MKT 680 – Marketing Analytics Marketing Models Project

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INTRODUCTION

Pernalonga, a leading supermarket chain of over 400 stores in Lunitunia, sells over 10 thousand products in over 400 categories. Pernalonga regularly partners with suppliers to fund promotions and derives about 30% of its sales on promotions. Until recent experimentation with personalized promotions, most of Pernalonga's promotions are chain-wide promotions.

Mahou San Miguel, our client who sells beer products in Pernalonga stores, has hired us to verify the effectiveness of its promotions and marketing partnership with Pernalonga. We seek to identify promotion and marketing activities that drive significant incremental sales for continuation into 2018.

Our Marketing Model will consider weekly sales volume, for each San Miguel product, for the following components: Base, Shelf Price, Discount, Flyer, Store Display, Email, Web Search, Paid Search, and TV.

EXECUTION OVERVIEW

We compiled San Miguel data into a format acceptable for modeling. Additionally, we converted GRP to Reach, considered San Miguel's competitors in the Beer Product category, included the seasonality index, as well as the holiday index. We then ran linear models, with a few transformations, on the data to estimate weekly sales volume for the various components.

DATA UNDERSTANDING

There are two sets of Pernalonga data provided to conduct the project - product_table and transaction_table. The product table contains 10,767 rows and 7 columns of data. The tranaction_table contains 29,617,585 rows and 12 columns. Additionally, we are provided data from San Miguel. These datasets include supplements to the product and transaction tables, data regarding promotion and advertising activity records, the seasonality index for Beer products, and a list of national holidays celebrated in Lunitunia in 2016 and 2017.

We noticed that the data provided by San Miguel has transaction dates, but these dates are scattered, and in order to consider them as a whole, we needed to label them in such a way that we can easily interpret the timing of any event. Therefore, we began preparing the data by adding *week* labels to the data. For any given event in the supplementary tables, promotion/advertising table. seasonality table or national holiday table we labeled with week numbers from 1 (first

week in 2016) to 104 (last week in 2017), using only complete weeks. From here, we built out a table containing all relevant San Miguel data. We grouped by week and summed "tran_prod_paid_amt" from the transaction table supplement data to record sales for each of the 104 weeks across the two years. Next, we "binary coded" promotions, for each week, using "prod_assoc" for the Store Display and Flyer promotion vehicles; separating these vehicles into 3 columns each, depending on the last digit of prod_assoc (1, 2 or 3). We then binary coded Email promotion, as well. Finally, we followed a similar approach for TV, Radio, Paid Search and Web Display vehicles but used the value from "amount," as opposed to binary coding, to fill in weeks 1-104 in our table. Weeks where these promotion vehicles were not used were given a value of 0. A snippet of our San Miguel created table is shown below:

Week	Sales	Store_ prod1	Store_ prod2	Store_ prod3	Flyer_ prod1	Flyer_ prod2	Flyer_ prod3	Email	TV	Radio	Paid Search	Web Display
23	1537. 91	0	1	1	1	1	1	0	500	200	34790	0
30	1671	0	0	0	0	1	0	0	0	0	28608	300000
40	1023. 07	0	0	1	0	1	1	0	300	300	7044	0
80	1111. 11	0	1	0	0	1	0	0	0	0	26341	0
104	842.1	0	0	0	0	1	0	1	0	0	15925	0

Table 1: Example snippet of our initial San Miguel created table

DATA PREPARATION

Before running the model, we were examining the "reasonableness" of the data. The first issue we found was, because "Store Display" and "Flyer" are both promotional media causal, they are conducted on different items during different periods. Instead of aggregating sales units of different items together, we decided to build three models for the three products.

After deep consideration, we decided to use weekly sales quantity as the dependent variable, instead of weekly sales revenue. The reason behind this is that sales quantity completely reflects the fluctuation of sales across weeks, while sales revenue is implicitly the function of sales price, which will undermine the validity of our result.

Both "TV" and "Radio" are measured in Gross Rating Point (GRP), which is a general measurement of advertisement impact. To be better fitted into the model, we need to convert GRP to percentage of customer reach (%Reach), which measures the actual effect of ads. First, we converted GRP to ad-stocked GRP, with a given half-life time, to explain the lagged effect of advertisement across the weeks. Then we can convert ad-stocked GRP to %Reach using the equation:

$$Reach = 0.95 \left(1 - e^{-0.020 \ GRP}\right) \quad Reach = 0.90 \left(1 - e^{-0.025 \ GRP}\right)$$

And the converted %Reach is plotted like:

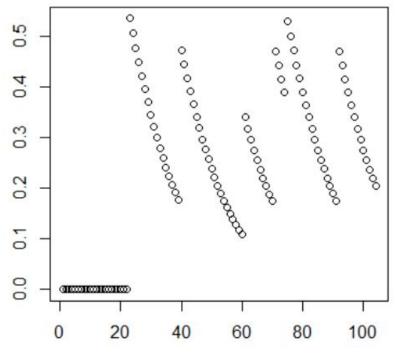


Fig 1: Converted %Reach by week

Similarly, "Paid Search" and "Web Display" are measured in "impressions", which should also be converted to "Reach. But due to the lack of information, we decided to keep the terms unchanged.

Next, we took competitor factors into consideration. We looked at the whole transaction table and found that nine products are in the same sub_category as the San Miguel beer. When we we found ourselves unsure of which products are the main competitors, their sales price revealed a clue. In our three items, item 3 (id: 138936953) is sold at very high price around \$15. Other than two products from *HEINEKEN* and *CARLSBERG*, which are also very expensive, all the other items are much cheaper, and fall in the price range from \$0.80 to \$2.50, which is close to the prices of items 1 and 2.

Last but not least, we were discussing whether to use binary attributes or numeric ones on some promotional vehicles. On our final table, "Email", "Paid Search" and "Web Display" use numeric measure which can best explain the variable without losing any information. In addition, we also modeled the average unit price and discount of the items as well as the seasonality and holiday index.

MODEL BUILDING

Additive Model

As mentioned by the client, three different San Miguel Beer Products are sold in Pernalonga's stores. We analyzed these products using an additive model as a way of estimating weekly sales volume for the various components.

We began by running a simple linear regression model, without interaction terms, for each of the three San Miguel Beer Products. This was done to ensure that none of the terms had an impact on any others -- avoiding the problem of multicollinearity. In order to do this, we first generated all possible two-term interaction terms and included these into the additive model. Then, we used Variance Inflation Factor (VIF), which quantifies multicollinearity, as both a check and a filter for multicollinearity. Using VIF, we filtered each of the high collinearity terms until every VIF fell below 40. Once we got VIF below 40 for each term, we were then able to run the aforementioned simple linear regressions. The regressions without interaction terms were used as the lower layer for the stepwise function. Meanwhile the regressions with interaction terms, after filtering terms with VIF over 40, were used as the upper layer for the stepwise function.

			> vif(out)
web_search	paid_search	email	flyer
9.579891	4.531369	1.321827	10.011075
seasonality	holiday	radio	tv
3.436497	10.068096	12.065367	10.736665
sub_price	store	discount	price
1.222603	1.727180	4.133771	3.375286
flyer:paid_search	paid_search:holiday	holiday:sub_sale	sub_sale
9.256516	5.638308	4.417201	8.357712
		id_search:web_search	paid_search:sub_sale pa
		9.431446	10.566756

Fig 2: VIF output for each term in an Additive Model

Next, we ran the stepwise model using the regressions without interaction terms and the regressions with filtered interaction terms. From the stepwise output we found the best result for our additive model

One thing to note is that we attempted multiple different log transformations to the independent variables but none of these attempts improved our model.

Multiplicative Model

Much like our additive model, we also attempted a multiplicative model as a way of estimating weekly sales volume for the various components. The process of developing the multiplicative model was essentially the same as that of the additive model.

