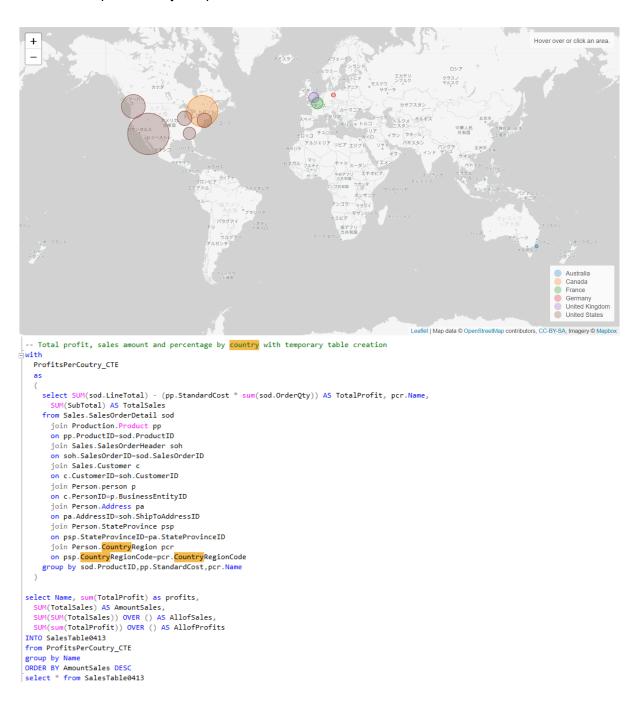
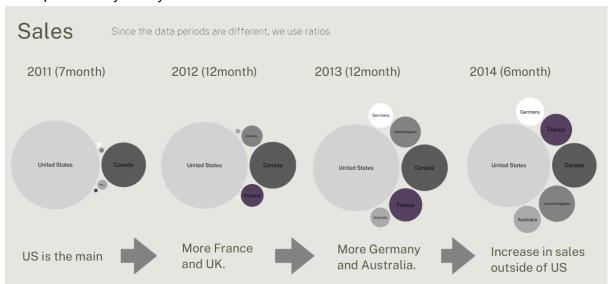
### Total Sales per Country Graphic:



81 % -									
	Results 🗐 Mess	ages							
	Name	profits	AmountSales	AllofSales	AllofProfits				
1	Germany	1043016.692585	82132318.2634	2596470456.6774	9371903.626388				
2	United States	2365311.347223	1642280462.1544	2596470456.6774	9371903.626388				
3	Australia	3434255.379017	62787466.093	2596470456.6774	9371903.626388				
4	United Kingdom	1231909.123075	166106655.2007	2596470456.6774	9371903.626388				
5	Canada	404316.404762	467438111.0662	2596470456.6774	9371903.626388				
6	France	893094.679726	175725443.8997	2596470456.6774	9371903.626388				

