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BADM 3802

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Total Billing and Sales Analysis for Wellington Global Marketplace

This is my first project that I coded in SAS and SQL. I coded this as an assignment for Data and Text Mining; an undergraduate course held 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 price of the product quantity of product purchased * (1-discount rate of the sale) * (1+tax rate by state).*

Below is the analyzed code:

```
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\stg19003\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.CostIn, 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.CostIn, 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 DoItForState_In_Alabama as

SELECT *

From Work.CALL

Where STID =   1;
;
quit;

Proc sql;

create table DoItForState_In_Alaska as

SELECT *

From Work.CALL

Where STID =   2;
;
Quit;


Proc sql;

create table DoItForState_In_Arizona as

SELECT *

From Work.CALL

Where STID =   3;
;
quit;

Proc sql;

create table DoItForState_In_Arkansas as

SELECT *
```

```
From Work.CALL

Where STID =   4;
;
Quit;


Proc sql;

create table DoItForState_In_California as

SELECT *

From Work.CALL

Where STID =   5;
;
quit;

Proc sql;

create table DoItForState_In_Colorado as

SELECT *

From Work.CALL

Where STID =   6;
;
Quit;

Proc sql;

create table DoItForState_In_Connecticut as

SELECT *

From Work.CALL

Where STID =   7;
;
Quit;
```

```sas
Proc sql;

create table DoItForState_In_Delaware as

SELECT *

From Work.CALL

Where STID =   8;
;
Quit;

Proc sql;

create table DoItForState_In_Florida as

SELECT *

From Work.CALL

Where STID =   9;
;
Quit;

Proc sql;

create table DoItForState_In_Georgia as

SELECT *

From Work.CALL

Where STID =   10;
;
Quit;

Proc sql;

create table DoItForState_In_Hawaii as

SELECT *

From Work.CALL
```

```sas
Where STID =   11;
;
quit;


Proc sql;

create table DoItForState_In_Idaho as

SELECT *

From Work.CALL

Where STID =   12;
;
quit;

Proc sql;

create table DoItForState_In_Ilinois as

SELECT *

From Work.CALL

Where STID =   13;
;
Quit;

Proc sql;

create table DoItForState_In_Indiana as

SELECT *

From Work.CALL

Where STID =   14;
;
Quit;

Proc sql;
```

```
create table DoItForState_In_Iowa as

SELECT *

From Work.CALL

Where STID =   15;
;
Quit;

Proc sql;

create table DoItForState_In_Kansas as

SELECT *

From Work.CALL

Where STID =   16;
;
quit;


Proc sql;

create table DoItForState_In_Kentucky as

SELECT *

From Work.CALL

Where STID =   17;
;
Quit;


Proc sql;

create table DoItForState_In_Louisiana as

SELECT *

From Work.CALL
```

```sas
Where STID =   18;
;
Quit;


Proc sql;

create table DoItForState_In_Maine as

SELECT *

From Work.CALL

Where STID =   19;
;
Quit;

Proc sql;

create table DoItForState_In_Maryland as

SELECT *

From Work.CALL

Where STID =   20;
;
Quit;

Proc sql;

create table DoItForState_In_Massachusetts as

SELECT *

From Work.CALL

Where STID =   21;
;
Quit;


Proc sql;
```

```sql
create table DoItForState_In_Michigan as

SELECT *

From Work.CALL

Where STID =   22;
;
Quit;

Proc sql;

create table DoItForState_In_Minnesota as

SELECT *

From Work.CALL

Where STID =   23;
;
Quit;

Proc sql;

create table DoItForState_In_Mississippi as

SELECT *

From Work.CALL

Where STID =   24;
;
Quit;

Proc sql;

create table DoItForState_In_Missouri as

SELECT *

From Work.CALL

Where STID =   25;
;
```

```sas
Quit;

Proc sql;

create table DoItForState_In_Montana as

SELECT *

From Work.CALL

Where STID =   26;
;
Quit;

Proc sql;

create table DoItForState_In_Nebraska as

SELECT *

From Work.CALL

Where STID =   27;
;
Quit;

Proc sql;

create table DoItForState_In_Nevada as

SELECT *

From Work.CALL

Where STID =   28;
;
Quit;


Proc sql;

create table DoItForState_In_New_Hampshire as

SELECT *
```

```
From Work.CALL

Where STID =   29;
;
Quit;

Proc sql;

create table DoItForState_In_New_Jersey as

SELECT *

From Work.CALL

Where STID =   30;
;
Quit;

Proc sql;

create table DoItForState_In_New_Mexico as

SELECT *

From Work.CALL

Where STID =   31;
;
Quit;

Proc sql;

create table DoItForState_In_New_York as

SELECT *

From Work.CALL

Where STID =   32;
;
Quit;

Proc sql;
```

```
create table DoItForState_In_North_Carolina as

SELECT *

From Work.CALL

Where STID =   33;
;
Quit;

Proc sql;

create table DoItForState_In_North_Dakota as

SELECT *

From Work.CALL

Where STID =   34;
;
Quit;

Proc sql;

create table DoItForState_In_Ohio as

SELECT *

From Work.CALL

Where STID =   35;
;
Quit;

Proc sql;

create table DoItForState_In_Oklahoma as

SELECT *

From Work.CALL

Where STID =   36;
```

```
;
Quit;

Proc sql;

create table DoItForState_In_Oregon as

SELECT *

From Work.CALL

Where STID =   37;
;
Quit;

Proc sql;

create table DoItForState_In_Pennsylvania as

SELECT *

From Work.CALL

Where STID =   38;
;
Quit;

Proc sql;

create table DoItForState_In_Rhode_Island as

SELECT *

From Work.CALL

Where STID =   39;
;
Quit;

Proc sql;

create table DoItForState_In_South_Carolina as
```

```
SELECT *

From Work.CALL

Where STID =   40;
;
Quit;

Proc sql;

create table DoItForState_In_South_Dakota as

SELECT *

From Work.CALL

Where STID =   41;
;
Quit;

Proc sql;

create table DoItForState_In_Tennessee as

SELECT *

From Work.CALL

Where STID =   42;
;
Quit;

Proc sql;

create table DoItForState_In_Texas as

SELECT *

From Work.CALL

Where STID =   43;
;
Quit;
```

```
Proc sql;

create table DoItForState_In_Utah as

SELECT *

From Work.CALL

Where STID =   44;
;
Quit;

Proc sql;

create table DoItForState_In_Vermont as

SELECT *

From Work.CALL

Where STID =   45;
;
Quit;


Proc sql;

create table DoItForState_In_Virginia as

SELECT *

From Work.CALL

Where STID =   46;
;
Quit;

Proc sql;

create table DoItForState_In_Washington as

SELECT *
```

```
From Work.CALL

Where STID =   47;
;
Quit;

Proc sql;

create table DoItForState_In_West_Virginia as

SELECT *

From Work.CALL

Where STID =   48;
;
Quit;

Proc sql;

create table DoItForState_In_Wisconsin as

SELECT *

From Work.CALL

Where STID =   49;
;
Quit;

Proc sql;

create table DoItForState_In_Wyoming as

SELECT *

From Work.CALL

Where STID =   50;
;
Quit;

Proc sql;
```

```
create table DoItForState_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.DoItForState_In_Alabama


;
quit;

Proc sql;

create table TotalSales_In_Alaska as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Alaska


;
Quit;



Proc sql;

create table TotalSales_In_Arizona as
```

```
SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Arizona


;
quit;

Proc sql;

create table TotalSales_In_Arkansas  as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Arkansas


;
Quit;


Proc sql;

create table TotalSales_In_California as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_California


;
quit;

Proc sql;

create table TotalSales_In_Colorado as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Colorado


;
```

```sas
Quit;

Proc sql;

create table TotalSales_In_Connecticut as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Connecticut


;
Quit;

Proc sql;

create table TotalSales_In_Delaware as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Delaware


;
Quit;

Proc sql;

create table TotalSales_In_Florida as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Florida


;
Quit;

Proc sql;

create table TotalSales_In_Georgia as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID
```

```sas
From Work.DoItForState_In_Georgia

;
Quit;

Proc sql;

create table TotalSales_In_Hawaii as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Hawaii

;
quit;


Proc sql;

create table TotalSales_In_Idaho as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Idaho

;
quit;

Proc sql;

create table TotalSales_In_Ilinois as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Ilinois

;
Quit;

Proc sql;
```

```
create table TotalSales_In_Indiana as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Indiana


;
Quit;

Proc sql;

create table TotalSales_In_Iowa as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Iowa


;
Quit;

Proc sql;

create table TotalSales_In_Kansas  as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work. DoItForState_In_Kansas


;
quit;


Proc sql;

create table TotalSales_In_Kentucky as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Kentucky
```

```
;
Quit;

Proc sql;

create table TotalSales_In_Louisiana as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work. DoItForState_In_Louisiana

;
Quit;

Proc sql;

create table TotalSales_In_Maine as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Maine

;
Quit;

Proc sql;

create table TotalSales_In_Maryland as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Maryland

;
Quit;

Proc sql;
```

```
create table TotalSales_In_Massachusetts as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Massachusetts


;
Quit;

Proc sql;

create table TotalSales_In_Michigan as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Michigan


;
Quit;

Proc sql;

create table TotalSales_In_Minnesota as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_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
```

```sas
;
Quit;

Proc sql;

create table TotalSales_In_Missouri as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work. DoItForState_In_Missouri


;
Quit;

Proc sql;

create table TotalSales_In_Montana as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Montana


;
Quit;

Proc sql;

create table TotalSales_In_Nebraska as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work. DoItForState_In_Nebraska


;
Quit;

Proc sql;

create table TotalSales_In_Nevada as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID
```

From Work. DoItForState_In_Nevada

;

Quit;

Proc sql;

create table TotalSales_In_New_Hampshire as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_New_Hampshire

;

Quit;

Proc sql;

create table TotalSales_In_New_Jersey as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_New_Jersey

;

Quit;

Proc sql;

create table TotalSales_In_New_Mexico as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_New_Mexico

;

Quit;

```
Proc sql;

create table TotalSales_In_New_York as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_New_York


;
Quit;

Proc sql;

create table TotalSales_In_North_Carolina as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work. DoItForState_In_North_Carolina


;
Quit;

Proc sql;

create table TotalSales_In_North_Dakota as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_North_Dakota


;
Quit;

Proc sql;

create table TotalSales_In_Ohio as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Ohio
```

;
Quit;

Proc sql;

create table TotalSales_In_Oklahoma as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_Oklahoma

;
Quit;

Proc sql;

create table TotalSales_In_Oregon as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_Oregon

;
Quit;

Proc sql;

create table TotalSales_In_Pennsylvania as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_Pennsylvania

;
Quit;

Proc sql;

create table TotalSales_In_Rhode_Island as

```
SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Rhode_Island


;
Quit;

Proc sql;

create table TotalSales_In_South_Carolina as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_South_Carolina


;
Quit;

Proc sql;

create table TotalSales_In_South_Dakota as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_South_Dakota


;
Quit;

Proc sql;

create table TotalSales_In_Tennessee as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Tennessee


;
Quit;
```

```sas
Proc sql;

create table TotalSales_In_Texas  as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Texas


;
Quit;


Proc sql;

create table TotalSales_In_Utah as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Utah


;
Quit;

Proc sql;

create table TotalSales_In_Vermont as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Vermont


;
Quit;


Proc sql;

create table TotalSales_In_Virginia as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID
```

From Work.DoItForState_In_Virginia

;
Quit;

Proc sql;

create table TotalSales_In_Washington as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_Washington

;
Quit;

Proc sql;

create table TotalSales_In_West_Virginia as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work.DoItForState_In_West_Virginia

;
Quit;

Proc sql;

create table TotalSales_In_Wisconsin as

SELECT sum(quantity) as Total_Sum_by_State_ID

From Work. DoItForState_In_Wisconsin

;
Quit;

Proc sql;

```
create table TotalSales_In_Wyoming as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_In_Wyoming


;
Quit;

Proc sql;

create table TotalSales_In_DC as

SELECT  sum(quantity)  as  Total_Sum_by_State_ID

From Work.DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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
DoItForState_In_Arkansas


;
Quit;
Proc sql;

create table TotalBilling_In_Arkansas as
```

```sql
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
DoItForState_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
DoItForState_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
DoItForState_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
DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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)
```

```sas
FROM DoItForState_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 DoItForState_In_Iowa


;
Quit;
Proc sql;

create table TotalBilling_In_Iowa as

SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID

From Work.Billing_In_Iowa


;
Quit;

Proc sql;

create table Billing_In_Kansas as

SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
```

```
FROM DoItForState_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 DoItForState_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
```

```sas
SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
FROM DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_In_Missouri


;
Quit;
Proc sql;

create table TotalBilling_In_Missouri as

SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID

From Work.Billing_In_Missouri


;
Quit;
```

```sas
Proc sql;

create table Billing_In_Montana as

SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
FROM DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_In_South_Dakota


;
Quit;
```

```sas
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 DoItForState_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 DoItForState_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 DoItForState_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
```

```sql
SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
FROM DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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 DoItForState_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;




data Work.Billing_Sum_by_State_In_Dollars;

merge Work.S_of_Billing_by_State_ID Work.Sheet1;
run;

data Work.Quantity_of_Sales_by_State;

merge Work.Sum1_of_Sales_by_State_ID Work.Sheet1;
run;
```

Below is the log computed as a result of the code above. I accidentally printed this twice:

NOTE: Copyright (c) 2016 by SAS Institute Inc., Cary, NC, USA.
NOTE: SAS (r) Proprietary Software 9.4 (TS1M7)

NOTE: This session is executing on the X64_DSRV19 platform.

