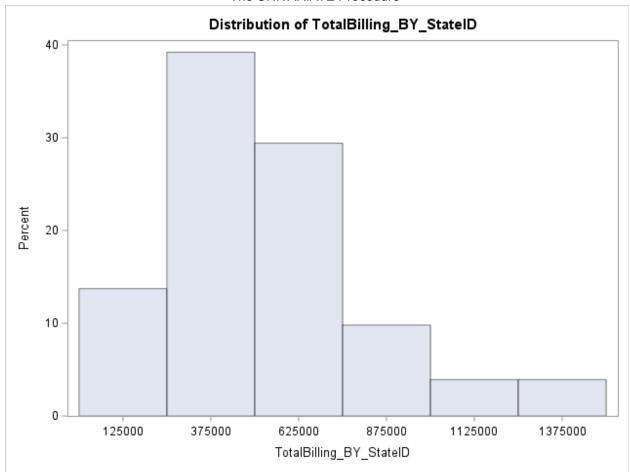
Level	Quantile
1%	113939
0% Min	113939

Extreme Observations

Lowest		Highest	
Value	Obs	Value	Obs
113939	35	921669	28
126712	43	1124831	19
127589	41	1167316	22
143653	29	1283009	40
166028	20	1484000	14

The SAS System

The UNIVARIATE Procedure



1.18170164

The SAS System

The REG Procedure Model: MODEL1

Dependent Variable: Total_Sum_by_State_ID

Number of Observations 51

Read

Number of Observations Used 51

Analysis of Variance

Source	D F	Sum of Squares	Mean Square	F Value	Pr > F	
Model	1	215817113	215817113	918.46	<.000 1	
Error	49	11513854	234977			
Corrected Total	50	227330967				