### Sales per Country Yearly:



```
with
                                                                                          Australia
                                                                                                   2011
                                                                                                         1532156.305200
   RevenuePerCoutry_CTE
                                                                                           Canada
                                                                                                   2011
                                                                                                         1874382 415124
                                                                                           France
                                                                                                   2011
                                                                                                         213817 758400
                                                                                                         246860.544800
                                                                                           Germany
                                                                                                   2011
     select pcr.Name,
                                                                                                         362888.617600
                                                                                           United ...
                                                                                                   2011
     YEAR(soh.Orderdate) AS 'Year',
                                                                                                   2011
                                                                                                         8411566.571830
                                                                                           United ..
     SUM(sod.LineTotal) AS TotalRevenue,
                                                                                                   2012
                                                                                                         2124783.183100
                                                                                           Australia
     SUM(SubTotal) AS TotalSales
                                                                                                         5861057.473267
                                                                                                         1557152.936935
                                                                                                   2012
                                                                                                   2012
                                                                                                         550070.736700
from Sales.SalesOrderDetail sod
                                                                                      11
                                                                                           United ...
                                                                                                   2012
                                                                                                         1581855.739784
     join Production.Product pp
                                                                                      12
                                                                                           United ...
                                                                                                   2012
                                                                                                         21849381.254...
     on pp.ProductID=sod.ProductID
                                                                                                         4230664.324489
                                                                                      13
                                                                                           Australia
                                                                                                   2013
     join Sales.SalesOrderHeader soh
                                                                                                         6229517.563395
                                                                                                   2013
                                                                                      14
                                                                                           Canada
     on soh.SalesOrderID=sod.SalesOrderID
                                                                                                         3806506.147616
                                                                                      15
                                                                                           France
                                                                                                   2013
     join Sales.Customer c
                                                                                                         2565221.058404
                                                                                           Germany
                                                                                                   2013
                                                                                      16
     on c.CustomerID=soh.CustomerID
                                                                                                         3633422.546404
                                                                                      17
                                                                                           United ...
     join Person.person p
                                                                                           United ...
                                                                                                   2013
                                                                                                         23157147.411...
     on c.PersonID=p.BusinessEntityID
                                                                                      19
                                                                                           Australia
                                                                                                   2014
                                                                                                         2767732.146528
                                                                                      20
                                                                                           Canada
                                                                                                   2014
                                                                                                         2390813.003076
     join Person.Address pa
                                                                                      21
                                                                                           France
                                                                                                   2014
                                                                                                         1674078.803975
     on pa.AddressID=soh.ShipToAddressID
                                                                                                   2014
                                                                                                         1553255.255981
                                                                                      22
                                                                                           Germany
     ioin Person.StateProvince psp
                                                                                                         2092554.131687
                                                                                                   2014
                                                                                      23
                                                                                           United ...
     on psp.StateProvinceID=pa.StateProvinceID
                                                                                                         9579495.469618
                                                                                           United ...
                                                                                                   2014
     join Person.CountryRegion pcr
     on psp.CountryRegionCode=pcr.CountryRegionCode
group by YEAR(soh.Orderdate), sod.ProductID,pp.StandardCost,pcr.Name
                                                                                              SELECT [Name], [YEAR], Revenues,
|select [Year], sum(TotalRevenue) as Revenues,
                                                                                                  AmountSales,
     [Name],
     SUM(TotalSales) AS AmountSales,
                                                                                                  AllofSales
     SUM(SUM(TotalSales)) OVER (PARTITION BY [Year]) AS AllofSales,
                                                                                              FROM SalesTableYear
     SUM(sum(TotalRevenue)) OVER (PARTITION BY [Year]) AS AllofProfits
                                                                                              ORDER BY [YEAR], [Name]
     INTO SalesTableYear
from RevenuePerCoutry_CTE
```

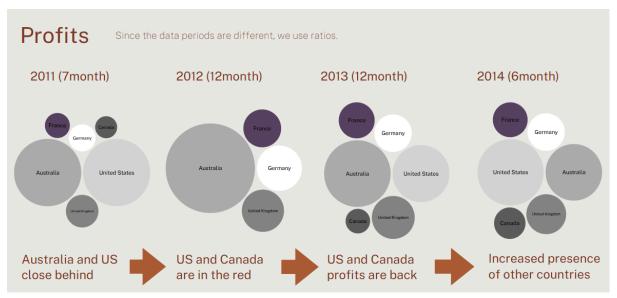
group by [Year], Name

ORDER BY [Year], [Name], AmountSales DESC

```
YEAR
                                                          AllofSales
                        12.119800
                                           1532156.3052
                                                          151706131.5475
                                                                          1.00
                        14 827000
                                          30141793 1039
                                                          151706131.5475
                                                                           19.86
                        1 691300
                                          213817 7584
                                                          151706131 5475
                                                                           0.14
                                          246860.5448
                                                          151706131.5475
                        1.952700
                                                                          0.16
                                          362888.6176
                                                          151706131.5475
                        2.870500
                                                                           0.23
                        66.538400
                                          119208615.2..
                                                          151706131.5475
                                                                           78.57
                                          2124783.1831
                                                          862786335.1754
                        17.483000
                                           175724519.9..
                                                          862786335.1754
                                                                           20.36
                        4.644800
                                          41836751.2782
                                                          862786335.1754
                                                                           4.84
                        1.640800
                                          550070.7367
                                                          862786335.1754
                                                                           0.06
                        4.718500
                                          36451168.0646
                                                          862786335.1754
                                                                           4.22
                        65.174700
                                          606099041.9...
                                                          862786335.1754
                                                                           70.24
                                          36533053.7253
                                                          1190722789.0...
                       9.698300
                                                                           3.06
                                          200969594.2...
                        14.280500
                                                          1190722789.0...
                                                                           16.87
                       8.726000
                                           102873987.2..
                                                          1190722789.0...
                                                                           8.63
                                           56881050.8186
                                                          1190722789.0...
                                                                           4.77
                                          89270444.4099
                        8.329200
                                                          1190722789.0...
                        53.085300
                                          704194658.6...
                                                          1190722789.0...
                                                                           59.14
                       13.798600
                                          22597472.8794
                                                          391255200.8993
                                                                           5.77
                       11.919500
                                          60602203.8261 391255200.8993 15.48
                       8.346200
                                          30800887.5863 391255200.8993
                                                                           7.87
                       7,743800
                                          24454336.1633 391255200.8993 6.25
                        10.432500
                                          40022154.1086 391255200.8993
                                                                           10.22
                                          212778146.3... 391255200.8993 54.38
```

```
( Revenues / AllofProfits ) * 100 AS PercentageofProfits,
 AmountSales / AllofSales ) * 100 AS PercentageofSales
```