NOTE: Analytical products:

   SAS/STAT 15.2
   SAS/ETS 15.2
   SAS/OR 15.2
   SAS/IML 15.2
   SAS/QC 15.2

NOTE: Additional host information:

 X64_DSRV19 WIN 10.0.17763 Server

NOTE: SAS initialization used:
   real time   5.86 seconds
   cpu time   1.20 seconds

```
1    proc  import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
1 ! Marketplace.xlsx'
2      out  =  Products
3      dbms  =  xlsx
4       replace
5       ;
6       sheet  =  "Products";
7      run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9
engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 52 observations and 6 variables.
NOTE: WORK.PRODUCTS data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
   real time   0.26 seconds
   cpu time   0.06 seconds

```
8
9       proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
```

```
9  ! Marketplace.xlsx'
10    out = Customers
11    dbms = xlsx
12    replace
13    ;
14    sheet = "Customers";
15    run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 200 observations and 3 variables.
NOTE: WORK.CUSTOMERS data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   0.05 seconds
    cpu time   0.04 seconds

```
16
17    proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
17 ! Marketplace.xlsx'
18    out = Sales_Tax_By_State
19    dbms = xlsx
20    replace
21    ;
22    sheet = "Sales_Tax_By_State";
23    run;
```

NOTE: Variable Name Change. State Tax Rate -> State_Tax_Rate
NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 51 observations and 4 variables.
NOTE: WORK.SALES_TAX_BY_STATE data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   0.04 seconds
    cpu time   0.03 seconds

```
24
25    proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
25 ! Marketplace.xlsx'
```

```
26      out  =  Sales_2014
27      dbms  =  xlsx
28       replace
29       ;
30       sheet  =  "Sales_2014";
31      run;
```

NOTE: The import data set has 55462 observations and 7 variables.
NOTE: WORK.SALES_2014 data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   3.88 seconds
    cpu time   3.82 seconds

```
32
33       proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
33 ! Marketplace.xlsx'
34      out  =  Departments
35      dbms  =  xlsx
36       replace
37       ;
38       sheet  =  "Departments";
39      run;
```

NOTE: One or more variables were converted because the data type is not supported by the V9
engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 9 observations and 3 variables.
NOTE: WORK.DEPARTMENTS data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   0.04 seconds
    cpu time   0.03 seconds

```
40
41       proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\Wellington
Global
41 ! Marketplace.xlsx'
42      out  =  Employee_Master
43      dbms  =  xlsx
44       replace
45       ;
46       sheet  =  "Employee_Master";
```

```
47    run;

NOTE: One or more variables were converted because the data type is not supported by the V9
engine. For more
     details, run with options MSGLEVEL=I.
NOTE: The import data set has 40 observations and 8 variables.
NOTE: WORK.EMPLOYEE_MASTER data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
     real time          0.05 seconds
     cpu time           0.03 seconds


48
49    proc sql;
50     create table Work.DStates as
51     Select A.STID, A.State, A.State_CD, A.State_Tax_Rate,
52      B.Customer_Name,B.Cust_ID, B.State
53      From Work.Sales_tax_by_state A
54     Join Work.Customers B
55      On A.STID = B.State
56    ;
WARNING: Variable State already exists on file WORK.DSTATES.
NOTE: Table WORK.DSTATES created, with 200 rows and 6 columns.

57    quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.26 seconds
     cpu time           0.06 seconds


58
59    proc sql;
60    create table Work.DProducts as
61    Select A.sale_id, A.product_id, A.date, A.discount,A.Quantity, A.Customer_ID,
62    B.ProdName,B.CostIn, B.PriceOut, B.eff, B.exp, B.prodID
63    From Work.Sales_2014 A
64    Join Work.Products B
65    On B.prodID = A.product_id
66    And A.date >= B.eff
67    And A.date <= B.exp
68    ;
NOTE: Table WORK.DPRODUCTS created, with 55467 rows and 12 columns.

69    quit;
```

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.05 seconds
    cpu time   0.04 seconds

70
71
72
73
74
75
76 proc sql;
77 create table Work.CALL as
78 Select A.STID, A.State, A.State_CD,
A.State_Tax_Rate,A.Customer_Name,A.Cust_ID,A.State,
79 B.sale_id, B.product_id, B.date, B.discount,B.Quantity, B.Customer_ID,
80 B.ProdName,B.CostIn, B.PriceOut, B.eff, B.exp, B.prodID
81 From Work.DStates A
82 Join Work.DProducts B
83 On A.Cust_ID = B.Customer_ID
84 ;
WARNING: Variable State already exists on file WORK.CALL.
NOTE: Table WORK.CALL created, with 55467 rows and 18 columns.

85 quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.04 seconds
    cpu time   0.04 seconds

86
87
88
89
90 Proc sql;
91
92 create table DoItForState_In_Alabama as
93
94 SELECT *
95
96 From Work.CALL
97
98 Where STID = 1;
NOTE: Table WORK.DOITFORSTATE_IN_ALABAMA created, with 753 rows and 18 columns.

99 ;
100 quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

101
102 Proc sql;
103
104 create table DoItForState_In_Alaska as
105
106 SELECT *
107
108 From Work.CALL
109
110 Where STID =   2;
NOTE: Table WORK.DOITFORSTATE_IN_ALASKA created, with 836 rows and 18 columns.

111 ;
112 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

113
114
115
116 Proc sql;
117
118 create table DoItForState_In_Arizona as
119
120 SELECT *
121
122 From Work.CALL
123
124 Where STID =   3;
NOTE: Table WORK.DOITFORSTATE_IN_ARIZONA created, with 272 rows and 18 columns.

125 ;
126 quit;
NOTE: PROCEDURE SQL used (Total process time):

```
     real time           0.02 seconds
     cpu time            0.03 seconds


127
128  Proc sql;
129
130  create table DoItForState_In_Arkansas as
131
132  SELECT *
133
134  From Work.CALL
135
136  Where STID =   4;
NOTE: Table WORK.DOITFORSTATE_IN_ARKANSAS created, with 1334 rows and 18
columns.


137  ;
138  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time           0.02 seconds
     cpu time            0.03 seconds


139
140
141
142  Proc sql;
143
144  create table DoItForState_In_California as
145
146  SELECT *
147
148  From Work.CALL
149
150  Where STID =   5;
NOTE: Table WORK.DOITFORSTATE_IN_CALIFORNIA created, with 1660 rows and 18
columns.


151  ;
152  quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time           0.02 seconds
     cpu time            0.03 seconds
```

153
154 Proc sql;
155
156 create table DoItForState_In_Colorado as
157
158 SELECT *
159
160 From Work.CALL
161
162 Where STID =   6;
NOTE: Table WORK.DOITFORSTATE_IN_COLORADO created, with 1403 rows and 18 columns.

163 ;
164 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

165
166 Proc sql;
167
168 create table DoItForState_In_Connecticut as
169
170 SELECT *
171
172 From Work.CALL
173
174 Where STID =   7;
NOTE: Table WORK.DOITFORSTATE_IN_CONNECTICUT created, with 831 rows and 18 columns.

175 ;
176 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

177
178 Proc sql;

179
180 create table DoItForState_In_Delaware as
181
182 SELECT *
183
184 From Work.CALL
185
186 Where STID =   8;
NOTE: Table WORK.DOITFORSTATE_IN_DELAWARE created, with 1644 rows and 18 columns.

187 ;
188 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.03 seconds

189
190 Proc sql;
191
192 create table DoItForState_In_Florida as
193
194 SELECT *
195
196 From Work.CALL
197
198 Where STID =   9;
NOTE: Table WORK.DOITFORSTATE_IN_FLORIDA created, with 1101 rows and 18 columns.

199 ;
200 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.03 seconds

201
202 Proc sql;
203
204 create table DoItForState_In_Georgia as
205
206 SELECT *
207

208 From Work.CALL
209
210 Where STID =   10;
NOTE: Table WORK.DOITFORSTATE_IN_GEORGIA created, with 860 rows and 18 columns.

211 ;
212 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

213
214 Proc sql;
215
216 create table DoItForState_In_Hawaii as
217
218 SELECT *
219
220 From Work.CALL
221
222 Where STID =   11;
NOTE: Table WORK.DOITFORSTATE_IN_HAWAII created, with 1105 rows and 18 columns.

223 ;
224 quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

225
226
227 Proc sql;
228
229 create table DoItForState_In_Idaho as
230
231 SELECT *
232
233 From Work.CALL
234
235 Where STID =   12;
NOTE: Table WORK.DOITFORSTATE_IN_IDAHO created, with 547 rows and 18 columns.

236 ;
237 quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

238
239 Proc sql;
240
241 create table DoItForState_In_Ilinois as
242
243 SELECT *
244
245 From Work.CALL
246
247 Where STID =   13;
NOTE: Table WORK.DOITFORSTATE_IN_ILINOIS created, with 576 rows and 18 columns.

248 ;
249 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

250
251 Proc sql;
252
253 create table DoItForState_In_Indiana as
254
255 SELECT *
256
257 From Work.CALL
258
259 Where STID =   14;
NOTE: Table WORK.DOITFORSTATE_IN_INDIANA created, with 2738 rows and 18 columns.

260 ;
261 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

262

263 Proc sql;

264

265 create table DoItForState_In_Iowa as

266

267 SELECT *

268

269 From Work.CALL

270

271 Where STID =   15;

NOTE: Table WORK.DOITFORSTATE_IN_IOWA created, with 1435 rows and 18 columns.

272 ;

273 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

274

275 Proc sql;

276

277 create table DoItForState_In_Kansas as

278

279 SELECT *

280

281 From Work.CALL

282

283 Where STID =   16;

NOTE: Table WORK.DOITFORSTATE_IN_KANSAS created, with 1916 rows and 18 columns.

284 ;

285 quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

286

287

288 Proc sql;

289

290 create table DoItForState_In_Kentucky as

291

292 SELECT *

293

294 From Work.CALL

295

296 Where STID =   17;

NOTE: Table WORK.DOITFORSTATE_IN_KENTUCKY created, with 547 rows and 18 columns.

297 ;

298 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.02 seconds

    cpu time   0.03 seconds

299

300

301 Proc sql;

302

303 create table DoItForState_In_Louisiana as

304

305 SELECT *

306

307 From Work.CALL

308

309 Where STID =   18;

NOTE: Table WORK.DOITFORSTATE_IN_LOUISIANA created, with 766 rows and 18 columns.

310 ;

311 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.02 seconds

    cpu time   0.01 seconds

312

313

314 Proc sql;

315

316 create table DoItForState_In_Maine as

317

318 SELECT *

319

320 From Work.CALL

```
321
322  Where STID =   19;
NOTE: Table WORK.DOITFORSTATE_IN_MAINE created, with 2211 rows and 18 columns.

323  ;
324  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.02 seconds
     cpu time           0.03 seconds


325
326  Proc sql;
327
328  create table DoItForState_In_Maryland as
329
330  SELECT *
331
332  From Work.CALL
333
334  Where STID =   20;
NOTE: Table WORK.DOITFORSTATE_IN_MARYLAND created, with 552 rows and 18 columns.

335  ;
336  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.02 seconds
     cpu time           0.03 seconds


337
338  Proc sql;
339
340  create table DoItForState_In_Massachusetts as
341
342  SELECT *
343
344  From Work.CALL
345
346  Where STID =   21;
NOTE: Table WORK.DOITFORSTATE_IN_MASSACHUSETTS created, with 541 rows and 18
columns.

347  ;
```

348 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

349
350
351 Proc sql;
352
353 create table DoItForState_In_Michigan as
354
355 SELECT *
356
357 From Work.CALL
358
359 Where STID =   22;
NOTE: Table WORK.DOITFORSTATE_IN_MICHIGAN created, with 2774 rows and 18 columns.