Just like with our additive model, we first generated all possible two-term interaction terms and included these into the multiplicative model. We then used VIF as both a check and a filter for multicollinearity. Using VIF, we filtered each of the high collinearity terms until every VIF fell below 40. Once we got VIF below 40 for each term, we were then able to run simple linear regressions for each of the three products. The regressions without interaction terms were, again, used as the lower layer for a stepwise function and the regressions with interaction terms, after filtering terms with VIF over 40, were used as the upper layer.

> vif(out)			
flyer	email	paid_search	web_search
9.386091	1.298699	1.505346	1.495052
tv	radio	holiday	seasonality
10.412555	11.776013	7.857236	3.165615
price	discount	store	sub_price
3.290368	3.998917	1.627680	1.206017
paid_search:holiday	flyer:paid_search		
5.317906	8.504404		

Fig 3: VIF output for each term in a Multiplicative Model

From here, we ran a stepwise model using both the regressions without interaction terms and those with filtered interaction terms, and found the best results from the output for our multiplicative model.

Here, we attempted log transformations on the independent variables, as well, but these did not improve the model result. However, we do apply a log transformation to the dependent variable, marking the difference between multiplicative and additive models.

Modeling Results

Product 138936951

The evaluated diagnostics of each model is shown in table 2. The additive model with interaction terms is the best model for product 138936951, with a RMSE of 26.99039 and MAPE value of

0.09892532. The Durbin-Watson test of the best model is 2.2311, indicating that there is no autocorrelation in the model.

	Additive model	Multiplicative model	Additive model with interactions	Multiplicative model with interactions
RMSE	28.22731	28.46888	26.99039	26.89486
MAPE	0.1072526	0.1072157	0.09892532	0.1018229

Table 2: Evaluated Diagnostic result of all four models

The following equation shows the glm model formula of our best model for product 1:

```
sales ~ flyer + email + paid_search + web_search + tv + radio + holiday + seasonality + price + discount + price12 + radio:discount + email:paid_search
```

Also, the coefficient table indicates that the regression model predicts the dependent variable, sales significantly well, with a R^2 value of 0.5005735. Among all the independent variables, term discount contributes statistically to the sales, with a significance level of 0.000. Term email, term seasonality, term competition price, as well as the interaction term of radio and discount contribute, statistically significantly, to the sales, with a significance value of 0.01.

Product 138936952

The evaluated diagnostics of each model is shown in table 3. The additive model with interaction terms is the best model for product 138936952, with a RMSE of 15.45297 and MAPE value of 0.1186129. The Durbin-Watson test of the best model is 1.9001, indicating that there is no autocorrelation in the model

Product 2

	Additive model	Multiplicative model	Additive model with interactions	Multiplicative model with interactions
RMSE	17.3329	17.3174	15.45297	15.75185
MAPE	0.1318087	0.1285695	0.1186129	0.1160463

Table 3: Evaluated Diagnostic result of all four models

The following equation shows the glm model formula of our best model for product 2:

```
sales ~ flyer + email + paid_search + web_search + tv + radio + holiday + seasonality + price + discount + store + sub_price + sub_sale + paid_search:seasonality + paid_search:holiday + flyer:paid_search + tv:radio + discount:store + flyer:discount sales ~ flyer + email + paid_search + web_search + tv + radio + holiday + seasonality + price + discount + store + sub_price + sub_sale + paid_search:seasonality + paid_search:holiday + flyer:paid_search + tv:radio + discount:store + flyer:discount
```

Also, the coefficient table indicates that the regression model predicts the dependent variable, sales significantly well, with a R^2 value of 0.7263. Among all the independent variables, seasonality, price, discount, and the interaction of flyer and paid search contribute statistically to the sales, with a significance level of 0.000. The term flyer and term radio contribute statistically significantly to the sales, with a significance value of 0.001. The term store, interaction of paid search and seasonality, the interaction of tv and radio, and the interaction of discount and stores contribute statistically significant to the sales, with a significance value of 0.01. Finally, the term paid search, term web search, term holiday, interaction of paid search and holiday and interaction of flyer and discount contribute, statistically significantly, to the sales, with a significance value of 0.1.

Product 138936953

The evaluated diagnostics of each model is shown in table 4. The additive model with interaction terms is the best model for product 138936953, with a RMSE of 5.510381 and MAE value of 4.120232. Since the MAPE in this case is uninterpretable, we used MAE instead. The Durbin-Watson test of the best model is 1.5571, with a corresponding p-value of 0.002578, indicating that there is no autocorrelation in the model.

	Additive model	Multiplicative model	Additive model with interactions	Multiplicative model with interactions
RMSE	7.792062	8.110972	5.510381	6.3875
MAE	5.739204	5.311971	4.120232	4.384059
MAPE	Inf	Inf	Inf	Inf

Table 4: Evaluated Diagnostic result of all four models

The following equation shows the glm model formula of our best model for product 3:

sales ~ flyer + email + paid_search + web_search + tv + radio + holiday + seasonality + price + discount + store + price3 + sub3 + flyer:email + web_search:sub3 + store:sub3 + flyer:sub3 + paid_search:store + web_search:radio + flyer:price3

Also, the coefficient table indicates that the regression model predicts the dependent variable, sales significantly well, with a R^2 value of 0.8485579. Among all the independent variables, term websearch, term tv, term radio, the interaction of web search and competition, the interaction of store and competition, the interaction of flyer and competition contribute statistically to the sales, with a significance level of 0.000. Term seasonality, the interaction term of paid search and store, as well as the interaction of web search and radio contributes statistically significantly to the sales, with a significance value of 0.001. Term discount, the interaction of flyer and email, as well as the interaction of flyer and price contributes, statistically significantly, to the sales, with a significance value of 0.01.

DueTo CALCULATION

After getting the best model for each product, we calculated the decomposition of weekly sales volume for each product into the following components: base (includes Seasonality and Holidays), shelf price, discount, flyer, store, display, email, web display, paid search, TV and the corresponding significant interactions in each best model. We prepared a table for each product, listed in the appendix below.

We visualized the DueTo graph for each product, as shown below:

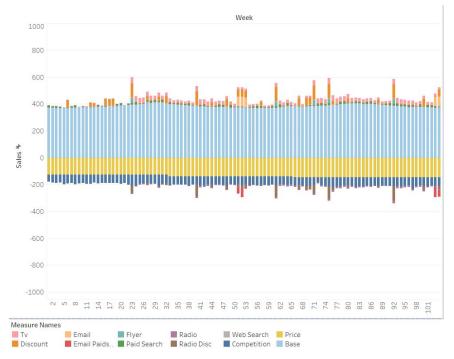


Figure 4: DueTo Decomposition of Historical Price for Product 138936951

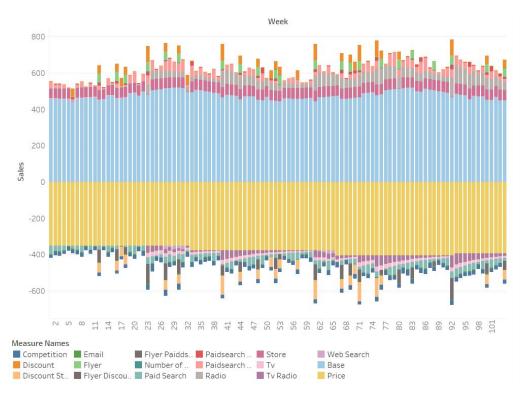
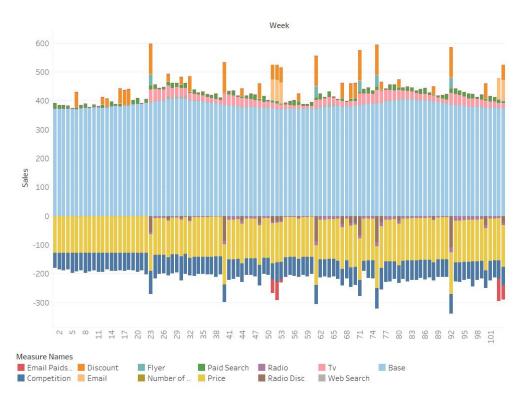