 Root MSE
 484.74387
 R-Square
 0.9494

 Dependent Mean
 3804.98039
 Adj R-Sq
 0.9483

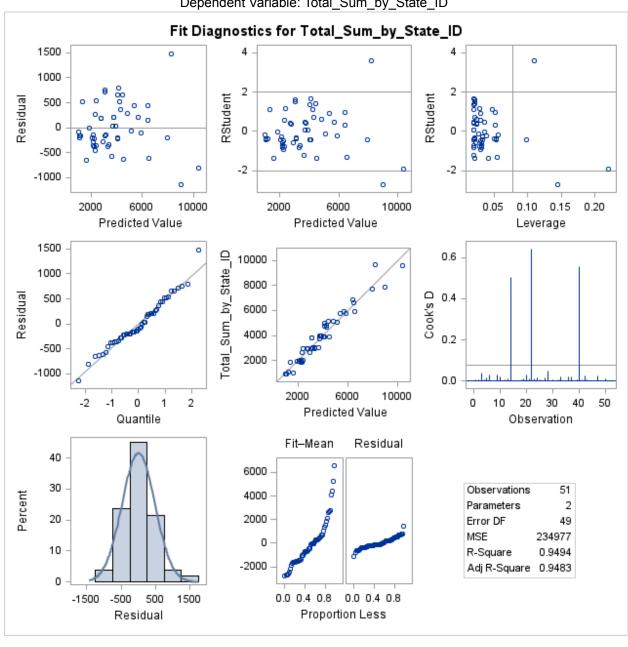
Coeff Var 12.73972

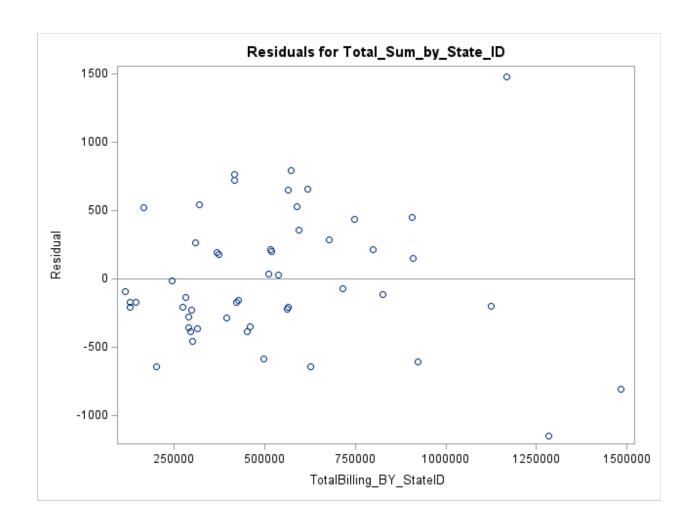
Parameter Estimates

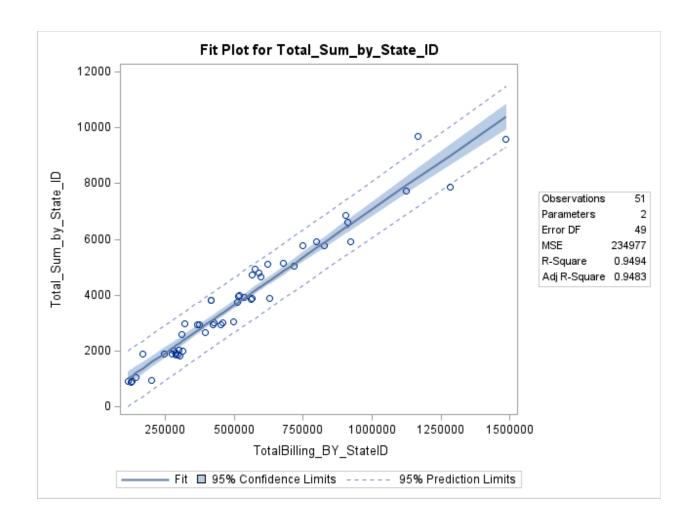
Variable	D F	Parameter Estimate			Pr > t
Intercept	1	230.40094	136.08584	1.69	0.0968
TotalBilling_BY_StateID	1	0.00684	0.00022572	30.31	<.0001

The SAS System

The REG Procedure Model: MODEL1 Dependent Variable: Total_Sum_by_State_ID







```
proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington Global
Marketplace.xlsx'
  out = Products
  dbms = xlsx
  replace
  ;
  sheet = "Products";
  run;

proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global Marketplace.xlsx'
  out = Customers
```