360 ;
361 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

362
363 Proc sql;
364
365 create table DoItForState_In_Minnesota as
366
367 SELECT *
368
369 From Work.CALL
370
371 Where STID =   23;
NOTE: Table WORK.DOITFORSTATE_IN_MINNESOTA created, with 535 rows and 18 columns.

372 ;
373 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

374

375 Proc sql;

376

377 create table DoItForState_In_Mississippi as

378

379 SELECT *

380

381 From Work.CALL

382

383 Where STID =   24;

NOTE: Table WORK.DOITFORSTATE_IN_MISSISSIPPI created, with 524 rows and 18 columns.

384 ;

385 Quit;

NOTE: PROCEDURE SQL used (Total process time):
      real time   0.03 seconds
      cpu time   0.03 seconds

386

387 Proc sql;

388

389 create table DoItForState_In_Missouri as

390

391 SELECT *

392

393 From Work.CALL

394

395 Where STID =   25;

NOTE: Table WORK.DOITFORSTATE_IN_MISSOURI created, with 1707 rows and 18 columns.

396 ;

397 Quit;

NOTE: PROCEDURE SQL used (Total process time):
      real time   0.03 seconds
      cpu time   0.01 seconds

398

399 Proc sql;

400

```
401  create table DoItForState_In_Montana as
402
403  SELECT *
404
405  From Work.CALL
406
407  Where STID =   26;
NOTE: Table WORK.DOITFORSTATE_IN_MONTANA created, with 847 rows and 18 columns.

408  ;
409  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


410
411  Proc sql;
412
413  create table DoItForState_In_Nebraska as
414
415  SELECT *
416
417  From Work.CALL
418
419  Where STID =   27;
NOTE: Table WORK.DOITFORSTATE_IN_NEBRASKA created, with 872 rows and 18 columns.

420  ;
421  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.15 seconds
     cpu time           0.03 seconds


422
423  Proc sql;
424
425  create table DoItForState_In_Nevada as
426
427  SELECT *
428
429  From Work.CALL
430
```

431 Where STID =   28;
NOTE: Table WORK.DOITFORSTATE_IN_NEVADA created, with 1692 rows and 18 columns.

432 ;
433 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

434
435
436 Proc sql;
437
438 create table DoItForState_In_New_Hampshire as
439
440 SELECT *
441
442 From Work.CALL
443
444 Where STID =   29;
NOTE: Table WORK.DOITFORSTATE_IN_NEW_HAMPSHIRE created, with 290 rows and 18 columns.

445 ;
446 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

447
448 Proc sql;
449
450 create table DoItForState_In_New_Jersey as
451
452 SELECT *
453
454 From Work.CALL
455
456 Where STID =   30;
NOTE: Table WORK.DOITFORSTATE_IN_NEW_JERSEY created, with 574 rows and 18 columns.

457 ;
458 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.05 seconds
    cpu time   0.03 seconds

459
460 Proc sql;
461
462 create table DoItForState_In_New_Mexico as
463
464 SELECT *
465
466 From Work.CALL
467
468 Where STID =   31;
NOTE: Table WORK.DOITFORSTATE_IN_NEW_MEXICO created, with 1147 rows and 18 columns.

469 ;
470 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

471
472 Proc sql;
473
474 create table DoItForState_In_New_York as
475
476 SELECT *
477
478 From Work.CALL
479
480 Where STID =   32;
NOTE: Table WORK.DOITFORSTATE_IN_NEW_YORK created, with 840 rows and 18 columns.

481 ;
482 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds

cpu time   0.01 seconds

483
484 Proc sql;
485
486 create table DoItForState_In_North_Carolina as
487
488 SELECT *
489
490 From Work.CALL
491
492 Where STID =   33;
NOTE: Table WORK.DOITFORSTATE_IN_NORTH_CAROLINA created, with 1359 rows and 18
columns.

493 ;
494 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

495
496 Proc sql;
497
498 create table DoItForState_In_North_Dakota as
499
500 SELECT *
501
502 From Work.CALL
503
504 Where STID =   34;
NOTE: Table WORK.DOITFORSTATE_IN_NORTH_DAKOTA created, with 574 rows and 18
columns.

505 ;
506 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

507

508 Proc sql;

509

510 create table DoItForState_In_Ohio as

511

512 SELECT *

513

514 From Work.CALL

515

516 Where STID =   35;

NOTE: Table WORK.DOITFORSTATE_IN_OHIO created, with 271 rows and 18 columns.

517 ;

518 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

519

520 Proc sql;

521

522 create table DoItForState_In_Oklahoma as

523

524 SELECT *

525

526 From Work.CALL

527

528 Where STID =   36;

NOTE: Table WORK.DOITFORSTATE_IN_OKLAHOMA created, with 1446 rows and 18 columns.

529 ;

530 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

531

532

533 Proc sql;

534

535 create table DoItForState_In_Oregon as

536

537 SELECT *

538

539 From Work.CALL

540

541 Where STID =   37;

NOTE: Table WORK.DOITFORSTATE_IN_OREGON created, with 1081 rows and 18 columns.

542 ;

543 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.02 seconds

    cpu time   0.03 seconds

544

545 Proc sql;

546

547 create table DoItForState_In_Pennsylvania as

548

549 SELECT *

550

551 From Work.CALL

552

553 Where STID =   38;

NOTE: Table WORK.DOITFORSTATE_IN_PENNSYLVANIA created, with 1128 rows and 18 columns.

554 ;

555 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.02 seconds

    cpu time   0.01 seconds

556

557 Proc sql;

558

559 create table DoItForState_In_Rhode_Island as

560

561 SELECT *

562

563 From Work.CALL

564

565 Where STID =   39;

NOTE: Table WORK.DOITFORSTATE_IN_RHODE_ISLAND created, with 1412 rows and 18 columns.

566 ;
567 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.01 seconds

568
569 Proc sql;
570
571 create table DoItForState_In_South_Carolina as
572
573 SELECT *
574
575 From Work.CALL
576
577 Where STID =   40;
NOTE: Table WORK.DOITFORSTATE_IN_SOUTH_CAROLINA created, with 2246 rows and 18 columns.

578 ;
579 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.00 seconds

580
581 Proc sql;
582
583 create table DoItForState_In_South_Dakota as
584
585 SELECT *
586
587 From Work.CALL
588
589 Where STID =   41;
NOTE: Table WORK.DOITFORSTATE_IN_SOUTH_DAKOTA created, with 267 rows and 18 columns.

590 ;

591 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.03 seconds

592
593 Proc sql;
594
595 create table DoItForState_In_Tennessee as
596
597 SELECT *
598
599 From Work.CALL
600
601 Where STID =   42;
NOTE: Table WORK.DOITFORSTATE_IN_TENNESSEE created, with 1087 rows and 18 columns.

602 ;
603 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

604
605 Proc sql;
606
607 create table DoItForState_In_Texas as
608
609 SELECT *
610
611 From Work.CALL
612
613 Where STID =   43;
NOTE: Table WORK.DOITFORSTATE_IN_TEXAS created, with 255 rows and 18 columns.

614 ;
615 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.02 seconds
    cpu time   0.01 seconds

```
616
617
618  Proc sql;
619
620  create table DoItForState_In_Utah as
621
622  SELECT *
623
624  From Work.CALL
625
626  Where STID =   44;
NOTE: Table WORK.DOITFORSTATE_IN_UTAH created, with 1076 rows and 18 columns.

627  ;
628  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time         0.02 seconds
    cpu time          0.03 seconds


629
630  Proc sql;
631
632  create table DoItForState_In_Vermont as
633
634  SELECT *
635
636  From Work.CALL
637
638  Where STID =   45;
NOTE: Table WORK.DOITFORSTATE_IN_VERMONT created, with 1112 rows and 18 columns.

639  ;
640  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time         0.02 seconds
    cpu time          0.01 seconds


641
642
643  Proc sql;
644
```

645 create table DoItForState_In_Virginia as
646
647 SELECT *
648
649 From Work.CALL
650
651 Where STID =   46;
NOTE: Table WORK.DOITFORSTATE_IN_VIRGINIA created, with 1174 rows and 18 columns.

652 ;
653 Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time   0.02 seconds
     cpu time   0.03 seconds

654
655 Proc sql;
656
657 create table DoItForState_In_Washington as
658
659 SELECT *
660
661 From Work.CALL
662
663 Where STID =   47;
NOTE: Table WORK.DOITFORSTATE_IN_WASHINGTON created, with 1937 rows and 18
columns.

664 ;
665 Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time   0.02 seconds
     cpu time   0.03 seconds

666
667 Proc sql;
668
669 create table DoItForState_In_West_Virginia as
670
671 SELECT *
672
673 From Work.CALL

674
675 Where STID =   48;
NOTE: Table WORK.DOITFORSTATE_IN_WEST_VIRGINIA created, with 836 rows and 18 columns.

676 ;
677 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.03 seconds

678
679 Proc sql;
680
681 create table DoItForState_In_Wisconsin as
682
683 SELECT *
684
685 From Work.CALL
686
687 Where STID =   49;
NOTE: Table WORK.DOITFORSTATE_IN_WISCONSIN created, with 841 rows and 18 columns.

688 ;
689 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.02 seconds
      cpu time   0.01 seconds

690
691 Proc sql;
692
693 create table DoItForState_In_Wyoming as
694
695 SELECT *
696
697 From Work.CALL
698
699 Where STID =   50;
NOTE: Table WORK.DOITFORSTATE_IN_WYOMING created, with 1400 rows and 18 columns.

```
700  ;
701  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.02 seconds
      cpu time           0.01 seconds


702
703  Proc sql;
704
705  create table DoItForState_In_DC as
706
707  SELECT *
708
709  From Work.CALL
710
711  Where STID =   51;
NOTE: Table WORK.DOITFORSTATE_IN_DC created, with 535 rows and 18 columns.

712  ;
713  quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.02 seconds
      cpu time           0.00 seconds


714
715
716
717
718
719  Proc sql;
720
721  create table TotalSales_In_Alabama as
722
723  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
724
725  From Work.DoItForState_In_Alabama
726
727
728  ;
NOTE: Table WORK.TOTALSALES_IN_ALABAMA created, with 1 rows and 1 columns.

729  quit;
```

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

730
731 Proc sql;
732
733 create table TotalSales_In_Alaska as
734
735 SELECT sum(quantity) as Total_Sum_by_State_ID
736
737 From Work.DoItForState_In_Alaska
738
739
740 ;
NOTE: Table WORK.TOTALSALES_IN_ALASKA created, with 1 rows and 1 columns.

741 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

742
743
744
745 Proc sql;
746
747 create table TotalSales_In_Arizona as
748
749 SELECT sum(quantity) as Total_Sum_by_State_ID
750
751 From Work.DoItForState_In_Arizona
752
753
754 ;
NOTE: Table WORK.TOTALSALES_IN_ARIZONA created, with 1 rows and 1 columns.

755 quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

756
757 Proc sql;
758
759 create table TotalSales_In_Arkansas as
760
761 SELECT sum(quantity) as Total_Sum_by_State_ID
762
763 From Work.DoItForState_In_Arkansas
764
765
766 ;
NOTE: Table WORK.TOTALSALES_IN_ARKANSAS created, with 1 rows and 1 columns.

767 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.00 seconds

768
769
770
771 Proc sql;
772
773 create table TotalSales_In_California as
774
775 SELECT sum(quantity) as Total_Sum_by_State_ID
776
777 From Work.DoItForState_In_California
778
779
780 ;
NOTE: Table WORK.TOTALSALES_IN_CALIFORNIA created, with 1 rows and 1 columns.

781 quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

782
783 Proc sql;
784

785 create table TotalSales_In_Colorado as

786

787 SELECT sum(quantity) as Total_Sum_by_State_ID

788

789 From Work.DoItForState_In_Colorado

790

791

792 ;

NOTE: Table WORK.TOTALSALES_IN_COLORADO created, with 1 rows and 1 columns.