Figure 5: DueTo Decomposition of Historical Price for Product 138936952



<u>Figure 6: DueTo Decomposition of Historical Price for Product 138936953</u>

Appendix

_	c 0	competiti on -52.8963	discount 0	price -127.167	radio 0	tv 0	ch 0	paid_sear ch 17.98207	email 0	flyer 0	base 373.5349	1
	0	-57.8546	0	-127.167	0	0	0	11.05378	0	0	373.0236	2
	0	-61.0437	0	-127.167	0	0	0	11.81664	0	0	372.6497	3
	0	-57.5008	0	-127.167	0	0	0	9.286197	0	0	372.5973	4
	0	-70.368	0	-127.167	0	0	0	1.238662	0	0	372.9839	5
	0	-65.9071	52.28481	-127.167	0	0	0	6.595272		0	371.1468	6
	0	-61.8343 -70.1051	0	-127.167 -127.167	0	0	0	8.863892 13.77145	0	0	374.824 375.7514	7 8
	0	-65.3804	0	-127.167	0	0	0	0.625359	0	0	376.5186	9
	0	-61.4632	0	-127.167	0	0	0	8.499225	0	0	377.5054	10
	0	-67.0328	0	-127.167	0	0	0	1.419865	0	0	378.6312	11
	0	-67.5825	26.1424	-127.167	0	0	0	8.723752	0	0	376.8865	12
	0	-58.7527	26.1424	-127.167	0	0	0	1.850458	0	0	378.0956	13
	0	-63.9559	0	-127.167	0	0	0	13.10051	0	0	382.4719	14
	0	-63.1285	0	-127.167	0	0	0		0	0	383.5803	15
	0	-61.7388	52.28481	-127.167	0	0	0		0	0	382.1565	16
	0	-62.7595	52.28481	-127.167	0	0	0	1.204004	0	0	383.4609	17
	0	-60.3675	52.28481	-127.167 -127.167	0	0	0	3.348682	0	0	384.8949	18
	0	-62.2609 -67.2502	0	-127.167	0	0	0	12.90725 17.55261	0	0	389.3288 390.8408	19 20
	0	-61.2074	0	-127.167	0	0	0	2.092314	0	0	389.5402	21
	0	-74,9475	0	-127.167	0	0	0	10.6925	0	0	394.4797	22
	-55.1958	-80.4767	104.5696	-127.167	-8.84098	45.59185	0		0	40.01451	393.9578	23
	0		0	-127.167	-8.21369	43.07782	0		0	0	398.9919	24
	0	-66.1743	0	-127.167	-7.62306	40.61517	0	2.08817	0	0	400.8831	25
	0	-65.4168	0	-127.167	-7.06818	38.21603	0	6.209132	0	0	402.6692	26
	-10.22	-62.2129	26.1424	-127.167	-6.54793	35.89046	12.06693	12.77615	0	0	404.6025	27
	0	-65.5885	0	-127.167	-6.06105	33.64656	6.033466	15.42865	0	0	406.0318	28
	0	-63.8878	0	-127.167	-5.60616	31.49058	12.06693	11.00367	0	0	406.6259	29
	-8.08774	-84.1053	26.1424	-127.167	-5.18182	29.42709	9.050199	10.77726	0	0	406.4609	30
	12 7027	-68.9845	62 20401	-127.167	-4.78653 -4.4188	27.45912	12.06693	15.62718	0	0	405.8894	31
	-13.7937	-61.4673	52.28481	-127.167		25.58835	0	3.083093	0	0	402.0039	32
	0	-65.6236	0	-138.225 -138.225	-4.07711	23.81528	0	14.66466 5.240203	0	0	400.579 401.2103	33
	0	-59.7911 -58.9082	0	-138.225	-3.75996 -3.46589	22.13941 20.55938	0	12.13083	0	0	398.7578	35
	0	-58.9082 -60.9178	0	-138.225	-3.46589	19.07313	0	7.116655	0	0	398.7578	36
	0	-61.4616	0	-138.225	-2.9413	17.67806	0	6.62541	0	0	394.1296	37
	0	-70.9391	0	-138.225	-2.70808	16.37109	0	16.08113	0	0	391.8212	38
	0	-61.4892	0	-138.225	-2.49253	15.14884	0	6.10704	0	0	389.7252	39
	-85.339	-62.169	104.5696	-138.225	-13.6692	40.22445	0	2.65363	0	0	384.6659	40
	0	-71.539	0	-138.225	-12.809	37.83652	0	9.639563	0	0	385.4848	41
	0	-68.9674	0	-138.225	-11.9834	35.52359	0	14.76939	0	0	383.7912	42
	0	-62.1635	0	-138.225	-11.1939	33.29347	0		0	0	382.1687	43
	-16.2973	-64.8703	26.1424	-138.225	-10.4417	31.15211	0	5.637645	0	0	378.154	44
	0	-57.3307	0	-138.225	-9.72711	29.10383	0	6.983296	0	0	380.388	45
	0	-58.0542	0	-138.225	-9.05036	27.15142	0	16.99544	0	0	380.079	46
	-24.3759	-62.8482	62 20401	-138.225 -138.225	-8.41113 -7.80881	25.29637	0	15.57896 6.294271	0	0	379.6695 376.4627	47
	-24.3759	-71.6351 -56.5798	52.28481	-138.225	-7.80881	21.87867	0	18.11656	0	0	376.4627	48
	0	-59.7907	0	-138.225	-6.71133	20.31389	0		0	0	378.5257	50
-46.94	-19.3971	-56.7543	52.28481	-138.225	-6.21387	18.84251	0			0	374.8615	51
-63.0	-17.9456	-67.8371	52.28481	-138.225	-5.74886	17.46183	0	7.849756		0	373.1833	52
-11.77	-16.5908	-59.7747	52.28481	-138.225	-5.31486	16.16874	0	1.466955	72.69068	0	371.5818	53
	0							4.831836			2022 0240	
		-68.633	0	-138.225	-4.91041	14.95979	0	4.031030	0	0	373.5349	54
	0	-61.2647	0	-138.225	-4.534	13.83133	0	11.84678	0	0	373.0236	55
	0	-61.2647 -65.8133	0	-138.225 -138.225	-4.534 -4.18411	13.83133 12.77955	0	11.84678 16.49816	0	0	373.0236 372.6497	55 56
	0 0 -6.02347	-61.2647 -65.8133 -64.3014	0 0 26.1424	-138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924	13.83133 12.77955 11.80056	0	11.84678 16.49816 14.04005	0 0	0	373.0236 372.6497 372.5973	55 56 57
	0 0 -6.02347 0	-61.2647 -65.8133 -64.3014 -63.1807	0 0 26.1424 0	-138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791	13.83133 12.77955 11.80056 10.89045	0 0	11.84678 16.49816 14.04005 3.977431	0 0 0	0 0 0	373.0236 372.6497 372.5973 372.9839	55 56 57 58
	0 0 -6.02347 0	-61.2647 -65.8133 -64.3014 -63.1807 -67.773	0 0 26.1424 0	-138.225 -138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791 -3.27868	13.83133 12.77955 11.80056 10.89045 10.04533	0 0 0 0	11.84678 16.49816 14.04005 3.977431 4.015103	0 0 0 0	0 0 0 0	373.0236 372.6497 372.5973 372.9839 373.9521	55 56 57 58 59
	0 -6.02347 0 0	-61.2647 -65.8133 -64.3014 -63.1807 -67.773 -60.3637	0 0 26.1424 0 0	-138.225 -138.225 -138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791 -3.27868 -3.02016	13.83133 12.77955 11.80056 10.89045 10.04533 9.261387	0 0 0 0 0	11.84678 16.49816 14.04005 3.977431 4.015103 11.1634	0 0 0 0	0 0 0 0	373.0236 372.6497 372.5973 372.9839 373.9521 374.824	55 56 57 58 59 60
	0 0 -6.02347 0 0 0 -87.189	-61.2647 -65.8133 -64.3014 -63.1807 -67.773 -60.3637 -65.9041	0 26.1424 0 0 0 104.5696	-138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791 -3.27868 -3.02016 -13.9655	13.83133 12.77955 11.80056 10.89045 10.04533 9.261387 28.96291	0 0 0 0 0 0	11.84678 16.49816 14.04005 3.977431 4.015103 11.1634 8.161682	0 0 0 0 0	0 0 0 0 0 0 0 40.01451	373.0236 372.6497 372.5973 372.9839 373.9521 374.824 372.9461	55 56 57 58 59 60 61