dbms = xlsx

```
replace
  sheet = "Customers";
 run;
  proc import datafile = "\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global Marketplace.xlsx'
 out = Sales_Tax_By_State
 dbms = xlsx
  replace
  sheet = "Sales_Tax_By_State";
 run;
  proc import datafile = "\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global Marketplace.xlsx'
 out = Sales_2014
 dbms = xlsx
  replace
  sheet = "Sales_2014";
 run;
  proc import datafile = "\msfs-03.grove.ad.uconn.edu\home\stq19003\Desktop\Wellington
Global Marketplace.xlsx'
 out = Departments
 dbms = xlsx
  replace
  sheet = "Departments";
 run;
  proc import datafile = "\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global Marketplace.xlsx'
 out = Employee_Master
 dbms = xlsx
  replace
  sheet = "Employee_Master";
 run;
proc sql;
 create table Work.DStates as
Select A.STID, A.State, A.State_CD, A.State_Tax_Rate,
```

```
B.Customer_Name,B.Cust_ID, B.State
 From Work.Sales_tax_by_state A
Join Work.Customers B
 On A.STID = B.State
quit;
proc sql;
create table Work.DProducts as
Select A.sale id, A.product id, A.date, A.discount, A.Quantity, A.Customer ID,
B.ProdName, B.Costln, B.PriceOut, B.eff, B.exp, B.prodID
From Work.Sales_2014 A
Join Work.Products B
On B.prodID = A.product_id
And A.date >= B.eff
And A.date <= B.exp
quit;
proc sql;
create table Work.CALL as
Select A.STID, A.State, A.State_CD, A.State_Tax_Rate, A.Customer_Name, A.Cust_ID, A.State,
B.sale id, B.product id, B.date, B.discount, B.Quantity, B.Customer ID,
B.ProdName, B.Costln, B.PriceOut, B.eff, B.exp, B.prodID
From Work.DStates A
Join Work.DProducts B
On A.Cust_ID = B.Customer_ID
quit;
Proc sql;
create table DoltForState_In_Alabama as
SELECT *
```

```
From Work.CALL
Where STID = 1;
quit;
Proc sql;
create table DoltForState_In_Alaska as
SELECT *
From Work.CALL
Where STID = 2;
Quit;
Proc sql;
create table DoltForState_In_Arizona as
SELECT *
From Work.CALL
Where STID = 3;
quit;
Proc sql;
create table DoltForState_In_Arkansas as
SELECT *
From Work.CALL
Where STID = 4;
Quit;
```

```
Proc sql;
create table DoltForState_In_California as
SELECT *
From Work.CALL
Where STID = 5;
quit;
Proc sql;
create table DoltForState_In_Colorado as
SELECT *
From Work.CALL
Where STID = 6;
Quit;
Proc sql;
create table DoltForState_In_Connecticut as
SELECT *
From Work.CALL
Where STID = 7;
Quit;
Proc sql;
create table DoltForState_In_Delaware as
SELECT *
```

```
From Work.CALL
Where STID = 8;
Quit;
Proc sql;
create table DoltForState_In_Florida as
SELECT *
From Work.CALL
Where STID = 9;
Quit;
Proc sql;
create table DoltForState_In_Georgia as
SELECT *
From Work.CALL
Where STID = 10;
Quit;
Proc sql;
create table DoltForState_In_Hawaii as
SELECT *
From Work.CALL
Where STID = 11;
quit;
Proc sql;
```

```
create table DoltForState_In_Idaho as
SELECT *
From Work.CALL
Where STID = 12;
quit;
Proc sql;
create table DoltForState_In_Ilinois as
SELECT *
From Work.CALL
Where STID = 13;
Quit;
Proc sql;
create table DoltForState_In_Indiana as
SELECT *
From Work.CALL
Where STID = 14;
Quit;
Proc sql;
create table DoltForState_In_lowa as
SELECT *
From Work.CALL
Where STID = 15;
```

```
Quit;
Proc sql;
create table DoltForState_In_Kansas as
SELECT *
From Work.CALL
Where STID = 16;
quit;
Proc sql;
create table DoltForState_In_Kentucky as
SELECT *
From Work.CALL
Where STID = 17;
Quit;
Proc sql;
create table DoltForState_In_Louisiana as
SELECT *
From Work.CALL
Where STID = 18;
Quit;
Proc sql;
```

```
create table DoltForState_In_Maine as
SELECT *
From Work.CALL
Where STID = 19;
Quit;
Proc sql;
create table DoltForState_In_Maryland as
SELECT *
From Work.CALL
Where STID = 20;
Quit;
Proc sql;
create table DoltForState_In_Massachusetts as
SELECT *
From Work.CALL
Where STID = 21;
Quit;
Proc sql;
create table DoltForState_In_Michigan as
SELECT *
From Work.CALL
Where STID = 22;
```

```
Quit;
Proc sql;
create table DoltForState_In_Minnesota as
SELECT *
From Work.CALL
Where STID = 23;
Quit;
Proc sql;
create table DoltForState_In_Mississippi as
SELECT *
From Work.CALL
Where STID = 24;
Quit;
Proc sql;
create table DoltForState_In_Missouri as
SELECT *
From Work.CALL
Where STID = 25;
Quit;
Proc sql;
create table DoltForState_In_Montana as
SELECT *
```

```
From Work.CALL
Where STID = 26;
Quit;
Proc sql;
create table DoltForState_In_Nebraska as
SELECT *
From Work.CALL
Where STID = 27;
Quit;
Proc sql;
create table DoltForState_In_Nevada as
SELECT *
From Work.CALL
Where STID = 28;
Quit;
Proc sql;
create table DoltForState_In_New_Hampshire as
SELECT *
From Work.CALL
Where STID = 29;
Quit;
```

```
Proc sql;
create table DoltForState_In_New_Jersey as
SELECT *
From Work.CALL
Where STID = 30;
Quit;
Proc sql;
create table DoltForState_In_New_Mexico as
SELECT *
From Work.CALL
Where STID = 31;
Quit;
Proc sql;
create table DoltForState_In_New_York as
SELECT *
From Work.CALL
Where STID = 32;
Quit;
Proc sql;
create table DoltForState_In_North_Carolina as
SELECT *
From Work.CALL
```

```
Where STID = 33;
Quit;
Proc sql;
create table DoltForState_In_North_Dakota as
SELECT *
From Work.CALL
Where STID = 34;
Quit;
Proc sql;
create table DoltForState_In_Ohio as
SELECT *
From Work.CALL
Where STID = 35;
Quit;
Proc sql;
create table DoltForState_In_Oklahoma as
SELECT *
From Work.CALL
Where STID = 36;
Quit;
Proc sql;
create table DoltForState_In_Oregon as
```

```
SELECT *
From Work.CALL
Where STID = 37;
Quit;
Proc sql;
create table DoltForState_In_Pennsylvania as
SELECT *
From Work.CALL
Where STID = 38;
Quit;
Proc sql;
create table DoltForState_In_Rhode_Island as
SELECT *
From Work.CALL
Where STID = 39;
Quit;
Proc sql;
create table DoltForState_In_South_Carolina as
SELECT *
From Work.CALL
Where STID = 40;
Quit;
```

```
Proc sql;
create table DoltForState_In_South_Dakota as
SELECT *
From Work.CALL
Where STID = 41;
Quit;
Proc sql;
create table DoltForState_In_Tennessee as
SELECT *
From Work.CALL
Where STID = 42;
Quit;
Proc sql;
create table DoltForState_In_Texas as
SELECT *
From Work.CALL
Where STID = 43;
Quit;
Proc sql;
create table DoltForState_In_Utah as
SELECT *
```

```
From Work.CALL
Where STID = 44;
Quit;
Proc sql;
create table DoltForState_In_Vermont as
SELECT *
From Work.CALL
Where STID = 45;
Quit;
Proc sql;
create table DoltForState_In_Virginia as
SELECT *
From Work.CALL
Where STID = 46;
Quit;
Proc sql;
create table DoltForState_In_Washington as
SELECT *
From Work.CALL
Where STID = 47;