793 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

794

795 Proc sql;

796

797 create table TotalSales_In_Connecticut as

798

799 SELECT sum(quantity) as Total_Sum_by_State_ID

800

801 From Work.DoItForState_In_Connecticut

802

803

804 ;

NOTE: Table WORK.TOTALSALES_IN_CONNECTICUT created, with 1 rows and 1 columns.

805 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

806

807 Proc sql;

808

809 create table TotalSales_In_Delaware as

810

811 SELECT sum(quantity) as Total_Sum_by_State_ID

812

813 From Work.DoItForState_In_Delaware

814

815
816 ;
NOTE: Table WORK.TOTALSALES_IN_DELAWARE created, with 1 rows and 1 columns.

817 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

818
819 Proc sql;
820
821 create table TotalSales_In_Florida as
822
823 SELECT sum(quantity) as Total_Sum_by_State_ID
824
825 From Work.DoItForState_In_Florida
826
827
828 ;
NOTE: Table WORK.TOTALSALES_IN_FLORIDA created, with 1 rows and 1 columns.

829 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

830
831 Proc sql;
832
833 create table TotalSales_In_Georgia as
834
835 SELECT sum(quantity) as Total_Sum_by_State_ID
836
837 From Work.DoItForState_In_Georgia
838
839
840 ;
NOTE: Table WORK.TOTALSALES_IN_GEORGIA created, with 1 rows and 1 columns.

841 Quit;
NOTE: PROCEDURE SQL used (Total process time):

```
    real time          0.01 seconds
    cpu time           0.01 seconds


842
843  Proc sql;
844
845  create table TotalSales_In_Hawaii as
846
847  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
848
849  From Work.DoItForState_In_Hawaii
850
851
852  ;
NOTE: Table WORK.TOTALSALES_IN_HAWAII created, with 1 rows and 1 columns.

853  quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time          0.01 seconds
    cpu time           0.01 seconds


854
855
856  Proc sql;
857
858  create table TotalSales_In_Idaho as
859
860  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
861
862  From Work.DoItForState_In_Idaho
863
864
865  ;
NOTE: Table WORK.TOTALSALES_IN_IDAHO created, with 1 rows and 1 columns.

866  quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time          0.01 seconds
    cpu time           0.01 seconds


867
```

868 Proc sql;

869

870 create table TotalSales_In_Ilinois as

871

872 SELECT sum(quantity) as Total_Sum_by_State_ID

873

874 From Work.DoItForState_In_Ilinois

875

876

877 ;

NOTE: Table WORK.TOTALSALES_IN_ILINOIS created, with 1 rows and 1 columns.

878 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

879

880 Proc sql;

881

882 create table TotalSales_In_Indiana as

883

884 SELECT sum(quantity) as Total_Sum_by_State_ID

885

886 From Work.DoItForState_In_Indiana

887

888

889 ;

NOTE: Table WORK.TOTALSALES_IN_INDIANA created, with 1 rows and 1 columns.

890 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

891

892 Proc sql;

893

894 create table TotalSales_In_Iowa as

895

896 SELECT sum(quantity) as Total_Sum_by_State_ID

897

898 From Work.DoItForState_In_Iowa

899

900

901 ;

NOTE: Table WORK.TOTALSALES_IN_IOWA created, with 1 rows and 1 columns.

902 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.00 seconds

903

904 Proc sql;

905

906 create table TotalSales_In_Kansas as

907

908 SELECT sum(quantity) as Total_Sum_by_State_ID

909

910 From Work. DoItForState_In_Kansas

911

912

913 ;

NOTE: Table WORK.TOTALSALES_IN_KANSAS created, with 1 rows and 1 columns.

914 quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

915

916

917 Proc sql;

918

919 create table TotalSales_In_Kentucky as

920

921 SELECT sum(quantity) as Total_Sum_by_State_ID

922

923 From Work.DoItForState_In_Kentucky

924

925

926 ;

NOTE: Table WORK.TOTALSALES_IN_KENTUCKY created, with 1 rows and 1 columns.

927 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

928
929
930 Proc sql;
931
932 create table TotalSales_In_Louisiana as
933
934 SELECT sum(quantity) as Total_Sum_by_State_ID
935
936 From Work. DoItForState_In_Louisiana
937
938
939 ;
NOTE: Table WORK.TOTALSALES_IN_LOUISIANA created, with 1 rows and 1 columns.

940 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

941
942
943 Proc sql;
944
945 create table TotalSales_In_Maine as
946
947 SELECT sum(quantity) as Total_Sum_by_State_ID
948
949 From Work.DoItForState_In_Maine
950
951
952 ;
NOTE: Table WORK.TOTALSALES_IN_MAINE created, with 1 rows and 1 columns.

953 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds

954
955 Proc sql;
956
957 create table TotalSales_In_Maryland as
958
959 SELECT sum(quantity) as Total_Sum_by_State_ID
960
961 From Work.DoItForState_In_Maryland
962
963
964 ;
NOTE: Table WORK.TOTALSALES_IN_MARYLAND created, with 1 rows and 1 columns.

965 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

966
967 Proc sql;
968
969 create table TotalSales_In_Massachusetts as
970
971 SELECT sum(quantity) as Total_Sum_by_State_ID
972
973 From Work.DoItForState_In_Massachusetts
974
975
976 ;
NOTE: Table WORK.TOTALSALES_IN_MASSACHUSETTS created, with 1 rows and 1 columns.

977 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

978
979

980 Proc sql;

981

982 create table TotalSales_In_Michigan as

983

984 SELECT sum(quantity) as Total_Sum_by_State_ID

985

986 From Work.DoItForState_In_Michigan

987

988

989 ;

NOTE: Table WORK.TOTALSALES_IN_MICHIGAN created, with 1 rows and 1 columns.

990 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

991

992 Proc sql;

993

994 create table TotalSales_In_Minnesota as

995

996 SELECT sum(quantity) as Total_Sum_by_State_ID

997

998 From Work.DoItForState_In_Minnesota

999

1000

1001 ;

NOTE: Table WORK.TOTALSALES_IN_MINNESOTA created, with 1 rows and 1 columns.

1002 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1003

1004 Proc sql;

1005

1006 create table TotalSales_In_Mississippi as

1007

1008 SELECT sum(quantity) as Total_Sum_by_State_ID

1009

1010 From Work.DoItForState_In_Mississippi

1011

1012

1013 ;

NOTE: Table WORK.TOTALSALES_IN_MISSISSIPPI created, with 1 rows and 1 columns.

1014 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

1015

1016 Proc sql;

1017

1018 create table TotalSales_In_Missouri as

1019

1020 SELECT sum(quantity) as Total_Sum_by_State_ID

1021

1022 From Work. DoItForState_In_Missouri

1023

1024

1025 ;

NOTE: Table WORK.TOTALSALES_IN_MISSOURI created, with 1 rows and 1 columns.

1026 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

1027

1028 Proc sql;

1029

1030 create table TotalSales_In_Montana as

1031

1032 SELECT sum(quantity) as Total_Sum_by_State_ID

1033

1034 From Work.DoItForState_In_Montana

1035

1036

1037 ;

NOTE: Table WORK.TOTALSALES_IN_MONTANA created, with 1 rows and 1 columns.

1038 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1039
1040 Proc sql;
1041
1042 create table TotalSales_In_Nebraska as
1043
1044 SELECT sum(quantity) as Total_Sum_by_State_ID
1045
1046 From Work. DoItForState_In_Nebraska
1047
1048
1049 ;
NOTE: Table WORK.TOTALSALES_IN_NEBRASKA created, with 1 rows and 1 columns.

1050 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1051
1052 Proc sql;
1053
1054 create table TotalSales_In_Nevada as
1055
1056 SELECT sum(quantity) as Total_Sum_by_State_ID
1057
1058 From Work. DoItForState_In_Nevada
1059
1060
1061 ;
NOTE: Table WORK.TOTALSALES_IN_NEVADA created, with 1 rows and 1 columns.

1062 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1063

1064

1065  Proc sql;

1066

1067  create table TotalSales_In_New_Hampshire as

1068

1069  SELECT  sum(quantity)  as  Total_Sum_by_State_ID

1070

1071  From Work.DoItForState_In_New_Hampshire

1072

1073

1074  ;
```

NOTE: Table WORK.TOTALSALES_IN_NEW_HAMPSHIRE created, with 1 rows and 1 columns.

```
1075  Quit;
```

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1076

1077  Proc sql;

1078

1079  create table TotalSales_In_New_Jersey as

1080

1081  SELECT  sum(quantity)  as  Total_Sum_by_State_ID

1082

1083  From Work.DoItForState_In_New_Jersey

1084

1085

1086  ;
```

NOTE: Table WORK.TOTALSALES_IN_NEW_JERSEY created, with 1 rows and 1 columns.

```
1087  Quit;
```

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1088

1089  Proc sql;

1090

1091  create table TotalSales_In_New_Mexico as
```

```
1092
1093  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1094
1095  From Work.DoItForState_In_New_Mexico
1096
1097
1098  ;
NOTE: Table WORK.TOTALSALES_IN_NEW_MEXICO created, with 1 rows and 1 columns.

1099  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


1100
1101  Proc sql;
1102
1103  create table TotalSales_In_New_York as
1104
1105  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1106
1107  From Work.DoItForState_In_New_York
1108
1109
1110  ;
NOTE: Table WORK.TOTALSALES_IN_NEW_YORK created, with 1 rows and 1 columns.

1111  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


1112
1113  Proc sql;
1114
1115  create table TotalSales_In_North_Carolina as
1116
1117  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1118
1119  From Work. DoItForState_In_North_Carolina
1120
1121
```

1122 ;
NOTE: Table WORK.TOTALSALES_IN_NORTH_CAROLINA created, with 1 rows and 1
columns.

1123 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1124
1125 Proc sql;
1126
1127 create table TotalSales_In_North_Dakota as
1128
1129 SELECT sum(quantity) as Total_Sum_by_State_ID
1130
1131 From Work.DoItForState_In_North_Dakota
1132
1133
1134 ;
NOTE: Table WORK.TOTALSALES_IN_NORTH_DAKOTA created, with 1 rows and 1 columns.

1135 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.03 seconds
    cpu time   0.00 seconds

1136
1137 Proc sql;
1138
1139 create table TotalSales_In_Ohio as
1140
1141 SELECT sum(quantity) as Total_Sum_by_State_ID
1142
1143 From Work.DoItForState_In_Ohio
1144
1145
1146 ;
NOTE: Table WORK.TOTALSALES_IN_OHIO created, with 1 rows and 1 columns.

1147 Quit;
NOTE: PROCEDURE SQL used (Total process time):

```
     real time          0.01 seconds
     cpu time           0.00 seconds


1148
1149  Proc sql;
1150
1151  create table TotalSales_In_Oklahoma as
1152
1153  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1154
1155  From Work.DoItForState_In_Oklahoma
1156
1157
1158  ;
NOTE: Table WORK.TOTALSALES_IN_OKLAHOMA created, with 1 rows and 1 columns.

1159  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.00 seconds


1160
1161
1162  Proc sql;
1163
1164  create table TotalSales_In_Oregon as
1165
1166  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1167
1168  From Work.DoItForState_In_Oregon
1169
1170
1171  ;
NOTE: Table WORK.TOTALSALES_IN_OREGON created, with 1 rows and 1 columns.