	0 -6.02347 0 0	-61.2647 -65.8133 -64.3014 -63.1807 -67.773 -60.3637	0 0 26.1424 0 0	-138.225 -138.225 -138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791 -3.27868 -3.02016	13.83133 12.77955 11.80056 10.89045 10.04533 9.261387	0 0 0 0 0	11.84678 16.49816 14.04005 3.977431 4.015103 11.1634	0 0 0 0	0 0 0 0	373.0236 372.6497 372.5973 372.9839 373.9521 374.824	55 56 57 58 59 60
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	0 0 -6.02347 0 0 0 -87.189 0 0 0	-61.2647 -65.8133 -64.3014 -63.1807 -67.773 -60.3637 -65.9041 -61.4095 -59.358	0 26.1424 0 0 0 104.5696 0 0	-138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225	-4.534 -4.18411 -3.85924 -3.55791 -3.27868 -3.02016 -13.9655 -13.0942 -12.2568 -11.455 -10.6902	13.83133 12.77955 11.80056 10.89045 10.04533 9.261387 28.96291 27.01733 25.16918	0 0 0 0 0 0 0 3.016733 6.033466	11.84678 16.49816 14.04005 3.977431 4.015103 11.1634 8.161682 17.06099 3.810166	0 0 0 0 0 0 0	0 0 0 0 0 0 40.01451 0	373.0236 372.6497 372.5973 372.9839 373.9521 374.824 372.9461 376.5186 377.5054	55 56 57 58 59 60 61 62 63
	0 -6.02347 0 0 0 -87.189 0 0 0	-61.2647 -65.8133 -64.3014 -63.1807 -67.773 -60.3637 -65.9041 -61.4095 -59.358 -64.5422 -61.8747 -63.3749	0 26.1424 0 0 0 104.5696 0 0 0	-138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -138.225 -145.597	-4.534 -4.18411 -3.85924 -3.55791 -3.27868 -3.02016 -13.9655 -13.0942 -12.2568 -11.455 -10.6902 -9.96292	13.83133 12.77955 11.80056 10.89045 10.04533 9.261387 28.96291 27.01733 25.16918 23.41869 21.76516 20.20704	0 0 0 0 0 0 0 3.016733 6.033466 12.06693	11.84678 16.49816 14.04005 3.977431 4.015103 11.1634 8.161682 17.06099 3.810166 17.94478 3.060866 0.445662	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 40.01451 0 0 0	373.0236 372.6497 372.5973 372.9839 373.9521 374.824 372.9461 376.5186 377.5054 378.6312 379.6918 380.9009	55 56 57 58 59 60 61 62 63 64 65 66
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	-6.023474 -6.023474 -0.00000000000000000000000000000000000	6.1.264 6.5.813 6.5.81	0 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.25 13	4.1341.1 4.1841.1 4.1841.1 4.1851.1 4.1	13.83133 (12.77955 (12.77955 (13.89056 (13.890	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.846/97816 14.04005 3.97/1431 15.1616 14.04005 3.97/1431 15.1616 15.1616 17.06099 17.06099 17.06099 17.06099 18.2985 17.06099 18.2985 17.06099 18.2985 17.066606 18.5985 17.066606 18.5985 18.6983 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.2453 372.5473 372	555 566 577 588 599 601 622 633 644 655 666 677 777 778 779 80 81 82 83 84 85 86 87 88 88
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	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1.64 6.3 180	0 104.5696 0 104.5696	138.225 138.25 138.25	4.534.184.114.484.114.184.114.184.114.184.114.184.114.184.114.184.114.184.114.184.114.184.18	13.83133 (12.77955) 11.80054) 12.77955) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.8016) 11.80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/27 (1.146/2014) 11.164/2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.697 372.697 372.697 372.697 372.697 373.952 373.3952 373.3952 373.3952 373.3952 374.617 375.617 376.5186 37	55 56 57 58 59 60 61 62 63 64 65 66 67 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 88 89 90 90 90 90 90 90 90 90 90 9
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	63.1807 65.8133 66.3014 65.8133 66.3014 66.3016 66.3016 66.3017 61.002 66.3017 61.002 66.3017 67.773 67.703 67.7042	0 104.5696 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.25 138.25	4.13411 3.85924 4.184111 3.85924 4.185711 3.27868 3.02016 13.9655 1	13.83133 (12.77955) 11.80054) 12.77955) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.8016) 11.80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/27 (1.146) 11.164 11.16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.697 372.697 372.697 372.697 372.697 373.952 373.3952 373.3952 373.3952 373.3952 374.617 375.617 376.5186 37	55 56 57 58 60 61 62 63 64 65 66 67 70 77 78 80 81 82 83 84 85 86 87 99 90 91 92
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1.264 6.3 180 6.3 18	0 104.5696 6	138.225 138.25 138.25	4.534.1 3.85924.2 4.184111.3 3.85924.2 4.185791.3 3.02016.3	13.83133 (12.77955) 11.80054) 12.77955) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.80054) 11.8016) 11.80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/27 (1.146/2014) 11.164/2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372 973 372 973 372 973 372 973 372 973 373 9521 273 973 972 973 973 972 973 973 972 973 973 972 973 973 972 973 973 974 974 974 974 974 974 974 974 974 974	55 56 57 58 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 89 90 90 90 90 90 90 90 90 90 9
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-6.1.64 -6.3.180 -6.3	0 104.5696 696 696 696 696 696 696 696 696 696	138.225 138.25 138.25	4.534.14.14.14.14.14.14.14.14.14.14.14.14.14	13.83133 (12.77955) 11.800565 (13.8707) 12.77955 (13.8707) 11.800565 (13.8707) 12.77957 (13.8707) 12.77957 (13.8707) 13.8707 (13.8707) 14.8707 (13.8707) 14.8707 (13.8707) 15.8707 (13.8707) 16.5807 (13.8707) 16.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.14678 (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.146788) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.14678) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.1467888) (1.1.14678888) (1.1.1467888) (1.1.14678888) (1.1.14678888) (1.1.146788888) (1.1.14678888) (1.1.146788888) (1.1.1467888888) (1.1.1467888888) (1.1.146788888888) (1.1.1467888888888888888888888888888888888888	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.973 372.973 372.973 372.973 373.9521 373.952 373.9	555 566 577 588 599 60 611 622 63 64 655 667 77 78 77 78 77 78 80 81 82 83 84 85 86 87 90 91 92 93 94 95