Quit;
Proc sql;
```

```
create table DoltForState_In_West_Virginia as
SELECT *
From Work.CALL
Where STID = 48;
Quit;
Proc sql;
create table DoltForState_In_Wisconsin as
SELECT *
From Work.CALL
Where STID = 49;
Quit;
Proc sql;
create table DoltForState_In_Wyoming as
SELECT *
From Work.CALL
Where STID = 50;
Quit;
Proc sql;
create table DoltForState_In_DC as
SELECT *
From Work.CALL
Where STID = 51;
```

```
quit;
Proc sql;
create table TotalSales_In_Alabama as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Alabama
quit;
Proc sql;
create table TotalSales_In_Alaska as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Alaska
Quit;
Proc sql;
create table TotalSales_In_Arizona as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Arizona
quit;
```

```
Proc sql;
create table TotalSales_In_Arkansas as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Arkansas
Quit;
Proc sql;
create table TotalSales_In_California as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_California
quit;
Proc sql;
create table TotalSales_In_Colorado as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Colorado
Quit;
Proc sql;
create table TotalSales_In_Connecticut as
SELECT sum(quantity) as Total_Sum_by_State_ID
```

```
From Work.DoltForState_In_Connecticut
Quit;
Proc sql;
create table TotalSales_In_Delaware as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Delaware
Quit;
Proc sql;
create table TotalSales_In_Florida as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Florida
Quit;
Proc sql;
create table TotalSales_In_Georgia as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Georgia
Quit;
Proc sql;
```

```
create table TotalSales_In_Hawaii as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Hawaii
quit;
Proc sql;
create table TotalSales_In_Idaho as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Idaho
quit;
Proc sql;
create table TotalSales_In_Ilinois as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Ilinois
Quit;
Proc sql;
create table TotalSales_In_Indiana as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Indiana
```

```
Quit;
Proc sql;
create table TotalSales_In_lowa as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_lowa
Quit;
Proc sql;
create table TotalSales_In_Kansas as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Kansas
quit;
Proc sql;
create table TotalSales_In_Kentucky as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Kentucky
Quit;
Proc sql;
```

```
create table TotalSales_In_Louisiana as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Louisiana
Quit;
Proc sql;
create table TotalSales_In_Maine as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Maine
Quit;
Proc sql;
create table TotalSales_In_Maryland as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Maryland
Quit;
Proc sql;
create table TotalSales_In_Massachusetts as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Massachusetts
```

```
Quit;
Proc sql;
create table TotalSales_In_Michigan as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Michigan
Quit;
Proc sql;
create table TotalSales_In_Minnesota as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Minnesota
Quit;
Proc sql;
create table TotalSales_In_Mississippi as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoItForState_In_Mississippi
Quit;
Proc sql;
create table TotalSales_In_Missouri as
```

```
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Missouri
Quit;
Proc sql;
create table TotalSales_In_Montana as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Montana
Quit;
Proc sql;
create table TotalSales_In_Nebraska as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Nebraska
Quit;
Proc sql;
create table TotalSales_In_Nevada as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Nevada
Quit;
```

```
Proc sql;
create table TotalSales_In_New_Hampshire as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_New_Hampshire
Quit;
Proc sql;
create table TotalSales_In_New_Jersey as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_New_Jersey
Quit;
Proc sql;
create table TotalSales_In_New_Mexico as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_New_Mexico
Quit;
Proc sql;
create table TotalSales_In_New_York as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_New_York
```

```
Quit;
Proc sql;
create table TotalSales_In_North_Carolina as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_North_Carolina
Quit;
Proc sql;
create table TotalSales_In_North_Dakota as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_North_Dakota
Quit;
Proc sql;
create table TotalSales_In_Ohio as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Ohio
Quit;
Proc sql;
create table TotalSales_In_Oklahoma as
```

```
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Oklahoma
Quit;
Proc sql;
create table TotalSales_In_Oregon as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Oregon
Quit;
Proc sql;
create table TotalSales_In_Pennsylvania as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Pennsylvania
Quit;
Proc sql;
create table TotalSales_In_Rhode_Island as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Rhode_Island
```

```
Quit;
Proc sql;
create table TotalSales_In_South_Carolina as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_South_Carolina
Quit;
Proc sql;
create table TotalSales_In_South_Dakota as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_South_Dakota
Quit;
Proc sql;
create table TotalSales_In_Tennessee as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Tennessee
Quit;
Proc sql;
create table TotalSales_In_Texas as
SELECT sum(quantity) as Total_Sum_by_State_ID
```

```
From Work.DoltForState_In_Texas
Quit;
Proc sql;
create table TotalSales_In_Utah as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Utah
Quit;
Proc sql;
create table TotalSales_In_Vermont as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Vermont
Quit;
Proc sql;
create table TotalSales_In_Virginia as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Virginia
Quit;
```

```
Proc sql;
create table TotalSales_In_Washington as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Washington
Quit;
Proc sql;
create table TotalSales_In_West_Virginia as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_West_Virginia
Quit;
Proc sql;
create table TotalSales_In_Wisconsin as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work. DoltForState_In_Wisconsin
Quit;