### Profit per Country Yearly:



```
with
      ProfitsPerCoutry_CTE
as
               select pcr.Name.
               {\sf SUM}({\sf sod.LineTotal}) \ - \ ({\sf pp.StandardCost} \ * \ {\sf sum}({\sf sod.OrderQty})) \ \ {\sf AS} \ \ {\sf TotalProfit},
               SUM(SubTotal) AS TotalSales
from Sales.SalesOrderDetail sod
                join Production.Product pp
               on pp.ProductID=sod.ProductID
               join Sales.SalesOrderHeader soh
               on soh.SalesOrderID=sod.SalesOrderID
              join Sales.Customer c
on c.CustomerID=soh.CustomerID
               join Person.person p
                 on c.PersonID=p.BusinessEntityID
              join Person.Address pa
on pa.AddressID=soh.ShipToAddressID
               join Person.StateProvince psp
               on psp.StateProvinceID=pa.StateProvinceID
join Person.CountryRegion pcr
               on psp.CountryRegionCode=pcr.CountryRegionCode
\begin{picture}(100,000) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){
select [Year], sum(TotalProfit) as profits,
              [Name],
                 SUM(TotalSales) AS AmountSales,
              SUM(SUM(TotalSales)) OVER (PARTITION BY [Year]) AS AllofSales, SUM(sum(TotalProfit)) OVER (PARTITION BY [Year]) AS AllofProfits
               INTO SalesTableYear
from ProfitsPerCoutry_CTE
group by [Year], Name
ORDER BY [Year], [Name], AmountSales DESC
```

	Name	YEAR	profits	PercentageofProfits	AmountSales	AllofSales	PercentageofSales
1	Australia	2011	616582.082400	37.900400	1532156.3052	151706131.5475	1.00
2	Canada	2011	65953.472824	4.054000	30141793.1039	151706131.5475	19.86
3	France	2011	84977.113400	5.223400	213817.7584	151706131.5475	0.14
4	Germany	2011	98296.318200	6.042100	246860.5448	151706131.5475	0.16
5	United Kingdom	2011	144724.188800	8.895900	362888.6176	151706131.5475	0.23
6	United States	2011	616312.667230	37.883900	119208615.2176	151706131.5475	78.57
7	Australia	2012	797114.580900	84.065900	2124783.1831	862786335.1754	0.24
8	Canada	2012	-86719.090233	-9.145600	175724519.9297	862786335.1754	20.36
9	France	2012	142762.361235	15.056100	41836751.2782	862786335.1754	4.84
10	Germany	2012	203210.388100	21.431100	550070.7367	862786335.1754	0.06
11	United Kingdom	2012	177377.352184	18.706700	36451168.0646	862786335.1754	4.22
12	United States	2012	-285544.401052	-30.114300	606099041.9831	862786335.1754	70.24
13	Australia	2013	1158824.494889	34.546700	36533053.7253	1190722789.0552	3.06
14	Canada	2013	158149.059095	4.714700	200969594.2065	1190722789.0552	16.87
15	France	2013	338574.601716	10.093500	102873987.2768	1190722789.0552	8.63
16	Germany	2013	366205.259504	10.917200	56881050.8186	1190722789.0552	4.77
17	United Kingdom	2013	481865.609104	14.365300	89270444.4099	1190722789.0552	7.49
18	United States	2013	850743.904827	25.362300	704194658.6181	1190722789.0552	59.14
19	Australia	2014	861734.220828	25.032200	22597472.8794	391255200.8993	5.77
20	Canada	2014	266932.963076	7.754000	60602203.8261	391255200.8993	15.48
21	France	2014	326780.603375	9.492500	30800887.5863	391255200.8993	7.87
22	Germany	2014	375304.726781	10.902100	24454336.1633	391255200.8993	6.25
23	United Kingdom	2014	427941.972987	12.431100	40022154.1086	391255200.8993	10.22
24	United States	2014	1183799.176218	34.387800	212778146.3356	391255200.8993	54.38

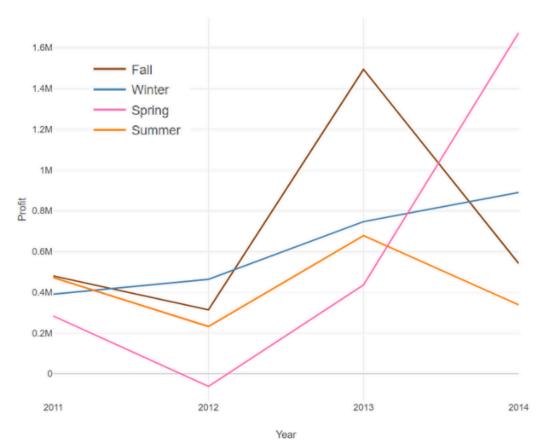
### B2B/B2C Profits Yearly:





	CustomerType	Year	B2BperProfit
1	Consumer (B2C)	2011	1541849.018600
2	Business (B2B)	2011	84996.824254
3	Consumer (B2C)	2012	2382419.678100
4	Business (B2B)	2012	-1434218.486966
5	Consumer (B2C)	2013	4293187.813500
6	Business (B2B)	2013	-938824.884365
7	Consumer (B2C)	2014	3470486.369300
8	Business (B2B)	2014	-27992.706035

### Profit per Season Yearly:

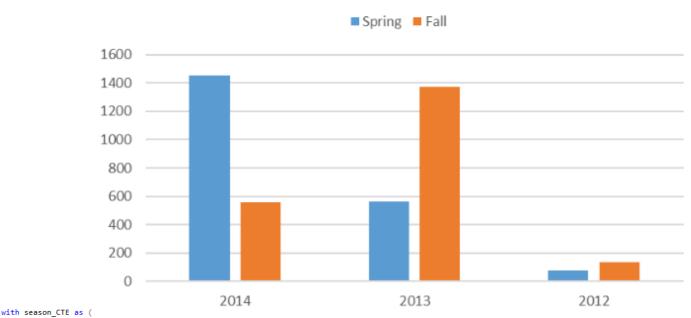


```
YEAR(H.OrderDate) AS Year,
 CASE
                 WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Fall'
   WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Fall'
WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Winter'
WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Spring'
when st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'Summer'
WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Spring'
WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Fall'
when st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Fall'
when st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'winter'
END Screece
        END AS Season,
         SUM(D.LineTotal - (P.StandardCost * D.OrderQty)) AS Profit_$
FROM Sales.SalesOrderHeader H
JOIN Sales.SalesOrderDetail D ON D.SalesOrderID = H.SalesOrderID
JOIN Production.Product P ON P.ProductID = D.ProductID
join Sales.SalesTerritory st on st.TerritoryID=h.TerritoryID
GROUP BY
  YEAR(H.OrderDate),
 CASE
                 WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Fall'
   WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Winter'
WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Spring'
when st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'Summer'
WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Spring'
                 WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Summer' WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Fall'
                 when st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'winter'
ORDER BY Season, Year;
```

	Year	Season	Profit_\$
1	2011	Fall	480183.645930
2	2012	Fall	313925.297308
3	2013	Fall	1493802.586101
4	2014	Fall	541153.871252
5	2011	Spring	283610.297500
6	2012	Spring	-61493.101702
7	2013	Spring	435894.248004
8	2014	Spring	1673475.012560
9	2011	Summer	472375.234884
10	2012	Summer	232071.766147
11	2013	Summer	678171.708397
12	2014	Summer	338148.925676
13	2011	Winter	390676.664540
14	2012	winter	463697.229381
15	2013	winter	746494.386633
16	2014	winter	889715.853777

### Number Of Promotion Spring X Fall:

### Numbeer Of Promotion



```
{\tt SELECT\ format} (h.OrderDate, \verb"yyyy") \ as \ \verb"date", \verb"sr.ReasonType, \verb"sum" (d.OrderQty) \ as \ \verb"No", \\
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Fall'
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Winter'
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Spring'
        when st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'Summer
  WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Spring'
        WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Summer'
        WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Fall'
        when st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'winter'
    END AS Season
FROM Sales.SalesOrderHeader H
JOIN Sales.SalesOrderDetail D ON D.SalesOrderID = H.SalesOrderID
JOIN Production.Product P ON P.ProductID = D.ProductID
join Sales.SalesTerritory st on st.TerritoryID=h.TerritoryID
JOin Sales.SalesOrderHeaderSalesReason hsr on hsr.SalesOrderID=h.SalesOrderID
join Sales.SalesReason sr on sr.SalesReasonID=hsr.SalesReasonID
where sr.ReasonType = 'Promotion'
group by format(h.OrderDate,'yyyy'),sr.ReasonType,
 CASE
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Fall'
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Winter
        WHEN st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Spring'
        when st.CountryRegionCode = 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'Summer
  WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (3, 4, 5) THEN 'Spring'
        WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (6, 7, 8) THEN 'Summer'
        WHEN st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (9, 10, 11) THEN 'Fall'
```

when st.CountryRegionCode != 'AU' and MONTH(H.OrderDate) IN (12, 1, 2) then 'winter'