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	63.1807 63.8133 65.8131 65.813	0 104.5696 0 26.1424 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 145.597	4.534.1.4.6.4.6.4.6.4.6.4.6.4.6.4.6.4.6.4.6.	13.83133 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/278 (14.04005) 14.04005 15.07411 (14.04005) 14.04005 15.07411 (14.04005) 15.07411 (14.04005) 16.07411 (14.04005) 17.06005 17.06005 18.07411 (14.04005) 18.07411	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372, 293, 372, 293, 372, 293, 372, 293, 373, 292, 373, 392, 293, 373, 392, 293, 373, 392, 293, 373, 392, 293, 373, 392, 294, 374, 392, 374, 374, 374, 374, 374, 374, 374, 374	555 566 577 588 599 600 611 622 633 644 655 666 677 777 788 799 801 818 828 838 848 859 901 919 929 939 949 959 969
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-6.1.64 -6.5 -6.3 -1.80 -6.5 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3	0 104.5696 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.25 138.25	4.534.184.141.184.184.184.184.184.184.184.18	13.83133 (12.7955) 13.800565 (13.8907) 14.800565 (13.8907) 15.800565 (13.8907) 15.800565 (13.8907) 15.800565 (13.8907) 15.80056 (13.8907) 15.8006 (13.8907) 15.8006 (13.8907) 15.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.14678 (1.14678) (1.1467	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.972.973 372.972.973 372.972.973 373.9521 373.9521 374.9421 375.972.9461 376.9188 377.9461 376.9188 377.9461 378.912 379.9618 380.9009 379.9668 380.9009 379.9668 381.9619	555 566 577 60 61 62 63 64 65 66 67 71 72 73 74 77 78 80 81 82 83 84 85 86 87 90 91 92 93 94 95 97
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1.264 6.3.180 6.5.813 6.6.3014 6.5.816 6.5.813 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.1.000 6.0.3017 6.1.000 6.0.3017 6.1.000 6.5.9014 6.1.000 6.5.9014 6.3.3746 6.5.9014 6.3.3746 6.3	0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 145.597	4.534.1.4.54.1.4	13.83133 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.18478 (14.04005) (1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372, 293, 372, 393, 372, 393, 372, 393, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 392	555 566 577 60 61 62 63 64 65 66 67 71 72 73 74 77 78 81 82 83 84 85 86 87 90 91 92 93 94 95 97 98
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-6.1.264 -6.3.1807 -6.3.18	0 104.5696 1	138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 138.225 145.597	4.534.184.184.184.184.184.184.184.184.184.18	13.83133 (1.2) (1.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/27 (1.2) (1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372 972 6197 372 973 372 983 372 983 373 9521 273 973 973 974 974 974 974 974 974 974 974 974 974	555 566 577 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77 80 81 82 83 84 85 87 88 89 90 91 92 93 94 95 96 97 98 98 99 99 99 99 99 99 99 99
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1.264 6.3.180 6.5.813 6.6.3014 6.5.816 6.5.813 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.1.000 6.0.3017 6.1.000 6.5.9014 6.1.000 6.5.9014 6.1.000 6.5.9014 6.3.3746 6.5.2406 6.7.0423 6.5.2406 6.7.0423 6.7	0 104.5696 104.28481 104.5696 106.00 104.5696 106.00 104.5696 106.00 104.5696 106.00 1	138.225 138.22	4.1341.14.14.14.14.14.14.14.14.14.14.14.14.1	13.83133 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.18478 (14.04005) (1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372, 293, 372, 393, 372, 393, 372, 393, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 3	55 56 57 58 59 60 61 62 63 64 65 66 67 71 72 73 74 75 77 78 81 82 83 84 85 86 87 90 91 92 93 94 95 96 97 98 99 99 99 99 99 99 99 99 99
		6.1.64 (6.3.187 (6.3.	0 104.5696 0 26.1424 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.25 1	4.134.14.14.14.14.14.14.14.14.14.14.14.14.14	13.83133 (1.2) (1.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.146/27 (1.146/27) (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372 973 372 973 372 973 372 973 373 9521 973 373 9521 973 374 974 974 974 974 974 974 974 974 974 9	55 56 57 58 59 60 61 62 63 64 65 66 67 71 72 73 74 75 76 80 81 82 83 84 85 86 87 99 90 91 92 93 94 95 96 97 98 98 99 90 90 91 91 91 91 91 91 91 91 91 91
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-6.1.64 -6.5 -6.3 -1.80 -6.5 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3 -6.3	0 104.5696 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.25 138.25	4.534.184.141.184.184.184.184.184.184.184.18	13.83133 (12.7955) 13.800565 (13.8907) 14.800565 (13.8907) 15.800565 (13.8907) 15.800565 (13.8907) 15.800565 (13.8907) 15.80056 (13.8907) 15.8006 (13.8907) 15.8006 (13.8907) 15.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.14678 (1.14678) (1.1467	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372.972.973 372.972.973 372.972.973 373.9521 373.9521 374.9421 375.972.9461 376.9188 377.9461 376.9188 377.9461 378.912 379.9618 380.9009 379.9668 380.9009 379.9668 381.9619	555 566 577 60 61 62 63 64 65 66 67 71 72 73 74 77 78 80 81 82 83 84 85 86 87 90 91 92 93 94 95 97
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.1.264 6.3.180 6.5.813 6.6.3014 6.5.816 6.5.813 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.5.8180 6.6.3014 6.1.000 6.0.3017 6.1.000 6.5.9014 6.1.000 6.5.9014 6.1.000 6.5.9014 6.3.3746 6.5.2406 6.7.0423 6.5.2406 6.7.0423 6.7	0 104.5696 0 26.1424 0 104.5696 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	138.225 138.22	4.134.14.14.14.14.14.14.14.14.14.14.14.14.14	13.83133 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11.18478 (14.04005) (1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	372, 293, 372, 393, 372, 393, 372, 393, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 373, 3921, 3	