1172  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


1173
```

1174 Proc sql;

1175

1176 create table TotalSales_In_Pennsylvania as

1177

1178 SELECT sum(quantity) as Total_Sum_by_State_ID

1179

1180 From Work.DoItForState_In_Pennsylvania

1181

1182

1183 ;

NOTE: Table WORK.TOTALSALES_IN_PENNSYLVANIA created, with 1 rows and 1 columns.

1184 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1185

1186 Proc sql;

1187

1188 create table TotalSales_In_Rhode_Island as

1189

1190 SELECT sum(quantity) as Total_Sum_by_State_ID

1191

1192 From Work.DoItForState_In_Rhode_Island

1193

1194

1195 ;

NOTE: Table WORK.TOTALSALES_IN_RHODE_ISLAND created, with 1 rows and 1 columns.

1196 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1197

1198 Proc sql;

1199

1200 create table TotalSales_In_South_Carolina as

1201

1202 SELECT sum(quantity) as Total_Sum_by_State_ID

1203

1204 From Work.DoItForState_In_South_Carolina

1205

1206

1207 ;

NOTE: Table WORK.TOTALSALES_IN_SOUTH_CAROLINA created, with 1 rows and 1 columns.

1208 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.01 seconds

1209

1210 Proc sql;

1211

1212 create table TotalSales_In_South_Dakota as

1213

1214 SELECT sum(quantity) as Total_Sum_by_State_ID

1215

1216 From Work.DoItForState_In_South_Dakota

1217

1218

1219 ;

NOTE: Table WORK.TOTALSALES_IN_SOUTH_DAKOTA created, with 1 rows and 1 columns.

1220 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.01 seconds

1221

1222 Proc sql;

1223

1224 create table TotalSales_In_Tennessee as

1225

1226 SELECT sum(quantity) as Total_Sum_by_State_ID

1227

1228 From Work.DoItForState_In_Tennessee

1229

1230

1231 ;

NOTE: Table WORK.TOTALSALES_IN_TENNESSEE created, with 1 rows and 1 columns.

1232 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1233
1234 Proc sql;
1235
1236 create table TotalSales_In_Texas as
1237
1238 SELECT sum(quantity) as Total_Sum_by_State_ID
1239
1240 From Work.DoItForState_In_Texas
1241
1242
1243 ;
NOTE: Table WORK.TOTALSALES_IN_TEXAS created, with 1 rows and 1 columns.

1244 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.00 seconds
    cpu time   0.01 seconds

1245
1246
1247 Proc sql;
1248
1249 create table TotalSales_In_Utah as
1250
1251 SELECT sum(quantity) as Total_Sum_by_State_ID
1252
1253 From Work.DoItForState_In_Utah
1254
1255
1256 ;
NOTE: Table WORK.TOTALSALES_IN_UTAH created, with 1 rows and 1 columns.

1257 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.00 seconds
    cpu time   0.01 seconds

1258

1259 Proc sql;

1260

1261 create table TotalSales_In_Vermont as

1262

1263 SELECT sum(quantity) as Total_Sum_by_State_ID

1264

1265 From Work.DoItForState_In_Vermont

1266

1267

1268 ;

NOTE: Table WORK.TOTALSALES_IN_VERMONT created, with 1 rows and 1 columns.

1269 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1270

1271

1272 Proc sql;

1273

1274 create table TotalSales_In_Virginia as

1275

1276 SELECT sum(quantity) as Total_Sum_by_State_ID

1277

1278 From Work.DoItForState_In_Virginia

1279

1280

1281 ;

NOTE: Table WORK.TOTALSALES_IN_VIRGINIA created, with 1 rows and 1 columns.

1282 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1283

1284 Proc sql;

1285

```
1286  create table TotalSales_In_Washington as
1287
1288  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1289
1290  From Work.DoItForState_In_Washington
1291
1292
1293  ;
```
NOTE: Table WORK.TOTALSALES_IN_WASHINGTON created, with 1 rows and 1 columns.

```
1294  Quit;
```
NOTE: PROCEDURE SQL used (Total process time):
 real time   0.01 seconds
 cpu time   0.01 seconds

```
1295
1296  Proc sql;
1297
1298  create table TotalSales_In_West_Virginia as
1299
1300  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1301
1302  From Work.DoItForState_In_West_Virginia
1303
1304
1305  ;
```
NOTE: Table WORK.TOTALSALES_IN_WEST_VIRGINIA created, with 1 rows and 1 columns.

```
1306  Quit;
```
NOTE: PROCEDURE SQL used (Total process time):
 real time   0.01 seconds
 cpu time   0.01 seconds

```
1307
1308  Proc sql;
1309
1310  create table TotalSales_In_Wisconsin as
1311
1312  SELECT  sum(quantity)  as  Total_Sum_by_State_ID
1313
1314  From Work. DoItForState_In_Wisconsin
1315
```

1316
1317 ;
NOTE: Table WORK.TOTALSALES_IN_WISCONSIN created, with 1 rows and 1 columns.

1318 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1319
1320 Proc sql;
1321
1322 create table TotalSales_In_Wyoming as
1323
1324 SELECT sum(quantity) as Total_Sum_by_State_ID
1325
1326 From Work.DoItForState_In_Wyoming
1327
1328
1329 ;
NOTE: Table WORK.TOTALSALES_IN_WYOMING created, with 1 rows and 1 columns.

1330 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1331
1332 Proc sql;
1333
1334 create table TotalSales_In_DC as
1335
1336 SELECT sum(quantity) as Total_Sum_by_State_ID
1337
1338 From Work.DoItForState_In_DC
1339
1340
1341 ;
NOTE: Table WORK.TOTALSALES_IN_DC created, with 1 rows and 1 columns.

1342 quit;
NOTE: PROCEDURE SQL used (Total process time):

```
     real time          0.01 seconds
     cpu time           0.00 seconds


1343
1344  data Work.Sum1_of_Sales_by_State_ID;
1345
1346  set TotalSales_In_Alabama TotalSales_In_Alaska TotalSales_In_Arizona
TotalSales_In_Arkansas
1346! TotalSales_In_California TotalSales_In_Colorado TotalSales_In_Connecticut
TotalSales_In_Delaware
1346! TotalSales_In_Florida TotalSales_In_Georgia TotalSales_In_Hawaii TotalSales_In_Idaho
1346! TotalSales_In_Ilinois TotalSales_In_Indiana TotalSales_In_Iowa TotalSales_In_Kansas
1346! TotalSales_In_Kentucky TotalSales_In_Louisiana TotalSales_In_Maine
TotalSales_In_Maryland
1346! TotalSales_In_Massachusetts TotalSales_In_Michigan TotalSales_In_Minnesota
TotalSales_In_Mississippi
1346! TotalSales_In_Missouri TotalSales_In_Montana TotalSales_In_Nebraska
TotalSales_In_Nevada
1346! TotalSales_In_New_Hampshire TotalSales_In_New_Jersey TotalSales_In_New_Mexico
TotalSales_In_New_York
1346! TotalSales_In_North_Carolina TotalSales_In_North_Dakota TotalSales_In_Ohio
TotalSales_In_Oklahoma
1346! TotalSales_In_Oregon TotalSales_In_Pennsylvania TotalSales_In_Rhode_Island
TotalSales_In_South_Carolina
1346!   TotalSales_In_South_Dakota TotalSales_In_Tennessee TotalSales_In_Texas
TotalSales_In_Utah
1346! TotalSales_In_Vermont TotalSales_In_Virginia TotalSales_In_Washington
TotalSales_In_West_Virginia
1346! TotalSales_In_Wisconsin TotalSales_In_Wyoming TotalSales_In_DC;
1347  run;
```

NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_ALABAMA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_ALASKA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_ARIZONA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_ARKANSAS.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_CALIFORNIA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_COLORADO.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_CONNECTICUT.

NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_DELAWARE.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_FLORIDA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_GEORGIA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_HAWAII.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_IDAHO.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_ILINOIS.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_INDIANA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_IOWA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_KANSAS.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_KENTUCKY.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_LOUISIANA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_MAINE.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MARYLAND.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MASSACHUSETTS.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MICHIGAN.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MINNESOTA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MISSISSIPPI.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_MISSOURI.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_MONTANA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NEBRASKA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_NEVADA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NEW_HAMPSHIRE.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NEW_JERSEY.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NEW_MEXICO.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NEW_YORK.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NORTH_CAROLINA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_NORTH_DAKOTA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_OHIO.

NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_OKLAHOMA.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_OREGON.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_PENNSYLVANIA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_RHODE_ISLAND.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_SOUTH_CAROLINA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_SOUTH_DAKOTA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_TENNESSEE.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_TEXAS.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_UTAH.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_VERMONT.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_VIRGINIA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_WASHINGTON.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_WEST_VIRGINIA.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_WISCONSIN.
NOTE: There were 1 observations read from the data set
WORK.TOTALSALES_IN_WYOMING.
NOTE: There were 1 observations read from the data set WORK.TOTALSALES_IN_DC.
NOTE: The data set WORK.SUM1_OF_SALES_BY_STATE_ID has 51 observations and 1
variables.
NOTE: DATA statement used (Total process time):
    real time   0.15 seconds
    cpu time   0.06 seconds

1348
1349
1350
1351
1352 Proc sql;
1353
1354 create table Billing_In_Alabama as
1355
1356 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1357
1358 FROM DoItForState_In_Alabama

```
1359
1360
1361  ;
NOTE: Table WORK.BILLING_IN_ALABAMA created, with 753 rows and 1 columns.

1362  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


1363  Proc sql;
1364
1365  create table TotalBilling_In_Alabama as
1366
1367  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1368
1369  From Work.Billing_In_Alabama
1370
1371
1372  ;
NOTE: Table WORK.TOTALBILLING_IN_ALABAMA created, with 1 rows and 1 columns.

1373  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


1374
1375  Proc sql;
1376
1377  create table Billing_In_Alaska as
1378
1379  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1380
1381  FROM DoItForState_In_Alaska
1382
1383
1384  ;
NOTE: Table WORK.BILLING_IN_ALASKA created, with 836 rows and 1 columns.

1385  Quit;
NOTE: PROCEDURE SQL used (Total process time):
```

```
    real time         0.01 seconds
    cpu time          0.01 seconds


1386  Proc sql;
1387
1388  create table TotalBilling_In_Alaska as
1389
1390  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1391
1392  From Work.Billing_In_Alaska
1393
1394
1395  ;
NOTE: Table WORK.TOTALBILLING_IN_ALASKA created, with 1 rows and 1 columns.

1396  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time         0.01 seconds
    cpu time          0.01 seconds


1397
1398  Proc sql;
1399
1400  create table Billing_In_Arizona as
1401
1402  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1403
1404   FROM DoItForState_In_Arizona
1405
1406
1407  ;
NOTE: Table WORK.BILLING_IN_ARIZONA created, with 272 rows and 1 columns.

1408  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time         0.01 seconds
    cpu time          0.01 seconds


1409  Proc sql;
1410
1411  create table TotalBilling_In_Arizona as
```

1412

1413 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1414

1415 From Work.Billing_In_Arizona

1416

1417

1418 ;

NOTE: Table WORK.TOTALBILLING_IN_ARIZONA created, with 1 rows and 1 columns.

1419 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1420

1421

1422

1423

1424 Proc sql;

1425

1426 create table Billing_In_Arkansas as

1427

1428 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM DoItForState_In_Arkansas

1429

1430

1431 ;

NOTE: Table WORK.BILLING_IN_ARKANSAS created, with 1334 rows and 1 columns.

1432 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1433 Proc sql;

1434

1435 create table TotalBilling_In_Arkansas as

1436

1437 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1438

1439 From Work.Billing_In_Arkansas

1440

1441

1442 ;

NOTE: Table WORK.TOTALBILLING_IN_ARKANSAS created, with 1 rows and 1 columns.

1443 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.00 seconds

1444

1445

1446

1447 Proc sql;

1448

1449 create table Billing_In_California as

1450

1451 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM DoItForState_In_California

1452

1453

1454 ;

NOTE: Table WORK.BILLING_IN_CALIFORNIA created, with 1660 rows and 1 columns.

1455 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

1456 Proc sql;

1457

1458 create table TotalBilling_In_California as

1459

1460 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1461

1462 From Work.Billing_In_California

1463

1464

1465 ;

NOTE: Table WORK.TOTALBILLING_IN_CALIFORNIA created, with 1 rows and 1 columns.

1466 Quit;

NOTE: PROCEDURE SQL used (Total process time):

```
    real time           0.01 seconds
    cpu time            0.01 seconds


1467
1468  Proc sql;
1469
1470  create table Billing_In_Colorado as
1471
1472  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)  FROM
DoItForState_In_Colorado
1473
1474
1475  ;
NOTE: Table WORK.BILLING_IN_COLORADO created, with 1403 rows and 1 columns.

1476  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time           0.01 seconds
    cpu time            0.01 seconds


1477  Proc sql;
1478
1479  create table TotalBilling_In_Colorado as
1480
1481  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1482
1483  From Work.Billing_In_Colorado
1484
1485
1486  ;
NOTE: Table WORK.TOTALBILLING_IN_COLORADO created, with 1 rows and 1 columns.