Proc sql;
create table TotalSales_In_Wyoming as
SELECT sum(quantity) as Total_Sum_by_State_ID
From Work.DoltForState_In_Wyoming
```

```
Quit:
Proc sql;
create table TotalSales In DC as
SELECT sum(quantity) as Total Sum by State ID
From Work.DoltForState In DC
quit;
data Work.Sum1_of_Sales_by_State_ID;
set TotalSales_In_Alabama TotalSales_In_Alaska TotalSales_In_Arizona
TotalSales In Arkansas TotalSales In California TotalSales In Colorado
TotalSales In Connecticut TotalSales In Delaware TotalSales In Florida
TotalSales In Georgia TotalSales In Hawaii TotalSales In Idaho TotalSales In Ilinois
TotalSales In Indiana TotalSales In Iowa TotalSales In Kansas TotalSales In Kentucky
TotalSales In Louisiana TotalSales In Maine TotalSales In Maryland
TotalSales_In_Massachusetts TotalSales_In_Michigan TotalSales_In_Minnesota
TotalSales In Mississippi TotalSales In Missouri TotalSales In Montana
TotalSales_In_Nebraska TotalSales_In_Nevada TotalSales_In_New_Hampshire
TotalSales In New Jersey TotalSales In New Mexico TotalSales In New York
TotalSales In North Carolina TotalSales In North Dakota TotalSales In Ohio
TotalSales_In_Oklahoma TotalSales_In_Oregon TotalSales_In_Pennsylvania
TotalSales In Rhode Island TotalSales In South Carolina TotalSales In South Dakota
TotalSales In Tennessee TotalSales In Texas TotalSales In Utah TotalSales In Vermont
TotalSales In Virginia TotalSales In Washington TotalSales In West Virginia
TotalSales In Wisconsin TotalSales In Wyoming TotalSales In DC;
run;
Proc sql;
create table Billing_In_Alabama as
SELECT PriceOut*quantity * (1-discount) * (1-state tax rate)
```

```
FROM DoltForState_In_Alabama
Quit;
Proc sql;
create table TotalBilling_In_Alabama as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Alabama
Quit;
Proc sql;
create table Billing_In_Alaska as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Alaska
Quit;
Proc sql;
create table TotalBilling_In_Alaska as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Alaska
Quit;
Proc sql;
create table Billing_In_Arizona as
```

```
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Arizona
Quit;
Proc sql;
create table TotalBilling_In_Arizona as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Arizona
Quit;
Proc sql;
create table Billing_In_Arkansas as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoltForState_In_Arkansas
Quit;
Proc sql;
create table TotalBilling_In_Arkansas as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Arkansas
Quit;
```

```
Proc sql;
create table Billing_In_California as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoltForState_In_California
Quit;
Proc sql;
create table TotalBilling_In_California as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_California
Quit;
Proc sql;
create table Billing_In_Colorado as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoltForState_In_Colorado
Quit;
Proc sql;
create table TotalBilling_In_Colorado as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Colorado
```

```
Quit;
Proc sql;
create table Billing_In_Connecticut as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoltForState In Connecticut
Quit;
Proc sql;
create table TotalBilling_In_Connecticut as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Connecticut
Quit;
Proc sql;
create table Billing_In_Delaware as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoltForState_In_Delaware
Quit;
Proc sql;
create table TotalBilling_In_Delaware as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Delaware
```

```
Quit;
Proc sql;
create table Billing_In_Florida as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Florida
Quit;
Proc sql;
create table TotalBilling_In_Florida as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Florida
Quit;
Proc sql;
create table Billing_In_Georgia as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Georgia
Quit;
Proc sql;
create table TotalBilling_In_Georgia as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
```

```
From Work.Billing_In_Georgia
Quit;
Proc sql;
create table Billing_In_Hawaii as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Hawaii
Quit;
Proc sql;
create table TotalBilling_In_Hawaii as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Hawaii
Quit;
Proc sql;
create table Billing_In_Idaho as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Idaho
Quit;
Proc sql;
create table TotalBilling_In_Idaho as
```

```
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Idaho
Quit;
Proc sql;
create table Billing_In_Illinois as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Ilinois
Quit;
Proc sql;
create table TotalBilling_In_Illinois as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Illinois
Quit;
Proc sql;
create table Billing_In_Indiana as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Indiana
Quit;
Proc sql;
```

```
create table TotalBilling_In_Indiana as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Indiana
Quit;
Proc sql;
create table Billing_In_Iowa as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_lowa
Quit;
Proc sql;
create table TotalBilling_In_lowa as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_lowa
Quit;
Proc sql;
create table Billing_In_Kansas as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Kansas
Quit;
Proc sql;
```

```
create table TotalBilling_In_Kansas as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Kansas
Quit;
Proc sql;
create table Billing_In_Kentucky as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Kentucky
Quit;
Proc sql;
create table TotalBilling_In_Kentucky as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Kentucky
Quit;
Proc sql;
create table Billing_In_Louisiana as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Louisiana
Quit;
```

```
Proc sql;
create table TotalBilling_In_Louisiana as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Louisiana
Quit;
Proc sql;
create table Billing_In_Maine as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Maine
Quit;
Proc sql;
create table TotalBilling_In_Maine as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Maine
Quit;
Proc sql;
create table Billing_In_Maryland as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Maryland
```

```
Quit;
Proc sql;
create table TotalBilling_In_Maryland as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Maryland
Quit;
Proc sql;
create table Billing_In_Massachusetts as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Massachusetts