<u>Table 5: DueTo table for product 138936951</u>

			nai-	wat -							paidsearc	fluc .		diec ·	fb
base	flyer	email	paid_sear	web_sear	tv radio	price	discount	store	on	h_season ality	h_holida	ddsearch	ty radio	discount	ount
1 459.8117			-48.8488	0	0	0 -351.107		57.45415		37.61931	0		0	0	
2 458.9065	0	-3.82051	-30.0279	0	0	0 -351.107	0	57.45415	-18.9774	22.70048	0	0	0	0	
3 458.2446		-3.82051		0	0	0 -351.107		57.45415		23.93528	0				
4 458.1519	0			0	0	0 -351.107		57.45415		18.77321	0				
5 458.8361 6 441.454	0			0	0	0 -351.107		57.45415 0		2.540069	11.52087		0		
7 462.0937	0		-24.079	0	0	0 -351.107	_				0		0		
8 463.7355	0			0	0	0 -351.107					0		0		
9 465.0936	0			0	0	0 -351.107		57.45415		1.448422	0	0	0	0	
10 466.8405	0			0	0	0 -351.107		57.45415		20.31538	0			_	
11 468.8335	0 40.0			0	0	0 -351.107		57.45415		3.513914	0		0		
12 451.6149 13 453.7553	49.1169			0	0	0 -351.107		57.45415 57.45415		4.895021	15.23898	-48.469	0		
14 475.6327	0		_	0	0	0 -351.107	_	57.45415		36.20061	0	_	0		_
15 477.5949	0	-3.82051	-12.5302	0	0	0 -351.107	, 0	57.45415			0	0	0	0	
16 460.9443	49.1169			0	0	0 -351.107	44.85228			22.29898		-41.9931	0	-52.4403	-18.8
17 463.2533	0			0	0	0 -351.107		57.45415	21111111	3.670143		0	0		
18 465.792 19 487.7713	49.1169			0	0	0 -351.107		57.45415 57.45415		10.56842	5.849604		0		
20 490.448		-3.82051		0	0	0 -351.107		57.45415		59.53635	0				
21 474.0155	0			0	0	0 -351.107		57.45415		7.333344					
22 496.8899	0	-3.82051	-29.0465	0	0	0 -351.107	, 0	57.45415	-23.5464	39.1901	0	0	0	0	
23 481.8359	49.1169	-3.82051		0			89.70455				22.89433		_	0	_
24 504.8776	0	-3.82051		0	-25.1737 49.3			57.45415			0	_	_	0	_
25 508.2256	0			0	-23.7346 45.8 -22.3326 42.5			57.45415		8.657857 26.57698	0	_		0	_
26 511.3877 27 514.8101	49.1169			-19.9623	-22.3326 42.5			57.45415		56.54102	0	_		-52.4403	
28 517.3403	49.1109			-9.98113	-19.6623 36.4			57.45415		69.93594	0			-32.4403	_
29 518.3921	0	-3.82051	-29.8918	-19.9623	-18.4024 33.7	1246 -351.107	, 0	57.45415	-20.6715	50.36919	0	0	-16.9232	0	
30 518.0999	49.1169	-3.82051		-14.9717	-17.1966 31.1			57.45415		49.19921	. 0				
31 517.0883	0	-3.82051		-19.9623	-16.0465 28.7			57.45415		70.66878	0	_		0	_
32 496.0797	0			0	-14.9533 26.5					13.69212		0		0	_
33 493.5573	0		-39.837 -14.2352	0	-13.9171 24.5 -12.9378 22.6			57.45415		21.85545	25.61678	0		0	
35 504.4634	0			0		.842 -377.506		57.45415		48.35981	0			0	
36 500.2943	0			0				57.45415		27.11188	0	0		0	
37 496.27	0			0		377.506		57.45415		24.10917	0			0	
38 492.1835	0			0	-9.56691 16.2		_	57.45415	2015 025	55.72938	0			0	_
39 488.473 40 465.3866	49.1169	-3.82051 -3.82051		0	-8.85266 14.9 -23.5063 82.1			57.45415 57.45415		20.20262 8.329195	4.635461		-3.61956 -52.7071	-104.881	
41 480.9664	49.1169	-3.82051		0	-23.3063 82.1			57.45415		28.81838		_		-104.881	
42 477.9682	0			0	-20.7592 72.0		_	57.45415			0			0	_
43 475.0959	0	-3.82051	-2.70478	0	-19.456 67.3	1444 -377.506		57.45415	-22.449	2.728672	0	0	-35.7255	0	
44 453.8587	49.1169			0				57.45415			9.848051	-31.3227		-52.4403	-18.8
45 471.9436	0			0		1937 -377.506		57.45415			0			0	_
46 471.3966	0			0			_	57.45415		43.90889	0			0	
47 470.6716 48 450.8647	49.1169	-3.82051 -3.82051		0	-14.7827 50.5 -13.7557 46.9			57.45415 57.45415			10.99507	-34,9709		-52,4403	
49 450.276	49.1109	-3.82051		0	-12.7854 43.5	_						-34.5709		-32.4403	
50 468.6468	0	-3.82051		0	-11.871 40.3			57.45415		5.438472	0	0		0	
51 448.03	0	0	-15.8869	0	-11.0112 37.3	6692 -377.506	44.85228			14.04972	10.21591	0	-11.2237	-52.4403	
52 445.0592	49.1169		-21.3241	0			44.85228			_	13.71225	_	_		
53 442.2241	49.1169	-3.82051		0				57.45415 57.45415		3.162838	2.562533			-52.4403 0	
55 458.9065	0			0				57.45415		24.32902	0			0	_
56 458.2446	0			0	-7.46809 25.1			57.45415			0			0	
	0	-3.82051		0	-6.89599 23.20						0	0		-52.4403	
57 458.1519					-6.36414 21.3		0	57.45415	-20.2839	8.15634	0	0			
58 458.8361	0	-3.82051	-10.8048	0				37.43433	-20.2033		0	- 0	_	0	
58 458.8361 59 460.5502	0	-3.82051	-10.9071	0	-5.87027 19.7			57.45415	-20.323	8.525594	. 0	0	-3.7143 -3.15719	0	
58 458.8361 59 460.5502 60 462.0937	0	-3.82051 -3.82051	-10.9071 -30.3257	0	-5.87027 19.7 -5.41215 18.1	3163 -377.506	0	57.45415 57.45415	-20.323 -20.0561	24.43522	0	0	-3.7143 -3.15719 -2.68128	0	
58 458.8361 59 460.5502 60 462.0937 61 444.6393	0 0 49.1169	-3.82051 -3.82051 -3.82051	-10.9071 -30.3257 -22.1714	0	-5.87027 19.7 -5.41215 18.1 -16.9253 83.9	3163 -377.506 3109 -377.506	89.70455	57.45415 57.45415 57.45415	-20.323 -20.0561 -23.7415	24.43522 18.43337	0 0 14.25713	0 0 -45.3462	-3.7143 -3.15719 -2.68128 -38.7735	0 0 0 -104.881	-37.7
58 458.8361 59 460.5502 60 462.0937 61 444.6393 62 465.0936	0 0 49.1169 0	-3.82051 -3.82051 -3.82051 -3.82051	-10.9071 -30.3257 -22.1714 -46.3467	0 0 -4.99057	-5.87027 19.7 -5.41215 18.1 -16.9253 83.9 -15.7883 78.	3163 -377.506 3109 -377.506 7416 -377.506	89.70455 0	57.45415 57.45415 57.45415 57.45415	-20.323 -20.0561 -23.7415 -21.176	24.43522 18.43337 39.51574	0 0 14.25713 0	-45.3462 0	-3.7143 -3.15719 -2.68128 -38.7735 -33.9124	0 0 0 -104.881	-37.7
58 458.8361 59 460.5502 60 462.0937 61 444.6393	0 0 49.1169	-3.82051 -3.82051 -3.82051 -3.82051	-10.9071 -30.3257 -22.1714 -46.3467 -10.3504	0	-5.87027 19.7 -5.41215 18.1 -16.9253 83.9	5163 -377.506 5109 -377.506 7416 -377.506 5575 -377.506	89.70455 0 0	57.45415 57.45415 57.45415	-20.323 -20.0561 -23.7415 -21.176 -21.5222	24.43522 18.43337	0 0 14.25713	0 0 -45.3462 0	-3.7143 -3.15719 -2.68128 -38.7735 -33.9124 -29.5721	0 0 0 -104.881	-37.7
58 458.8361 59 460.5502 60 462.0937 61 444.6393 62 465.0936 63 466.8405	0 0 49.1169 0	-3.82051 -3.82051 -3.82051 -3.82051	-10.9071 -30.3257 -22.1714 -46.3467 -10.3504 -48.7475	0 0 0 -4.99057 -9.98113	-5.87027 19.7 -5.41215 18.1 -16.9253 83.9 -15.7883 78. -14.7083 73.7	5163 -377.506 5109 -377.506 7416 -377.506 5575 -377.506 3446 -377.506	6 0 6 89.70455 6 0 6 0	57.45415 57.45415 57.45415 57.45415 57.45415	-20.323 -20.0561 -23.7415 -21.176 -21.5222 -24.215	24.43522 18.43337 39.51574 9.107297	0 0 14.25713 0	0 0 -45.3462 0 0	-3.7143 -3.15719 -2.68128 -38.7735 -33.9124 -29.5721 -25.7155	0 0 0 -104.881 0	-37.7