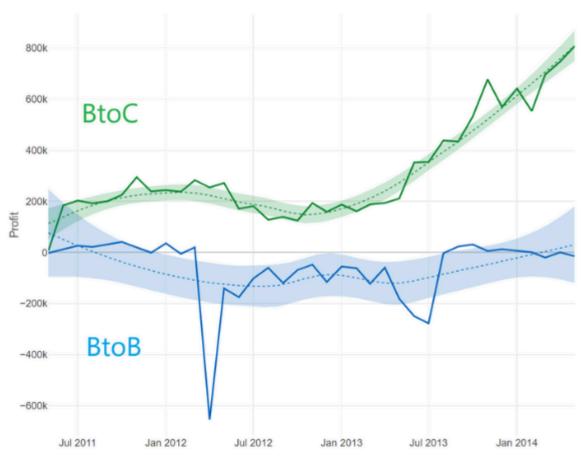
END)
select \*
from season\_CTE

order by Season, date

where Season='Fall' or Season='spring'

	date	ReasonType	No	Season
1	2012	Promotion	137	Fall
2	2013	Promotion	1372	Fall
3	2014	Promotion	556	Fall
4	2012	Promotion	78	Spring
5	2013	Promotion	561	Spring
6	2014	Promotion	1454	Spring

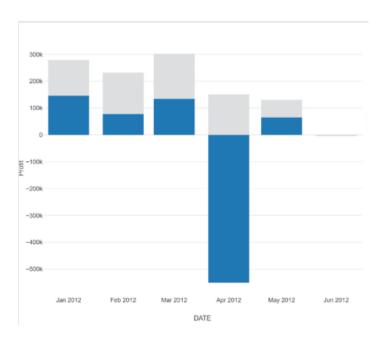
### B2B/B2C Profit Lifetime:

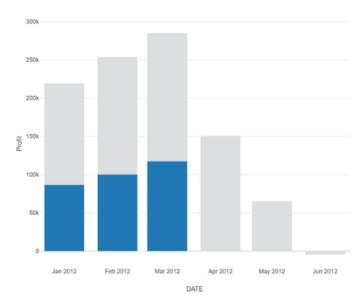


### DATE

ΓE							
	CustomerType	Date	TotalProfit	35	Consumer (B	2011-05	6082.874200
1	Business (B2B)	2011-05	-2377.217900	36	Consumer (B	2011-06	183781.263
2	Business (B2B)	2011-07	26253.571138	37	Consumer (B	2011-07	202695.551
3	Business (B2B)	2011-08	21227.549146	38	Consumer (B	2011-08	191826.715
4	Business (B2B)	2011-10	41181.135730	39	Consumer (B	2011-09	200136.355
5	Business (B2B)	2011-12	-1288.213860	40	Consumer (B	2011-10	224631.902
6	Business (B2B)	2012-01	35663.756958	41	Consumer (B	2011-11	294138.893
7	Business (B2B)	2012-02	-5445.495820	42	Consumer (B	2011-12	238555.462
8	Business (B2B)	2012-03	19813.426328	43	Consumer (B	2012-01	243237.560
9	Business (B2B)	2012-04	-654180.090	44	Consumer (B	2012-02	237270.172
10	Business (B2B)	2012-05	-140734.424	45	Consumer (B	2012-03	282510.371
11	Business (B2B)	2012-05	-175012.186	46	Consumer (B	2012-04	253891.673
	Business (B2B)	2012-00	-101979.105	47	Consumer (B	2012-05	271418.426
12				48	Consumer (B	2012-06	170432.565
13	Business (B2B)	2012-08	-60026.6623	49	Consumer (B	2012-07	181304.612
14	Business (B2B)	2012-09	-119990.363	50	Consumer (B	2012-08	127618.133
15	Business (B2B)	2012-10	-68788.1275	51	Consumer (B	2012-09	139102.816
16	Business (B2B)	2012-11	-47775.3370	52	Consumer (B	2012-10	124430.726
17	Business (B2B)	2012-12	-115763.876	53	Consumer (B	2012-11	192733.098
18	Business (B2B)	2013-01	-55397.0785	54	Consumer (B	2012-12	158469.521
19	Business (B2B)	2013-02	-61567.9211	55	Consumer (B	2013-01	187065.921
20	Business (B2B)	2013-03	-122967.292	56	Consumer (B	2013-02	160952.966
21	Business (B2B)	2013-04	-59572.5424	57	Consumer (B	2013-03	187990.237
22	Business (B2B)	2013-05	-181448.893	58	Consumer (B	2013-04	193439.032
23	Business (B2B)	2013-06	-249403.145	59	Consumer (B	2013-05	210834.775
24	Business (B2B)	2013-07	-277323.269	60	Consumer (B	2013-06	351550.164
25	Business (B2B)	2013-08	-2937.410945	61	Consumer (B	2013-07	353146.528
26	Business (B2B)	2013-09	22996.036603	62	Consumer (B	2013-08	437777.511
27	Business (B2B)	2013-10	31088.233602	63	Consumer (B	2013-09	433776.332
28	Business (B2B)	2013-11	5460.747087	64	Consumer (B	2013-10	531422.383
29	Business (B2B)	2013-11	12247.652901	65	Consumer (B	2013-11	676677.785
30	Business (B2B)	2013-12	6680.014353	66	Consumer (B	2013-12	568554.175
	, ,			67	Consumer (B	2014-01	640788.806
31	Business (B2B)	2014-02	216.468900	68	Consumer (B	2014-02	552813.488
32	Business (B2B)	2014-03	-20263.1791	69	Consumer (B	2014-03	695928.330
33	Business (B2B)	2014-04	201.017200	70	Consumer (B	2014-04	746289.156
34	Business (B2B)	2014-05	-14827.0273	71	Consumer (B	2014-05	807300.585
35	Consumer (B	2011-05	6082.874200	72	Consumer (B	2014-06	27366.001500