1487  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time           0.01 seconds
    cpu time            0.00 seconds


1488
1489
1490  Proc sql;
1491
```

1492 create table Billing_In_Connecticut as

1493

1494 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoItForState_In_Connecticut

1495

1496

1497 ;
NOTE: Table WORK.BILLING_IN_CONNECTICUT created, with 831 rows and 1 columns.

1498 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

1499 Proc sql;

1500

1501 create table TotalBilling_In_Connecticut as

1502

1503 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1504

1505 From Work.Billing_In_Connecticut

1506

1507

1508 ;
NOTE: Table WORK.TOTALBILLING_IN_CONNECTICUT created, with 1 rows and 1 columns.

1509 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

1510

1511

1512 Proc sql;

1513

1514 create table Billing_In_Delaware as

1515

1516 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate) FROM
DoItForState_In_Delaware

1517

1518

1519 ;

NOTE: Table WORK.BILLING_IN_DELAWARE created, with 1644 rows and 1 columns.

1520 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1521 Proc sql;
1522
1523 create table TotalBilling_In_Delaware as
1524
1525 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
1526
1527 From Work.Billing_In_Delaware
1528
1529
1530 ;
NOTE: Table WORK.TOTALBILLING_IN_DELAWARE created, with 1 rows and 1 columns.

1531 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1532
1533 Proc sql;
1534
1535 create table Billing_In_Florida as
1536
1537 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1538 FROM DoItForState_In_Florida
1539
1540
1541 ;
NOTE: Table WORK.BILLING_IN_FLORIDA created, with 1101 rows and 1 columns.

1542 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1543  Proc sql;

1544

1545  create table TotalBilling_In_Florida as

1546

1547  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID

1548

1549  From Work.Billing_In_Florida

1550

1551

1552  ;
NOTE: Table WORK.TOTALBILLING_IN_FLORIDA created, with 1 rows and 1 columns.

1553  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


1554

1555

1556

1557  Proc sql;

1558

1559  create table Billing_In_Georgia as

1560

1561  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1562  FROM DoItForState_In_Georgia

1563

1564

1565  ;
NOTE: Table WORK.BILLING_IN_GEORGIA created, with 860 rows and 1 columns.

1566  Quit;
NOTE: PROCEDURE SQL used (Total process time):
     real time          0.01 seconds
     cpu time           0.01 seconds


1567  Proc sql;

1568

1569  create table TotalBilling_In_Georgia as

1570

1571  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID

1572
```

1573 From Work.Billing_In_Georgia
1574
1575
1576 ;
NOTE: Table WORK.TOTALBILLING_IN_GEORGIA created, with 1 rows and 1 columns.

1577 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

1578
1579 Proc sql;
1580
1581 create table Billing_In_Hawaii as
1582
1583 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1584 FROM DoItForState_In_Hawaii
1585
1586
1587 ;
NOTE: Table WORK.BILLING_IN_HAWAII created, with 1105 rows and 1 columns.

1588 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.00 seconds
      cpu time   0.00 seconds

1589 Proc sql;
1590
1591 create table TotalBilling_In_Hawaii as
1592
1593 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
1594
1595 From Work.Billing_In_Hawaii
1596
1597
1598 ;
NOTE: Table WORK.TOTALBILLING_IN_HAWAII created, with 1 rows and 1 columns.

1599 Quit;
NOTE: PROCEDURE SQL used (Total process time):

```
      real time          0.01 seconds
      cpu time           0.00 seconds


1600
1601
1602
1603  Proc sql;
1604
1605  create table Billing_In_Idaho as
1606
1607  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1608  FROM DoItForState_In_Idaho
1609
1610
1611  ;
NOTE: Table WORK.BILLING_IN_IDAHO created, with 547 rows and 1 columns.

1612  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.00 seconds


1613  Proc sql;
1614
1615  create table TotalBilling_In_Idaho as
1616
1617  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1618
1619  From Work.Billing_In_Idaho
1620
1621
1622  ;
NOTE: Table WORK.TOTALBILLING_IN_IDAHO created, with 1 rows and 1 columns.

1623  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.00 seconds


1624
1625  Proc sql;
```

```
1626
1627  create table Billing_In_Illinois as
1628
1629  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1630  FROM DoItForState_In_Ilinois
1631
1632
1633  ;
NOTE: Table WORK.BILLING_IN_ILLINOIS created, with 576 rows and 1 columns.

1634  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time          0.01 seconds
    cpu time           0.00 seconds


1635  Proc sql;
1636
1637  create table TotalBilling_In_Illinois as
1638
1639  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1640
1641  From Work.Billing_In_Illinois
1642
1643
1644  ;
NOTE: Table WORK.TOTALBILLING_IN_ILLINOIS created, with 1 rows and 1 columns.

1645  Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time          0.01 seconds
    cpu time           0.01 seconds


1646
1647
1648  Proc sql;
1649
1650  create table Billing_In_Indiana as
1651
1652  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1653  FROM DoItForState_In_Indiana
1654
1655
```

1656 ;
NOTE: Table WORK.BILLING_IN_INDIANA created, with 2738 rows and 1 columns.

1657 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

1658 Proc sql;
1659
1660 create table TotalBilling_In_Indiana as
1661
1662 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
1663
1664 From Work.Billing_In_Indiana
1665
1666
1667 ;
NOTE: Table WORK.TOTALBILLING_IN_INDIANA created, with 1 rows and 1 columns.

1668 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1669
1670 Proc sql;
1671
1672 create table Billing_In_Iowa as
1673
1674 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1675 FROM DoItForState_In_Iowa
1676
1677
1678 ;
NOTE: Table WORK.BILLING_IN_IOWA created, with 1435 rows and 1 columns.

1679 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1680  Proc sql;
1681
1682  create table TotalBilling_In_Iowa as
1683
1684  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1685
1686  From Work.Billing_In_Iowa
1687
1688
1689  ;
```
NOTE: Table WORK.TOTALBILLING_IN_IOWA created, with 1 rows and 1 columns.

```
1690  Quit;
```
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

```
1691
1692  Proc sql;
1693
1694  create table Billing_In_Kansas as
1695
1696  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1697  FROM DoItForState_In_Kansas
1698
1699
1700  ;
```
NOTE: Table WORK.BILLING_IN_KANSAS created, with 1916 rows and 1 columns.

```
1701  Quit;
```
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

```
1702  Proc sql;
1703
1704  create table TotalBilling_In_Kansas as
1705
1706  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1707
1708  From Work.Billing_In_Kansas
```

1709

1710

1711 ;

NOTE: Table WORK.TOTALBILLING_IN_KANSAS created, with 1 rows and 1 columns.

1712 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

1713

1714 Proc sql;

1715

1716 create table Billing_In_Kentucky as

1717

1718 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1719 FROM DoItForState_In_Kentucky

1720

1721

1722 ;

NOTE: Table WORK.BILLING_IN_KENTUCKY created, with 547 rows and 1 columns.

1723 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.02 seconds

    cpu time   0.00 seconds

1724 Proc sql;

1725

1726 create table TotalBilling_In_Kentucky as

1727

1728 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1729

1730 From Work.Billing_In_Kentucky

1731

1732

1733 ;

NOTE: Table WORK.TOTALBILLING_IN_KENTUCKY created, with 1 rows and 1 columns.

1734 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

```
        cpu time          0.00 seconds


1735
1736
1737
1738  Proc sql;
1739
1740  create table Billing_In_Louisiana as
1741
1742  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1743  FROM DoItForState_In_Louisiana
1744
1745
1746  ;
NOTE: Table WORK.BILLING_IN_LOUISIANA created, with 766 rows and 1 columns.

1747  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time         0.00 seconds
      cpu time          0.00 seconds


1748  Proc sql;
1749
1750  create table TotalBilling_In_Louisiana as
1751
1752  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1753
1754  From Work.Billing_In_Louisiana
1755
1756
1757  ;
NOTE: Table WORK.TOTALBILLING_IN_LOUISIANA created, with 1 rows and 1 columns.

1758  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time         0.01 seconds
      cpu time          0.01 seconds


1759
1760
1761
```

1762

1763 Proc sql;

1764

1765 create table Billing_In_Maine as

1766

1767 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1768 FROM DoItForState_In_Maine

1769

1770

1771 ;

NOTE: Table WORK.BILLING_IN_MAINE created, with 2211 rows and 1 columns.

1772 Quit;

NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.00 seconds

1773 Proc sql;

1774

1775 create table TotalBilling_In_Maine as

1776

1777 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1778

1779 From Work.Billing_In_Maine

1780

1781

1782 ;

NOTE: Table WORK.TOTALBILLING_IN_MAINE created, with 1 rows and 1 columns.

1783 Quit;

NOTE: PROCEDURE SQL used (Total process time):
      real time   0.00 seconds
      cpu time   0.01 seconds

1784

1785 Proc sql;

1786

1787 create table Billing_In_Maryland as

1788

1789 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1790 FROM DoItForState_In_Maryland

1791

1792

1793 ;

NOTE: Table WORK.BILLING_IN_MARYLAND created, with 552 rows and 1 columns.

1794 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.01 seconds

1795 Proc sql;

1796

1797 create table TotalBilling_In_Maryland as

1798

1799 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1800

1801 From Work.Billing_In_Maryland

1802

1803

1804 ;

NOTE: Table WORK.TOTALBILLING_IN_MARYLAND created, with 1 rows and 1 columns.

1805 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.00 seconds

1806

1807 Proc sql;

1808

1809 create table Billing_In_Massachusetts as

1810

1811 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1812 FROM DoItForState_In_Massachusetts

1813

1814

1815 ;

NOTE: Table WORK.BILLING_IN_MASSACHUSETTS created, with 541 rows and 1 columns.

1816 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.00 seconds

1817 Proc sql;

1818

1819 create table TotalBilling_In_Massachusetts as

1820

1821 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1822

1823 From Work.Billing_In_Massachusetts

1824

1825

1826 ;

NOTE: Table WORK.TOTALBILLING_IN_MASSACHUSETTS created, with 1 rows and 1 columns.

1827 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1828

1829 Proc sql;

1830

1831 create table Billing_In_Michigan as

1832

1833 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1834 FROM DoItForState_In_Michigan

1835

1836

1837 ;

NOTE: Table WORK.BILLING_IN_MICHIGAN created, with 2774 rows and 1 columns.

1838 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1839 Proc sql;

1840

1841 create table TotalBilling_In_Michigan as

1842

1843 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1844

1845 From Work.Billing_In_Michigan

1846

1847

1848 ;

NOTE: Table WORK.TOTALBILLING_IN_MICHIGAN created, with 1 rows and 1 columns.

1849 Quit;

NOTE: PROCEDURE SQL used (Total process time):
     real time   0.01 seconds
     cpu time   0.01 seconds

1850

1851 Proc sql;

1852

1853 create table Billing_In_Minnesota as

1854

1855 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

1856 FROM DoItForState_In_Minnesota

1857

1858

1859 ;

NOTE: Table WORK.BILLING_IN_MINNESOTA created, with 535 rows and 1 columns.

1860 Quit;

NOTE: PROCEDURE SQL used (Total process time):
     real time   0.01 seconds
     cpu time   0.01 seconds

1861 Proc sql;

1862

1863 create table TotalBilling_In_Minnesota as

1864

1865 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

1866

1867 From Work.Billing_In_Minnesota

1868

1869

1870 ;

NOTE: Table WORK.TOTALBILLING_IN_MINNESOTA created, with 1 rows and 1 columns.

1871 Quit;

NOTE: PROCEDURE SQL used (Total process time):
  real time   0.01 seconds
  cpu time   0.01 seconds

1872
1873 Proc sql;
1874
1875 create table Billing_In_Mississippi as
1876
1877 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1878 FROM DoItForState_In_Mississippi
1879
1880
1881 ;
NOTE: Table WORK.BILLING_IN_MISSISSIPPI created, with 524 rows and 1 columns.

1882 Quit;
NOTE: PROCEDURE SQL used (Total process time):
  real time   0.01 seconds
  cpu time   0.01 seconds

1883 Proc sql;
1884
1885 create table TotalBilling_In_Mississippi as
1886
1887 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
1888
1889 From Work.Billing_In_Mississippi
1890
1891
1892 ;
NOTE: Table WORK.TOTALBILLING_IN_MISSISSIPPI created, with 1 rows and 1 columns.

1893 Quit;
NOTE: PROCEDURE SQL used (Total process time):
  real time   0.01 seconds
  cpu time   0.01 seconds

1894
1895 Proc sql;
1896

```
1897  create table Billing_In_Missouri as
1898
1899  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1900  FROM DoItForState_In_Missouri
1901
1902
1903  ;
NOTE: Table WORK.BILLING_IN_MISSOURI created, with 1707 rows and 1 columns.

1904  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


1905  Proc sql;
1906
1907  create table TotalBilling_In_Missouri as
1908
1909  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1910
1911  From Work.Billing_In_Missouri
1912
1913
1914  ;
NOTE: Table WORK.TOTALBILLING_IN_MISSOURI created, with 1 rows and 1 columns.