Quit;
Proc sql;
create table TotalBilling_In_Massachusetts as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Massachusetts
Quit;
Proc sql;
create table Billing_In_Michigan as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Michigan
```

```
Quit;
Proc sql;
create table TotalBilling_In_Michigan as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Michigan
Quit;
Proc sql;
create table Billing_In_Minnesota as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Minnesota
Quit;
Proc sql;
create table TotalBilling_In_Minnesota as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Minnesota
Quit;
Proc sql;
create table Billing_In_Mississippi as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Mississippi
```

```
Quit;
Proc sql;
create table TotalBilling_In_Mississippi as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Mississippi
Quit;
Proc sql;
create table Billing_In_Missouri as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Missouri
Quit;
Proc sql;
create table TotalBilling_In_Missouri as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Missouri
Quit;
Proc sql;
create table Billing_In_Montana as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
```

```
FROM DoltForState_In_Montana
Quit;
Proc sql;
create table TotalBilling_In_Montana as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Montana
Quit;
Proc sql;
create table Billing_In_Nebraska as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Nebraska
Quit;
Proc sql;
create table TotalBilling_In_Nebraska as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Nebraska
Quit;
Proc sql;
```

```
create table Billing_In_Nevada as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Nevada
Quit;
Proc sql;
create table TotalBilling_In_Nevada as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Nevada
Quit;
Proc sql;
create table Billing_In_New_Hampshire as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_New_Hampshire
Quit;
Proc sql;
create table TotalBilling_In_New_Hampshire as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_New_Hampshire
Quit;
Proc sql;
```

```
create table Billing_In_New_Jersey as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_New_Jersey
Quit;
Proc sql;
create table TotalBilling_In_New_Jersey as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_New_Jersey
Quit;
Proc sql;
create table Billing_In_New_Mexico as
SELECT PriceOut*quantity * (1-discount) * (1-state tax rate)
FROM DoltForState_In_New_Mexico
Quit;
Proc sql;
create table TotalBilling_In_New_Mexico as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_New_Mexico
Quit;
Proc sql;
```

```
create table Billing_In_New_York as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_New_York
Quit;
Proc sql;
create table TotalBilling_In_New_York as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_New_York
Quit;
Proc sql;
create table Billing_In_North_Carolina as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_North_Carolina
Quit;
Proc sql;
create table TotalBilling_In_North_Carolina as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_North_Carolina
Quit;
```

```
Proc sql;
create table Billing_In_North_Dakota as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_North_Dakota
Quit;
Proc sql;
create table TotalBilling_In_North_Dakota as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_North_Dakota
Quit;
Proc sql;
create table Billing_In_Ohio as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Ohio
Quit;
Proc sql;
create table TotalBilling_In_Ohio as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Ohio
Quit;
```

```
Proc sql;
create table Billing_In_Oklahoma as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Oklahoma
Quit;
Proc sql;
create table TotalBilling_In_Oklahoma as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Oklahoma
Quit;
Proc sql;
create table Billing_In_Oregon as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Oregon
Quit;
Proc sql;
create table TotalBilling_In_Oregon as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Oregon
Quit;
```

```
Proc sql;
create table Billing_In_Pennsylvania as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Pennsylvania
Quit;
Proc sql;
create table TotalBilling_In_Pennsylvania as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Pennsylvania
Quit;
Proc sql;
create table Billing_In_Rhode_Island as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Rhode_Island
Quit;
Proc sql;
create table TotalBilling_In_Rhode_Island as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Rhode_Island
Quit;
```

```
Proc sql;
create table Billing_In_South_Carolina as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_South_Carolina
Quit;
Proc sql;
create table TotalBilling_In_South_Carolina as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_South_Carolina
Quit;
Proc sql;
create table Billing_In_South_Dakota as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_South_Dakota
Quit;
Proc sql;
create table TotalBilling_In_South_Dakota as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Billing_In_South_Dakota
```

```
Quit;
Proc sql;
create table Billing_In_Tennessee as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Tennessee
Quit;
Proc sql;
create table TotalBilling_In_Tennessee as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Tennessee
Quit;
Proc sql;
create table Billing_In_Texas as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Texas
Quit;
Proc sql;
create table TotalBilling_In_Texas as
```

```
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Texas
Quit;
Proc sql;
create table Billing_In_Utah as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Utah
Quit;
Proc sql;
create table TotalBilling_In_Utah as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Utah
Quit;
Proc sql;
create table Billing_In_Vermont as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Vermont
```

```
Quit;
Proc sql;
create table TotalBilling_In_Vermont as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Vermont
Quit;
Proc sql;
create table Billing_In_Virginia as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Virginia
Quit;
Proc sql;
create table TotalBilling_In_Virginia as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Virginia
Quit;
Proc sql;
create table Billing_In_Washington as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
```