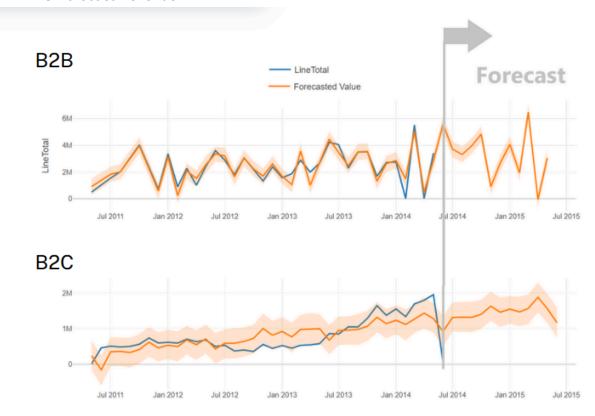
Profit comparison between Bike-100 series and other products during the clearance in April X Profit comparison doing a progressive discount clearance





Month	DiscountRa te	UnitsSol d	UnitPric e	StandardCo st	ProfitPerUni t	TotalProfi t
Month 1	0.10	82	3399.99	1905.67	1054.321	86,452.29
Month 2	0.20	123	3399.99	1905.67	813.324	100,039.8 5
Month 3	0.30	205	3399.99	1905.67	572.327	117,337.0 4
Total	_	410	_	_	_	303,829.1 8

#### B2B/B2C Forecast Revenue:



Generalized Additive Model (Prophet) / TOOL: Exploratry

### Prophet: Forecasting time series data

It is a statistical forecasting model for time series data published by Meta.

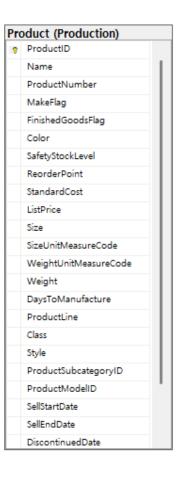
Prophet is a procedure for forecasting time series data based on an additive model where non-linear trends are fit with yearly, weekly, and daily seasonality, plus holiday effects. It works best with time series that have strong seasonal effects and several seasons of historical data.

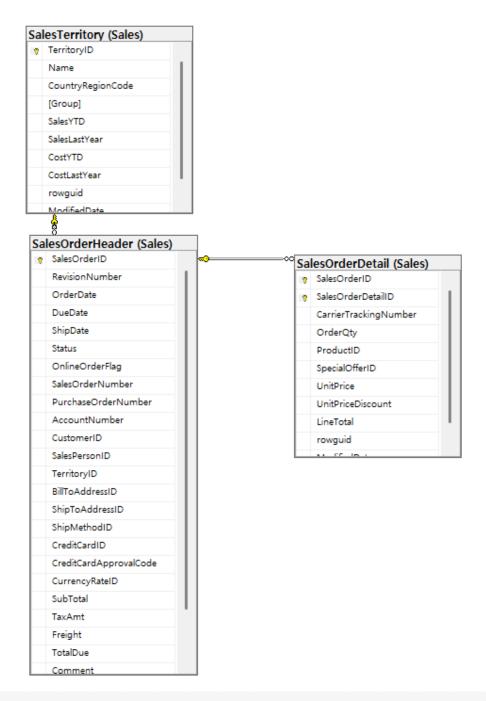
```
-- Total Profit Per year
select
    concat_ws('-',YEAR(h.OrderDate), MONTH(h.OrderDate)) as 'Date',
        SUM(D.LineTotal) AS Revenue,
        RANK() OVER (ORDER BY SUM(D.LineTotal - (P.StandardCost * D.OrderQty))) AS Rank
from Sales.SalesOrderHeader H
join Sales.SalesOrderDetail D on D.SalesOrderID = H.SalesOrderID
join Production.Product P on P.ProductId = D.ProductID
group by YEAR(H.OrderDate), MONTH(h.OrderDate)
order by YEAR(H.OrderDate), MONTH(h.OrderDate);
```