1915  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


1916
1917
1918
1919  Proc sql;
1920
1921  create table Billing_In_Montana as
1922
1923  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1924  FROM DoItForState_In_Montana
1925
1926
```

1927 ;
NOTE: Table WORK.BILLING_IN_MONTANA created, with 847 rows and 1 columns.

1928 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1929 Proc sql;
1930
1931 create table TotalBilling_In_Montana as
1932
1933 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
1934
1935 From Work.Billing_In_Montana
1936
1937
1938 ;
NOTE: Table WORK.TOTALBILLING_IN_MONTANA created, with 1 rows and 1 columns.

1939 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

1940
1941
1942
1943 Proc sql;
1944
1945 create table Billing_In_Nebraska as
1946
1947 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
1948 FROM DoItForState_In_Nebraska
1949
1950
1951 ;
NOTE: Table WORK.BILLING_IN_NEBRASKA created, with 872 rows and 1 columns.

1952 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds

```
          cpu time          0.01 seconds


1953  Proc sql;
1954
1955  create table TotalBilling_In_Nebraska as
1956
1957  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1958
1959  From Work.Billing_In_Nebraska
1960
1961
1962  ;
NOTE: Table WORK.TOTALBILLING_IN_NEBRASKA created, with 1 rows and 1 columns.

1963  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time          0.01 seconds


1964
1965
1966
1967  Proc sql;
1968
1969  create table Billing_In_Nevada as
1970
1971  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1972  FROM DoItForState_In_Nevada
1973
1974
1975  ;
NOTE: Table WORK.BILLING_IN_NEVADA created, with 1692 rows and 1 columns.

1976  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


1977  Proc sql;
1978
1979  create table TotalBilling_In_Nevada as
```

```
1980
1981  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
1982
1983  From Work.Billing_In_Nevada
1984
1985
1986  ;
NOTE: Table WORK.TOTALBILLING_IN_NEVADA created, with 1 rows and 1 columns.

1987  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


1988
1989  Proc sql;
1990
1991  create table Billing_In_New_Hampshire as
1992
1993  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
1994  FROM DoItForState_In_New_Hampshire
1995
1996
1997  ;
NOTE: Table WORK.BILLING_IN_NEW_HAMPSHIRE created, with 290 rows and 1 columns.

1998  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds


1999  Proc sql;
2000
2001  create table TotalBilling_In_New_Hampshire as
2002
2003  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
2004
2005  From Work.Billing_In_New_Hampshire
2006
2007
2008  ;
```

NOTE: Table WORK.TOTALBILLING_IN_NEW_HAMPSHIRE created, with 1 rows and 1 columns.

2009 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

2010
2011 Proc sql;
2012
2013 create table Billing_In_New_Jersey as
2014
2015 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2016 FROM DoItForState_In_New_Jersey
2017
2018
2019 ;
NOTE: Table WORK.BILLING_IN_NEW_JERSEY created, with 574 rows and 1 columns.

2020 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.01 seconds

2021 Proc sql;
2022
2023 create table TotalBilling_In_New_Jersey as
2024
2025 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
2026
2027 From Work.Billing_In_New_Jersey
2028
2029
2030 ;
NOTE: Table WORK.TOTALBILLING_IN_NEW_JERSEY created, with 1 rows and 1 columns.

2031 Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time   0.01 seconds
      cpu time   0.00 seconds

```
2032
2033  Proc sql;
2034
2035  create table Billing_In_New_Mexico as
2036
2037  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
2038  FROM DoItForState_In_New_Mexico
2039
2040
2041  ;
NOTE: Table WORK.BILLING_IN_NEW_MEXICO created, with 1147 rows and 1 columns.

2042  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


2043  Proc sql;
2044
2045  create table TotalBilling_In_New_Mexico  as
2046
2047  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
2048
2049  From Work.Billing_In_New_Mexico
2050
2051
2052  ;
NOTE: Table WORK.TOTALBILLING_IN_NEW_MEXICO created, with 1 rows and 1 columns.

2053  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.01 seconds


2054
2055  Proc sql;
2056
2057  create table Billing_In_New_York as
2058
2059  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
2060  FROM DoItForState_In_New_York
```

2061

2062

2063 ;
NOTE: Table WORK.BILLING_IN_NEW_YORK created, with 840 rows and 1 columns.

2064 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2065 Proc sql;

2066

2067 create table TotalBilling_In_New_York as

2068

2069 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2070

2071 From Work.Billing_In_New_York

2072

2073

2074 ;
NOTE: Table WORK.TOTALBILLING_IN_NEW_YORK created, with 1 rows and 1 columns.

2075 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

2076

2077

2078 Proc sql;

2079

2080 create table Billing_In_North_Carolina as

2081

2082 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2083 FROM DoItForState_In_North_Carolina

2084

2085

2086 ;
NOTE: Table WORK.BILLING_IN_NORTH_CAROLINA created, with 1359 rows and 1 columns.

2087 Quit;
NOTE: PROCEDURE SQL used (Total process time):

```
      real time          0.01 seconds
      cpu time           0.00 seconds


2088  Proc sql;
2089
2090  create table TotalBilling_In_North_Carolina as
2091
2092  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
2093
2094  From Work.Billing_In_North_Carolina
2095
2096
2097  ;
NOTE: Table WORK.TOTALBILLING_IN_NORTH_CAROLINA created, with 1 rows and 1
columns.

2098  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.01 seconds
      cpu time           0.00 seconds


2099
2100  Proc sql;
2101
2102  create table Billing_In_North_Dakota as
2103
2104  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
2105  FROM DoItForState_In_North_Dakota
2106
2107
2108  ;
NOTE: Table WORK.BILLING_IN_NORTH_DAKOTA created, with 574 rows and 1 columns.

2109  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          0.00 seconds
      cpu time           0.00 seconds


2110  Proc sql;
2111
2112  create table TotalBilling_In_North_Dakota as
```

2113

2114 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2115

2116 From Work.Billing_In_North_Dakota

2117

2118

2119 ;

NOTE: Table WORK.TOTALBILLING_IN_NORTH_DAKOTA created, with 1 rows and 1 columns.

2120 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.00 seconds

2121

2122 Proc sql;

2123

2124 create table Billing_In_Ohio as

2125

2126 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2127 FROM DoItForState_In_Ohio

2128

2129

2130 ;

NOTE: Table WORK.BILLING_IN_OHIO created, with 271 rows and 1 columns.

2131 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.00 seconds

2132 Proc sql;

2133

2134 create table TotalBilling_In_Ohio as

2135

2136 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2137

2138 From Work.Billing_In_Ohio

2139

2140

2141 ;

NOTE: Table WORK.TOTALBILLING_IN_OHIO created, with 1 rows and 1 columns.

2142 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.00 seconds
    cpu time   0.00 seconds

2143
2144 Proc sql;
2145
2146 create table Billing_In_Oklahoma as
2147
2148 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2149 FROM DoItForState_In_Oklahoma
2150
2151
2152 ;
NOTE: Table WORK.BILLING_IN_OKLAHOMA created, with 1446 rows and 1 columns.

2153 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

2154 Proc sql;
2155
2156 create table TotalBilling_In_Oklahoma as
2157
2158 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
2159
2160 From Work.Billing_In_Oklahoma
2161
2162
2163 ;
NOTE: Table WORK.TOTALBILLING_IN_OKLAHOMA created, with 1 rows and 1 columns.

2164 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2165

2166 Proc sql;

2167

2168 create table Billing_In_Oregon as

2169

2170 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2171 FROM DoItForState_In_Oregon

2172

2173

2174 ;

NOTE: Table WORK.BILLING_IN_OREGON created, with 1081 rows and 1 columns.

2175 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2176 Proc sql;

2177

2178 create table TotalBilling_In_Oregon as

2179

2180 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2181

2182 From Work.Billing_In_Oregon

2183

2184

2185 ;

NOTE: Table WORK.TOTALBILLING_IN_OREGON created, with 1 rows and 1 columns.

2186 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2187

2188

2189

2190 Proc sql;

2191

2192 create table Billing_In_Pennsylvania as

2193

2194 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2195 FROM DoItForState_In_Pennsylvania

2196

2197

2198 ;

NOTE: Table WORK.BILLING_IN_PENNSYLVANIA created, with 1128 rows and 1 columns.

2199 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2200 Proc sql;

2201

2202 create table TotalBilling_In_Pennsylvania as

2203

2204 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2205

2206 From Work.Billing_In_Pennsylvania

2207

2208

2209 ;

NOTE: Table WORK.TOTALBILLING_IN_PENNSYLVANIA created, with 1 rows and 1 columns.

2210 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2211

2212 Proc sql;

2213

2214 create table Billing_In_Rhode_Island as

2215

2216 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2217 FROM DoItForState_In_Rhode_Island

2218 ;

NOTE: Table WORK.BILLING_IN_RHODE_ISLAND created, with 1412 rows and 1 columns.

2219 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2220 Proc sql;

2221

2222

2223 create table TotalBilling_In_Rhode_Island as

2224

2225 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2226

2227 From Work.Billing_In_Rhode_Island

2228

2229

2230 ;

NOTE: Table WORK.TOTALBILLING_IN_RHODE_ISLAND created, with 1 rows and 1 columns.

2231 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2232

2233 Proc sql;

2234

2235 create table Billing_In_South_Carolina as

2236

2237 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2238 FROM DoItForState_In_South_Carolina

2239

2240

2241

2242 ;

NOTE: Table WORK.BILLING_IN_SOUTH_CAROLINA created, with 2246 rows and 1 columns.

2243 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2244 Proc sql;

2245

2246 create table TotalBilling_In_South_Carolina as

2247

2248 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2249

2250 From Work.Billing_In_South_Carolina

2251

2252

2253 ;

NOTE: Table WORK.TOTALBILLING_IN_SOUTH_CAROLINA created, with 1 rows and 1 columns.

2254 Quit;

NOTE: PROCEDURE SQL used (Total process time):

  real time   0.01 seconds

  cpu time   0.01 seconds

2255

2256

2257

2258 Proc sql;

2259

2260 create table Billing_In_South_Dakota as

2261

2262 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2263 FROM DoItForState_In_South_Dakota

2264

2265

2266 ;

NOTE: Table WORK.BILLING_IN_SOUTH_DAKOTA created, with 267 rows and 1 columns.

2267 Quit;

NOTE: PROCEDURE SQL used (Total process time):

  real time   0.00 seconds

  cpu time   0.01 seconds

2268

2269 Proc sql;

2270

2271 create table TotalBilling_In_South_Dakota as

2272

2273 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2274

2275 From Billing_In_South_Dakota

2276

2277
2278 ;
NOTE: Table WORK.TOTALBILLING_IN_SOUTH_DAKOTA created, with 1 rows and 1 columns.

2279 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2280
2281 Proc sql;
2282
2283 create table Billing_In_Tennessee as
2284
2285 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2286 FROM DoItForState_In_Tennessee
2287
2288
2289 ;
NOTE: Table WORK.BILLING_IN_TENNESSEE created, with 1087 rows and 1 columns.

2290 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2291
2292
2293 Proc sql;
2294 create table TotalBilling_In_Tennessee as
2295
2296 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
2297
2298 From Work.Billing_In_Tennessee
2299
2300 ;
NOTE: Table WORK.TOTALBILLING_IN_TENNESSEE created, with 1 rows and 1 columns.

2301 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds

```
           cpu time         0.01 seconds


2302
2303
2304
2305  Proc sql;
2306
2307  create table Billing_In_Texas as
2308
2309  SELECT PriceOut*quantity * (1-discount)  * (1-state_tax_rate)
2310  FROM DoItForState_In_Texas
2311
2312
2313  ;
NOTE: Table WORK.BILLING_IN_TEXAS created, with 255 rows and 1 columns.

2314  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time         0.01 seconds
      cpu time          0.01 seconds


2315
2316
2317  Proc sql;
2318
2319  create table TotalBilling_In_Texas as
2320
2321  SELECT  sum(_TEMA001)  as TotalBilling_BY_StateID
2322
2323  From Work.Billing_In_Texas
2324
2325
2326  ;
NOTE: Table WORK.TOTALBILLING_IN_TEXAS created, with 1 rows and 1 columns.