FROM DoltForState_In_Washington

```
Quit;
Proc sql;
create table TotalBilling_In_Washington as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Washington
Quit;
Proc sql;
create table Billing_In_West_Virginia as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_West_Virginia
Quit;
Proc sql;
create table TotalBilling_In_West_Virginia as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_West_Virginia
Quit;
```

```
Proc sql;
create table Billing_In_Wisconsin as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Wisconsin
Quit;
Proc sql;
create table TotalBilling_In_Wisconsin as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Wisconsin
Quit;
Proc sql;
create table Billing_In_Wyoming as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_Wyoming
Quit;
Proc sql;
create table TotalBilling_In_Wyoming as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_Wyoming
```

```
Quit;
Proc sql;
create table Billing_In_DC as
SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
FROM DoltForState_In_DC
Quit;
Proc sql;
create table TotalBilling_In_DC as
SELECT sum(_TEMA001) as TotalBilling_BY_StateID
From Work.Billing_In_DC
Quit;
data Work.S_of_Billing_by_State_ID;
set TotalBilling_In_Alabama TotalBilling_In_Alaska TotalBilling_In_Arizona
TotalBilling_In_Arkansas TotalBilling_In_California TotalBilling_In_Colorado
TotalBilling In Connecticut TotalBilling In Delaware TotalBilling In Florida
TotalBilling_In_Georgia TotalBilling_In_Hawaii TotalBilling_In_Idaho TotalBilling_In_Illinois
TotalBilling In Indiana TotalBilling In Iowa TotalBilling In Kansas TotalBilling In Kentucky
TotalBilling_In_Louisiana TotalBilling_In_Maine TotalBilling_In_Maryland
```

```
TotalBilling In Massachusetts TotalBilling In Michigan TotalBilling In Minnesota
TotalBilling_In_Mississippi TotalBilling_In_Missouri TotalBilling_In_Montana
TotalBilling In Nebraska TotalBilling In Nevada TotalBilling In New Hampshire
TotalBilling In New Jersey TotalBilling In New Mexico TotalBilling In New York
TotalBilling In North Carolina TotalBilling In North Dakota TotalBilling In Ohio
TotalBilling In Oklahoma TotalBilling In Oregon TotalBilling In Pennsylvania
TotalBilling In Rhode Island TotalBilling In South Carolina TotalBilling In South Dakota
TotalBilling In Tennessee TotalBilling In Texas TotalBilling In Utah TotalBilling In Vermont
TotalBilling In Virginia TotalBilling In Washington TotalBilling In West Virginia
TotalBilling In Wisconsin TotalBilling In Wyoming TotalBilling In DC;
run;
proc import datafile = '\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\States.xlsx'
 out = Sheet1
 dbms = xlsx
  replace
  sheet = "Sheet1";
 run;
proc import datafile = \\msfs-03.grove.ad.uconn.edu\home\stq19003\Desktop\States.xlsx'
 out = Sheet1
 dbms = xlsx
  replace
  sheet = "Sheet1";
 run;
 proc import datafile =
"\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\TheStateIDs.xlsx"
 out = IDs
 dbms = xlsx
  replace
  sheet = "IDs";
 run;
data Work.Billing_Sum_by_State_In_Dollars;
merge Work.S_of_Billing_by_State_ID Work.Sheet1 Work.IDs;
run;
data Work.Quantity_of_Sales_by_State;
merge Work.Sum1 of Sales by State ID Work.Sheet1 Work.IDs;
```

```
run;

proc univariate data=Work.Quantity_of_Sales_by_State;
var Total_Sum_by_State_ID;
histogram;
run;

proc univariate data=Work.Billing_Sum_by_State_In_Dollars;
var TotalBilling_BY_StateID;
histogram;
run;

data Work.Linear_Regression;

merge Work.Billing_Sum_by_State_In_Dollars Work.Quantity_of_Sales_by_State;
run;

proc reg data=Work.Linear_Regression outest=Work.reg1;
model Total_Sum_by_State_ID = TotalBilling_BY_StateID;

quit;
```