	Date	Revenue	Rank
1	2011-5	503805.916900	3
2	2011-6	458910.824800	19
3	2011-7	2044600.003338	22
1	2011-8	2495816.733446	21
5	2011-9	502073.845800	20
6	2011-10	4588761.816130	25
7	2011-11	737839.821400	27
3	2011-12	1309863.251140	24
9	2012-1	3970627.278958	26
10	2012-2	1475426.909980	23
11	2012-3	2975748.238428	28
12	2012-4	1634600.798332	1
13	2012-5	3074602.813538	15
14	2012-6	4099354.356751	2
15	2012-7	3417953.869571	12
16	2012-8	2175637.217725	10
7	2012-9	3454151.940485	4
18	2012-10	2544091.105517	8
9	2012-11	1872701.976206	18
0	2012-12	2829404.818943	7
1	2013-1	2087872.462504	16
22	2013-2	2316922.151480	13
23	2013-3	3412068.967535	9
24	2013-4	2532265.912399	17
25	2013-5	3245623.754479	6
26	2013-6	5081069.131596	14
27	2013-7	4896353.737794	11
28	2013-8	3333964.067555	29
29	2013-9	4532908.705303	30
80	2013-10	4795813.289802	32
81	2013-11	3312130.245587	36
32	2013-12	4075486.625601	33
33	2014-1	4289817.950953	34
34	2014-2	1337725.035600	31
35	2014-3	7217531.091974	35
86	2014-4	1797173.923000	37

# Diagram

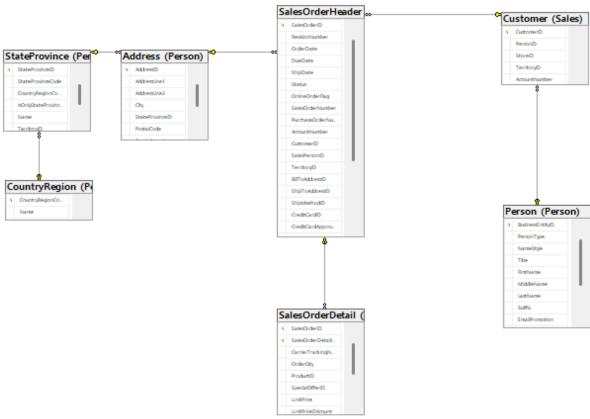
## Relationship about Table that used for checking profit seasonal



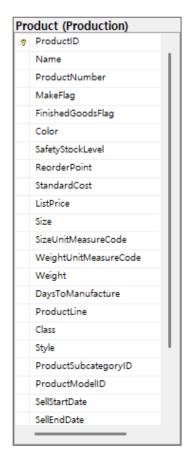


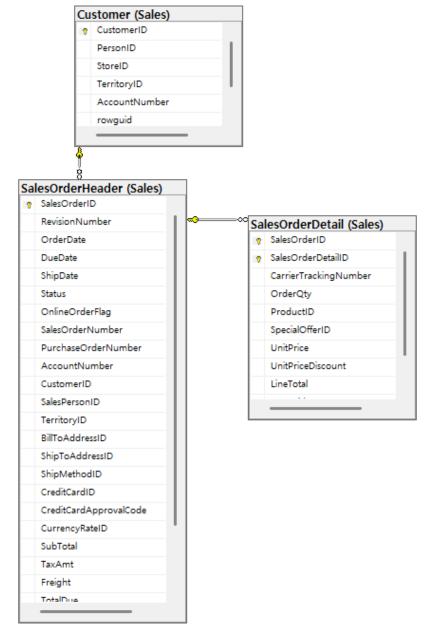
## Relationship about Table that used for checking profit for each country





## Relationship about Table that used for checking B2B and B2C





## **Excel Data**

## For visualization Total Profits per season

Year	Season	Profit_\$	_
2011	Spring	283610.2975	
2012	Spring	-61493.1017	
2013	Spring	435894.248	
2014	Spring	1673475.013	
2011	Summer	472375.2349	
2012	Summer	232071.7661	
2013	Summer	678171.7084	
2014	Summer	338148.9257	
2011	Fall	480183.6459	
2012	Fall	313925.2973	
2013	Fall	1493802.586	
2013	Fall	541153.8713	
2011	Winter	390676.6645	
2012	Winter	463697.2294	
2013	Winter	746494.3866	
2014	Winter	889715.8538	