2327  Quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time         0.01 seconds
      cpu time          0.00 seconds


2328
```

2329 Proc sql;

2330

2331 create table Billing_In_Utah as

2332

2333 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2334 FROM DoItForState_In_Utah

2335

2336

2337 ;

NOTE: Table WORK.BILLING_IN_UTAH created, with 1076 rows and 1 columns.

2338 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.00 seconds

2339

2340

2341

2342 Proc sql;

2343

2344 create table TotalBilling_In_Utah as

2345

2346 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2347

2348 From Work.Billing_In_Utah

2349

2350

2351 ;

NOTE: Table WORK.TOTALBILLING_IN_UTAH created, with 1 rows and 1 columns.

2352 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2353

2354 Proc sql;

2355

2356 create table Billing_In_Vermont as

2357

2358 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2359 FROM DoItForState_In_Vermont

2360

2361

2362

2363

2364 ;

NOTE: Table WORK.BILLING_IN_VERMONT created, with 1112 rows and 1 columns.

2365 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2366

2367 Proc sql;

2368

2369 create table TotalBilling_In_Vermont as

2370

2371 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2372

2373 From Work.Billing_In_Vermont

2374

2375

2376 ;

NOTE: Table WORK.TOTALBILLING_IN_VERMONT created, with 1 rows and 1 columns.

2377 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2378

2379 Proc sql;

2380

2381 create table Billing_In_Virginia as

2382

2383 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2384 FROM DoItForState_In_Virginia

2385

2386

2387

2388 ;

NOTE: Table WORK.BILLING_IN_VIRGINIA created, with 1174 rows and 1 columns.

2389 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2390
2391 Proc sql;
2392
2393 create table TotalBilling_In_Virginia as
2394
2395 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
2396
2397 From Work.Billing_In_Virginia
2398
2399
2400 ;
NOTE: Table WORK.TOTALBILLING_IN_VIRGINIA created, with 1 rows and 1 columns.

2401 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.00 seconds

2402
2403 Proc sql;
2404
2405 create table Billing_In_Washington as
2406
2407 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2408 FROM DoItForState_In_Washington
2409
2410
2411
2412 ;
NOTE: Table WORK.BILLING_IN_WASHINGTON created, with 1937 rows and 1 columns.

2413 Quit;
NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2414

2415 Proc sql;

2416

2417 create table TotalBilling_In_Washington as

2418

2419 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2420

2421 From Work.Billing_In_Washington

2422

2423

2424 ;

NOTE: Table WORK.TOTALBILLING_IN_WASHINGTON created, with 1 rows and 1 columns.

2425 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.01 seconds

2426

2427 Proc sql;

2428

2429 create table Billing_In_West_Virginia as

2430

2431 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2432 FROM DoItForState_In_West_Virginia

2433

2434

2435

2436 ;

NOTE: Table WORK.BILLING_IN_WEST_VIRGINIA created, with 836 rows and 1 columns.

2437 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2438

2439 Proc sql;

2440

2441 create table TotalBilling_In_West_Virginia as

2442

2443 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2444

2445 From Work.Billing_In_West_Virginia

2446

2447

2448 ;

NOTE: Table WORK.TOTALBILLING_IN_WEST_VIRGINIA created, with 1 rows and 1 columns.

2449 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.00 seconds
    cpu time   0.01 seconds

2450

2451

2452 Proc sql;

2453

2454 create table Billing_In_Wisconsin as

2455

2456 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2457 FROM DoItForState_In_Wisconsin

2458

2459

2460

2461 ;

NOTE: Table WORK.BILLING_IN_WISCONSIN created, with 841 rows and 1 columns.

2462 Quit;

NOTE: PROCEDURE SQL used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2463

2464 Proc sql;

2465

2466 create table TotalBilling_In_Wisconsin as

2467

2468 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2469

2470 From Work.Billing_In_Wisconsin

2471

2472

2473 ;

NOTE: Table WORK.TOTALBILLING_IN_WISCONSIN created, with 1 rows and 1 columns.

2474 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.01 seconds

    cpu time   0.01 seconds

2475

2476 Proc sql;

2477

2478 create table Billing_In_Wyoming as

2479

2480 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)

2481 FROM DoItForState_In_Wyoming

2482

2483

2484

2485 ;

NOTE: Table WORK.BILLING_IN_WYOMING created, with 1400 rows and 1 columns.

2486 Quit;

NOTE: PROCEDURE SQL used (Total process time):

    real time   0.00 seconds

    cpu time   0.01 seconds

2487

2488

2489 Proc sql;

2490

2491 create table TotalBilling_In_Wyoming as

2492

2493 SELECT sum(_TEMA001) as TotalBilling_BY_StateID

2494

2495 From Work.Billing_In_Wyoming

2496

2497

2498 ;

NOTE: Table WORK.TOTALBILLING_IN_WYOMING created, with 1 rows and 1 columns.

2499 Quit;

2500
2501
2502 Proc sql;
2503
2504 create table Billing_In_DC as
2505
2506 SELECT PriceOut*quantity * (1-discount) * (1-state_tax_rate)
2507
2508 FROM DoItForState_In_DC
2509
2510
2511 ;
NOTE: Table WORK.BILLING_IN_DC created, with 535 rows and 1 columns.

2512 Quit;

2513 Proc sql;
2514
2515 create table TotalBilling_In_DC as
2516
2517 SELECT sum(_TEMA001) as TotalBilling_BY_StateID
2518
2519 From Work.Billing_In_DC
2520
2521
2522 ;
NOTE: Table WORK.TOTALBILLING_IN_DC created, with 1 rows and 1 columns.

2523 Quit;

2524

```
2525
2526
2527
2528
2529
2530
2531
2532  data Work.S_of_Billing_by_State_ID;
2533
2534  set TotalBilling_In_Alabama TotalBilling_In_Alaska TotalBilling_In_Arizona
TotalBilling_In_Arkansas
2534! TotalBilling_In_California TotalBilling_In_Colorado TotalBilling_In_Connecticut
TotalBilling_In_Delaware
2534!  TotalBilling_In_Florida TotalBilling_In_Georgia TotalBilling_In_Hawaii
TotalBilling_In_Idaho
2534! TotalBilling_In_Illinois TotalBilling_In_Indiana TotalBilling_In_Iowa TotalBilling_In_Kansas
2534! TotalBilling_In_Kentucky TotalBilling_In_Louisiana TotalBilling_In_Maine
TotalBilling_In_Maryland
2534! TotalBilling_In_Massachusetts TotalBilling_In_Michigan TotalBilling_In_Minnesota
2534! TotalBilling_In_Mississippi TotalBilling_In_Missouri TotalBilling_In_Montana
TotalBilling_In_Nebraska
2534! TotalBilling_In_Nevada TotalBilling_In_New_Hampshire TotalBilling_In_New_Jersey
2534! TotalBilling_In_New_Mexico TotalBilling_In_New_York TotalBilling_In_North_Carolina
2534! TotalBilling_In_North_Dakota TotalBilling_In_Ohio TotalBilling_In_Oklahoma
TotalBilling_In_Oregon
2534! TotalBilling_In_Pennsylvania TotalBilling_In_Rhode_Island
TotalBilling_In_South_Carolina
2534! TotalBilling_In_South_Dakota TotalBilling_In_Tennessee TotalBilling_In_Texas
TotalBilling_In_Utah
2534! TotalBilling_In_Vermont TotalBilling_In_Virginia TotalBilling_In_Washington
2534! TotalBilling_In_West_Virginia TotalBilling_In_Wisconsin TotalBilling_In_Wyoming
TotalBilling_In_DC;
2535  run;

NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_ALABAMA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_ALASKA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_ARIZONA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_ARKANSAS.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_CALIFORNIA.
```

NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_COLORADO.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_CONNECTICUT.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_DELAWARE.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_FLORIDA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_GEORGIA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_HAWAII.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_IDAHO.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_ILLINOIS.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_INDIANA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_IOWA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_KANSAS.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_KENTUCKY.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_LOUISIANA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_MAINE.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MARYLAND.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MASSACHUSETTS.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MICHIGAN.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MINNESOTA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MISSISSIPPI.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MISSOURI.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_MONTANA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_NEBRASKA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_NEVADA.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_NEW_HAMPSHIRE.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_NEW_JERSEY.
NOTE: There were 1 observations read from the data set
WORK.TOTALBILLING_IN_NEW_MEXICO.

NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_NEW_YORK.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_NORTH_CAROLINA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_NORTH_DAKOTA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_OHIO.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_OKLAHOMA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_OREGON.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_PENNSYLVANIA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_RHODE_ISLAND.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_SOUTH_CAROLINA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_SOUTH_DAKOTA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_TENNESSEE.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_TEXAS.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_UTAH.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_VERMONT.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_VIRGINIA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_WASHINGTON.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_WEST_VIRGINIA.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_WISCONSIN.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_WYOMING.
NOTE: There were 1 observations read from the data set WORK.TOTALBILLING_IN_DC.
NOTE: The data set WORK.S_OF_BILLING_BY_STATE_ID has 51 observations and 1 variables.
NOTE: DATA statement used (Total process time):
      real time   0.05 seconds
      cpu time   0.04 seconds

```
2537   proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\States.xlsx'
2538    out = Sheet1
2539    dbms = xlsx
2540     replace
2541     ;
2542     sheet = "Sheet1";
2543    run;
```

NOTE: Variable Name Change. Alphabetical Order -> Alphabetical_Order
NOTE: One or more variables were converted because the data type is not supported by the V9 engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 51 observations and 1 variables.
NOTE: WORK.SHEET1 data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   0.03 seconds
    cpu time   0.01 seconds


```
2544
2545
2546
2547  data Work.Billing_Sum_by_State_In_Dollars;
2548
2549  merge Work.S_of_Billing_by_State_ID Work.Sheet1;
2550  run;
```

NOTE: There were 51 observations read from the data set
WORK.S_OF_BILLING_BY_STATE_ID.
NOTE: There were 51 observations read from the data set WORK.SHEET1.
NOTE: The data set WORK.BILLING_SUM_BY_STATE_IN_DOLLARS has 51 observations and 2 variables.
NOTE: DATA statement used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds


```
2551
2552  data Work.Quantity_of_Sales_by_State;
2553
2554  merge Work.Sum1_of_Sales_by_State_ID Work.Sheet1;
2555  run;
```

NOTE: There were 51 observations read from the data set
WORK.SUM1_OF_SALES_BY_STATE_ID.
NOTE: There were 51 observations read from the data set WORK.SHEET1.
NOTE: The data set WORK.QUANTITY_OF_SALES_BY_STATE has 51 observations and 2
variables.
NOTE: DATA statement used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

2536
2537   proc import datafile = '\\msfs-03.grove.ad.uconn.edu\home\stg19003\Desktop\States.xlsx'
2538   out = Sheet1
2539   dbms = xlsx
2540   replace
2541   ;
2542   sheet = "Sheet1";
2543   run;

NOTE: Variable Name Change. Alphabetical Order -> Alphabetical_Order
NOTE: One or more variables were converted because the data type is not supported by the V9
engine. For more
    details, run with options MSGLEVEL=I.
NOTE: The import data set has 51 observations and 1 variables.
NOTE: WORK.SHEET1 data set was successfully created.
NOTE: PROCEDURE IMPORT used (Total process time):
    real time   0.03 seconds
    cpu time   0.01 seconds

2544
2545
2546
2547 data Work.Billing_Sum_by_State_In_Dollars;
2548
2549 merge Work.S_of_Billing_by_State_ID Work.Sheet1;
2550 run;

NOTE: There were 51 observations read from the data set
WORK.S_OF_BILLING_BY_STATE_ID.
NOTE: There were 51 observations read from the data set WORK.SHEET1.
NOTE: The data set WORK.BILLING_SUM_BY_STATE_IN_DOLLARS has 51 observations
and 2 variables.
NOTE: DATA statement used (Total process time):

2551
2552 data Work.Quantity_of_Sales_by_State;
2553
2554 merge Work.Sum1_of_Sales_by_State_ID Work.Sheet1;
2555 run;

NOTE: There were 51 observations read from the data set
WORK.SUM1_OF_SALES_BY_STATE_ID.
NOTE: There were 51 observations read from the data set WORK.SHEET1.
NOTE: The data set WORK.QUANTITY_OF_SALES_BY_STATE has 51 observations and 2
variables.
NOTE: DATA statement used (Total process time):
    real time   0.01 seconds
    cpu time   0.01 seconds

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

Total_Sum_by_State_ID	Alphabetical Order	STID
2653	Alabama	1
2938	Alaska	2
960	Arizona	3
4658	Arkansas	4
5782	California	5
4944	Colorado	6
2935	Connecticut	7
5764	Delaware	8
3834	Florida	9
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
1853	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
5147	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	Iowa	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.