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58 458.8361 59 460.5502 60 462.0937 61 444.6393 62 465.0936 63 466.8405 64 468.8335 65 470.7112 66 472.8516 67 456.5364	0 49.1169 0 0 0 0 0 49.1169	-3.82051 -3.82051 -3.82051 -3.82051 -3.82051 -3.82051 -3.82051 -3.82051	-10.9071 -30.3257 -22.1714 -46.3467 -10.3504 -48.7475 -8.31493 -1.21065 -27.187	0 0 -4.99057 -9.98113 -19.9623 -14.9717 -4.99057 0	-5.87027 19.7 -5.41215 18.10 -16.9253 83.93 -15.7883 78. -14.7083 73.77 -13.6854 68.8 -12.7191 64.27 -11.8086 59.9 -10.9525 55.77	3163 -377.506 3109 -377.506 7416 -377.506 5575 -377.506 3446 -377.506 3507 -377.506 1173 -403.905 5582 -403.905	6 00 6 89.70455 6 0 6 0 6 0 6 0 6 0 6 44.85228	57.45415 57.45415 57.45415 57.45415 57.45415 57.45415 57.45415 57.45415	-20.323 -20.0561 -23.7415 -21.176 -21.5222 -24.215 -21.7305 -27.5727 -20.9261	24.43522 18.43337 39.51574 9.107297 44.41013 7.818948 1.178911 27.65508	0 14.25713 0 0 0 0 0 17.48235	0 -45.3462 0 0 0 0 0 0	-3.7143 -3.15719 -2.68128 -38.7735 -33.9124 -29.5721 -25.7155 -22.304 -19.2986 -16.6609	0 0 -104.881 0 0 0 0 0	-37.7
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58 458.8161 59 460.5027 60 462.0937 61 444.6393 61 444.6393 63 466.8405 64 468.8133 65 470.7112 66 476.818 67 456.5364 68 498.498 69 460.9483 71 465.792 72 487.7713 76 481.8359 76 481.8359 77 490.448 81 517.4303 82 518.8302 83 484.829 84 497.992 85 496.079 85 518.850 86 512.6536 87 508.8002 88 544.682 99 492.291 99.2183 99 492.292 91 492.183 99 492.293 91 492.183 92 4692.786 93 484.4829 94 492.839 95 477.9682 95 477.9682 96 458.5996 97 477.9682 98 41.9436 99 484.829	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,82051 3,82051	-0.9907. 39.03257 5.03	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.87027 50.7 5.61215 51.87 16.9233 81.9 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7893 68.8. 15.7893 68.8. 15.7893 68.8. 15.7893 68.8. 15.7894 78.8. 15.7894 78	5163 377.50646 1100 377.50646 177.516	\$ 8.90	\$7.45413 \$7.45413 \$7.45415 \$7.	-20.32 (20.55)	9.4.382.29 3.9.515.74 4.4.41613 3.9.515.74 4.4.41613 2.4.590 3.2.210 3.2.210 3.2.210 3.2.210 3.2.210 3.2.210 3.3.210	0 14.25713340 0 14.2571340 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.7143 (1.1579) (1.1574) (1.15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-37.7 -18.8 -37.7 -18.8 -37.7
58 458.8161 50 460.20937 61 444.6393 61 444.6393 63 466.8405 64 468.833 65 470.7112 66 472.8516 67 455.5364 68 478.471 70 483.2533 77 483.2533 77 483.2533 78 508.2526 79 5113.877 88 508.2256 79 5113.877 80 518.810 81 517.3403 81 517.3403 82 548.481 83 518.8999 84 49.992 85 496.079 86 512.653 87 508.8049 88 504.653 88 504.653 88 504.653 89 509.2934	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,82051 3,82051	1.09071 39.3257 39.325	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5-87027 19.7. 5-81215 18.1. 16.92-33 83.9. 15.78-83 78. 15.78-83 78. 13.68-95 66.8. 13.18-95 67. 10.14-93 51.8. 10.92-15 57. 10.14-93 51.8. 10.92-15 57. 10.14-93 51.8. 10.92-15 57. 10.14-93 51.8. 10.92-15 57. 10.14-93 51.8. 10.92-15 70. 10	5163 377.50646 1109 377.50646 1175.7567 1173 403.507 1173 403.507 1174 403.507 1174 403.507 1175 403.507 1	89.704555 89.704555 89.704555 89.704555 89.70455 89.70455 89.70456	57.45415 57.45415	20.32 (20.56)	M.4352.75 38.515747.78 39.51	0 14.25713130 0 14.25713131 0 14.25713131 0 15.257131 0 17.0685116 1 17.0685116 1 17.0685116 1 17.0685116 1 18.4333 0 17.0685116 1 18.4333 0 17.0685116 1 18.4333 0 17.0685116 1 18.4333 0 17.068511 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.7143 (1579) (1570) (1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-37.7 -18.8 -37.7 -18.8 -18.8
58 458.8161 59 460.5027 60 462.0937 61 444.6393 61 444.6393 63 466.8405 64 468.8133 65 470.7112 66 476.818 67 456.5364 68 498.498 69 460.9483 71 465.792 72 487.7713 76 481.8359 76 481.8359 77 490.448 81 517.4303 82 518.8302 83 484.829 84 497.992 85 496.079 85 518.850 86 512.6536 87 508.8002 88 544.682 99 492.291 99.2183 99 492.292 91 492.183 99 492.293 91 492.183 92 4692.786 93 484.4829 94 492.839 95 477.9682 95 477.9682 96 458.5996 97 477.9682 98 41.9436 99 484.829	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.82051 3.8	-0.9907. 39.03257 5.03	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.87027 50.7 5.61215 51.87 16.9233 81.9 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7883 78. 15.7893 68.8. 15.7893 68.8. 15.7893 68.8. 15.7893 68.8. 15.7894 78.8. 15.7894 78	5163 377.506 1409 377.506 1410 377.506 1416 377.506 15575 377.506 1575 377.506 1575 377.506 1577 377.506 1577 377.506 1572 377.506 1582 403.903 1582 403.903 1583 403.903 1584 403.903 1584 403.903 1584 403.903 1584 403.903 1585 403.903 1596 403.903 1597 403.903 1598 403.903 1591 403.903 1593 403.903 1594 403.903 1597 403.903 1598 403.903 1591 403.903 1593 403.903 1594 403.903 1595 403.903 1591 403.903 <td>8 89.704559 8 8 89.704559 9 44.8522828 9 4 44.8522828 9 5 8 89.704559 9 6 8 89.704559 9 7 8 8 89.704559 9 8 89.70459 9 8 8 89.70459 9 8 8 89.70459 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>57.45415 57.45415</td> <td>-20.32 (20.55)</td> <td>M.4352.75 38.515747.78 39.51</td> <td>0 14.25713 1</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>3.7143 (1.1579) (1.1574) (1.15</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>-37.7 -18.8 -37.7 -18.8 -37.7</td>	8 89.704559 8 8 89.704559 9 44.8522828 9 4 44.8522828 9 5 8 89.704559 9 6 8 89.704559 9 7 8 8 89.704559 9 8 89.70459 9 8 8 89.70459 9 8 8 89.70459 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	57.45415 57.45415	-20.32 (20.55)	M.4352.75 38.515747.78 39.51	0 14.25713 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.7143 (1.1579) (1.1574) (1.15	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-37.7 -18.8 -37.7 -18.8 -37.7