Here is the table pasted from SAS displaying the total sales:

Total_Sum_by_State _ID	=	STID	
2653	Alabama		1

2938	Alaska	2
	Arizona	3
4658	Arkansas	4
5782	California	5
4944	Colorado	
2935	Connecticut	7
5764	Delaware	8
3834	Florida	
2962	Georgia	10
3889	Hawaii	11
1929	Idaho	12
2012	Illinois	13
9573	Indiana	14
5048	Iowa	15
6600	Kansas	16
1904	Kentucky	17
2608	Louisiana	18
7722	Maine	19
1885	Maryland	20
	-	
1855	Massachusetts	21
9692	Michigan	22
	Minnesota	23
1835	Mississippi	24
5912	Missouri	25
2938	Montana	26
3047	Nebraska	27
5926	Nevada	28
1043	New Hampshire	29
2036	New Jersey	30
3936	New Mexico	31
3024	New York	32
4740	North Carolina	33
2010	North Dakota	34
914	Ohio	35
5128	Oklahoma	36
387	Oregon	37
3967	Pennsylvania	38
	Rhode Island	39

7857 South Carolina

40

931	South Dakota	41
3804	Tennessee	42
888	Texas	43
3757	Utah	44
3859	Vermont	45
3979	Virginia	46
6874	Washington	47
2997	West Virginia	48
2953	Wisconsin	49
4788	Wyoming	50
1894	DC	51

Here is the table pasted from SAS displaying the total billings:

TotalBilling_BY_StateID	Alphabetical Order	State_ID
395397.5	Alabama	1
452305.8	Alaska	2
201062.87	Arizona	3
595460.32	Arkansas	4
747533.69	California	5
573111.69	Colorado	6
367397.02	Connecticut	7
825402.24	Delaware	8
415251.3	Florida	9
319492.53	Georgia	10
564801.66	Hawaii	11
289461.72	Idaho	12
313490.51	Illinois	13
1483999.59	Indiana	14
715124.2	lowa	15
909599.32	Kansas	16
274406.76	Kentucky	17
309084.32	Louisiana	18
1124830.83	Maine	19
166027.96	Maryland	20
289361.37	Massachusetts	21
1167316.34	Michigan	22
293649.81	Minnesota	23
300866.41	Mississippi	24
799076.23	Missouri	25
421316.6	Montana	26
497475.26	Nebraska	27
921669.24	Nevada	28
143653.31	New Hampshire	29
297260.33	New Jersey	30

537004.17	New Mexico 31
459393.37	New York 32
563844.86	North Carolina 33
280152.72	North Dakota 34
113938.64	Ohio 35
619446.62	Oklahoma 36
626281.85	Oregon 37
514720.08	Pennsylvania 38
676933.54	Rhode Island 39
1283008.67	South Carolina 40
127588.72	South Dakota 41
416500.36	Tennessee 42
126711.54	Texas 43
510233.49	Utah 44
562330.25	Vermont 45
518604	Virginia 46
905825.75	Washington 47
427013.19	West Virginia 48
371729.68	Wisconsin 49
588840.3	Wyoming 50
245016.2	DC 51

Concluding thoughts:

The lowest amount of sales from all the states was from the State of Texas with 888 sales from Wellington Global Marketplace. The highest amount of sales from all the states from the State of Mighican with 9692 sales. As for the total billing, the state with the highest billing sum was the State of South Carolina with 1283008.6743 \$. The state with the lowest billing sum was the State of Ohio with 113939.6365 \$. While these numbers are quite volatile when compared to one another; are these calculations a good metric to evaluate the company's success in that particular state? Fortunately, further evaluation techniques could be utilized to see if these findings yield statistically significant results. Nevertheless, the hypotheses that the total quantity of sales and the total amount from billing compared to the total quantity of sales per state and the total amount from billing per state shall be tested under a regression analysis for statistical significance.