## For visualization TotalProfit and revenue for each country

Country	Date	TotalProfit	Country	y Date	TotalRevenue
AU	2011	616,582	AU	2,011	1,532,156
AU	2012	797,115	AU	2,012	2,124,783
AU	2013	1,158,824	AU	2,013	4,230,664
AU	2014	861,734	AU	2,014	2,767,732
CA	2011	65,953	CA	2,011	1,874,382
CA	2012	-86,719	CA	2,012	5,861,057
CA	2013	158,149	CA	2,013	6,229,518
CA	2014	266,933	CA	2,014	2,390,813
DE	2011	98,296	DE	2,011	246,861
DE	2012	203,210	DE	2,012	550,071
DE	2013	366,205	DE	2,013	2,565,221
DE	2014	375,305	DE	2,014	1,553,255
FR	2011	84,977	FR	2,011	213,818
FR	2012	142,762	FR	2,012	1,557,153
FR	2013	338,575	FR	2,013	3,806,506
FR	2014	326,781	FR	2,014	1,674,079
GB	2011	144,724	GB	2,011	362,889
GB	2012	177,377	GB	2,012	1,581,856
GB	2013	481,866	GB	2,013	3,633,423
GB	2014	427,942	GB	2,014	2,092,554
US	2011	616,313	US	2,011	8,411,567
US	2012	-285,544	US	2,012	21,849,381
US	2013	850,744	US	2,013	23,157,147
US	2014	1,183,799	US	2,014	9,579,495

## For checking Top 15 Negative profit product

ProductID	Name	OrderDate	UnitPrice	UnitPriceD	Profit per	Status		
778	Mountain-	2012-04-30 0:00	843.7475	0.35	-26993.2	B2B	Mountain-100 Blac	26993.17
771	Mountain-	2012-04-30 0:00	849.9975	0.35	-25833.5	B2B	Mountain-100 Silv	25833.46
773	Mountain-	2012-04-30 0:00	849.9975	0.35	-25833.5	B2B	Mountain-100 Silv	25833.46
776	Mountain-	2012-04-30 0:00	843.7475	0.35	-24293.9	B2B	Mountain-100 Blac	24293.85
775	Mountain-	2012-04-30 0:00	843.7475	0.35	-22944.2	B2B	Mountain-100 Blac	22944.19
772	Mountain-	2012-04-30 0:00	849.9975	0.35	-21754.5	B2B	Mountain-100 Silv	21754.5
954	Touring-10	2013-07-31 0:00	953.628	0.2	-21571.1	B2B	Touring-1000 Yello	21571.07
957	Touring-10	2013-06-30 0:00	953.628	0.2	-20133	B2B	Touring-1000 Yello	20132.99
957	Touring-10	2013-07-31 0:00	953.628	0.2	-20133	B2B	Touring-1000 Yello	20132.99
955	Touring-10	2013-07-31 0:00	953.628	0.2	-19414	B2B	Touring-1000 Yello	19413.96
774	Mountain-	2012-04-30 0:00	849.9975	0.35	-19035.2	B2B	Mountain-100 Silv	19035.18
777	Mountain-	2012-04-30 0:00	843.7475	0.35	-18895.2	B2B	Mountain-100 Blac	18895.22
954	Touring-10	2013-06-30 0:00	953.628	0.2	-15818.8	B2B	Touring-1000 Yello	15818.78
956	Touring-10	2013-07-31 0:00	953.628	0.2	-15099.7	B2B	Touring-1000 Yello	15099.75
954	Touring-10	2013-05-30 0:00	953.628	0.2	-12942.6	B2B	Touring-1000 Yello	12942.64

## For visualization Number of promotion in fall and spring

date	ReasonTyr N	О	Season
2014	Promotion	1454	Spring
2013	Promotion	561	Spring
2012	Promotion	78	Spring
2014	Promotion	556	Fall
2013	Promotion	1372	Fall
2012	Promotion	137	Fall

## For checking total profit for each categories

Date	PROFII	CategoryName
May-11	596.4168	Accessories
Jul-11	1263.836	Accessories
Aug-11	1824.751	Accessories
Oct-11	3424.802	Accessories
Dec-11	205.9058	Accessories
Jan-12	1533.643	Accessories
Feb-12	624.8176	Accessories
Mar-12	1952.934	Accessories
Apr-12	1505.242	Accessories
May-12	1929.708	Accessories
Jun-12	6298.373	Accessories
Jul-12	5046.849	Accessories
Aug-12	3122.858	Accessories
Sep-12	4273.207	Accessories
Oct-12	3369.658	Accessories
Nov-12	1609.383	Accessories
Dec-12	1909.507	Accessories
Jan-13	1812.301	Accessories