Table 6: DueTo table for product 138936952

	base	flyer	email	paid_sear	web_sear	tv	radio	price	discount	store	competiti	flyer_em ail	websearc h_comp		flyer_co mp	paidsearc h_store	
	4.281088		0	-0.53903	0	0	0	1.613564	C	0	-0.13865	(0	(0 0	0	
	4.132525	0		-0.33135				1.613564	0				0 0				
3				-0.35421		0		1.613564 1.613564		_		(_			_
5	4.120978	0						1.613564	C	0		(0 0	(
6	3.437548		0		0			1.613564		0		(
7 8	4.655626	0	0		. 0			1.613564 1.613564	0	0		(0	
9			0		0	0		1.613564			_					0	
10		0	0	-0.25477	0	0		1.613564	C	0	-0.16778	(0 0	(0 0	0	
11		_		_		0		1.613564	0			(_		0	_
12	5.456492			-0.2615		0		1.613564	3.800321	0		(_		_	
	6.877693					0		1.613564	0			(
	7.199737			-0.13827				1.613564	C			(
	6.636368			-0.22656		0		1.613564		0			0 0			0	
	7.015342			-0.10038		0		1.613564		0		(_	_		_
	8.869926		0	_		0		1.613564				(0	
20			0					1.613564				(
21			0			0		1.613564 1.613564				(0 0			0	
23		_	0									(
24	11.67748	0	0				-14.4235	1.613564	C	0		(0	
	12.22696			-0.06259	_	20.09612		1.613564	0			(_	_		_
	12.74593			-0.18612		18.90904 17.75836		1.613564		0		(2.789278			0	
	13.72289	0 0		-0.38297		16.64809		1.613564	3.800321				1.743298				
29	13.89552		0	-0.32984	36.34191	15.58133	-9.84462	1.613564	C	0	-0.0918		2.091958	(0	0	-21.29
	13.84757			-0.32306				1.613564					29.8104				
	13.68153			-0.46844		13.58659		1.613564	7 600643	0			8.367833				
	12.40292	-1.32364	0	-0.09242		12.66094		1.613564	7.600642	0		(0	
	12.32204	_		-0.15708		10.95443		1.721207	0			(_			0	
35	11.60949		0	_		10.17264		1.721207	C				0 0				
36 37	10.92524	6 0	0		_	9.437258 8.746984		1.721207	0	0		(0	-
38		0	0			8.100306		1.721207	0							0	
	8.985094	_	0			7.495547		1.721207	0		_	(0	
40			0			19.90279			19.0016			(
41				-0.28895		18.72126		1.721207	0		_	(_		0	_
	7.260998 6.789586			-0.44272		17.57684		1.721207	0			(0	
	5.473463			-0.16899		15.41386		1.721207		0							
45	6.272228		0	-0.20933		14.40038		0		0		(0				
	6.182448			-0.50945		13.43434		1.721207	0			(
	6.063452 4.982071	-1,32364	0	-0.46699		12.51648		1.721207	7,600642	0	_	(_	
49			0			10.82542		1.721207	7.000042				0 0				
50			0					1.721207	C								
51						9.323147		1.721207		0						0	
	4.029249		0.227511			8.639997		1.721207		0						0	
53 54	3.563944 4.281088	-1.32364	0.227511			7.402005		1.721207	7.600642	0		-14.6467				0	
	4.132525	0	_	-0.35512		6.843651			0	_				_		0	
	4.023891			-0.49454		6.323236		0	C			(
	4.008682			-0.42086		5.838837		1.721207	0			(_
	4.120978	1 0		-0.11923		5.388521 4.970363		1.721207	0								
	4.655626	_		-0.33463				1.721207	0								
61	3.96033	-1.32364		-0.24465		14.33065	-24.5239	1.721207	19.0016	-7.09896				(17.88252	
62						13.368		1.721207	0				7.321854				
63 64								1.721207	0			((
65	6.069955		0						0				10.45979			0	
66		, c	0	-0.01336	9.085478	9.998309		0	C		-0.55958	(0	0	
67	5.912939		0			9.273492		1.82885		0		(
68			0			8.593453 7.956634		1.82885	7.600642	0	0115011	(0	_
	7.015342	2 0		-0.31665		7.361326		1.82883	7.600642			(_		0	
71	7.431997			-0.15557				1.82885	19.0016			(
	8.869926	_		-0.40898		18.64739		1.82885	0	_	_		0 0	_			_
	9.309235	0		-0.54239		17.50547	-16.1727 -15.0345	1.82885 1.82885	0		-0.67569 -0.17726	(0 0				
		-1.32364	0	-0.36258	0		-25.5423								28.04817		
76	10.06517	, c	0	-0.02915	0	21.07342	-23.9761	1.82885	3.800321	0	-0.86451	(0	(0	0	
	11.67748			-0.07761	0		-22.4667				-1.27775		0				
	12.22696			-0.49618		18.68034	-21.018 -19.6328				-0.66985 -0.93711	(0 0				
7.3	13.30763			-0.29746		16.43535			3.800321				0 0				
80			0	-0.23041	0	15.37741	-17.0594	1.82885	0	0	-0.58677	(0	(0 0	0	
81	13.72289			-0.39061		14.36558		1.82885	C								_
81 82	13.72289 13.89552			0.00-		13.40123					-0.79086 -0.38841		0 0				_
81 82 83	13.72289 13.89552 13.84757		0	-0.32703													
81 82 83 84	13.72289 13.89552	0	0	-0.32703 -0.21012 -0.4328	0	12.48506 11.61723		1.82885	0		-0.96308		0	(0	0	
81 82 83 84 85 86	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537	000000000000000000000000000000000000000	0 0	-0.21012 -0.4328 -0.53101	0 0	12.48506 11.61723 10.79738	-12.701 -11.7692	1.82885 1.82885	C	0	-0.85192	(0	(0 0	0	
81 82 83 84 85 86	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204	000000000000000000000000000000000000000	0 0 0	-0.21012 -0.4328 -0.53101 -0.17781	0 0	12.48506 11.61723 10.79738 10.02479	-12.701 -11.7692 -10.8967	1.82885 1.82885 1.82885	0	0	-0.85192 -0.66018	(0 0	(0 0	0	
81 82 83 84 85 86 87 88	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949		0 0 0	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155	0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836	-12.701 -11.7692 -10.8967 -10.0811	1.82885 1.82885 1.82885 1.82885	3.800321	0	-0.85192 -0.66018 -0.41273	(0 0	(0 0	0	
81 82 83 84 85 86 87 88	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949 10.92524		000000000000000000000000000000000000000	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155	0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762	-12.701 -11.7692 -10.8967 -10.0811 -9.31997	1.82885 1.82885 1.82885 1.82885 1.82885	3.800321	0	-0.85192 -0.66018 -0.41273 -0.60615	(0 0	(0 0	0 0 0	
81 82 83 84 85 86 87 88 89	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949 10.92524 10.26476		000000000000000000000000000000000000000	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155 -0.09319 -0.28716	0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885	3.800321 0	000000000000000000000000000000000000000	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088	(0 0 0	(0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	
81 82 83 84 85 86 87 88 89 90	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949 10.92524		000000000000000000000000000000000000000	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155	0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885	3.800321 0 0 0	000000000000000000000000000000000000000	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	
81 82 83 84 85 86 87 88 89 90 91 92	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949 10.92524 10.26476 9.594069 8.020339 8.330219	000000000000000000000000000000000000000	000000000000000000000000000000000000000	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155 -0.28716 -0.4708 -0.41555 -0.51323	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442 7.381697 19.83824 18.6586	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028	3.800321 0 0 0 0 19.0016	0 0 0 0 0 0 0 0 0 0	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.65892	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(C)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 30.37428	
81 82 83 84 85 86 87 88 89 90 91 92 93	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 11.60949 10.92542 10.26476 9.594069 8.020339 8.330219 7.753074	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155 -0.28716 -0.4708 -0.41555 -0.51323 -0.40783	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442 7.381697 19.83824 18.6586 17.5163	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028	3.800321 0 0 0 0 19.0016	0 0 0 0 0 0 0 0 0 0 0 0 0	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.65892	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	() () () () () () ()	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 28.19125	0 0 0 0 0 0 30.37428	
81 82 83 84 85 86 87 88 89 90 91 92 93 94	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 10.02524 10.26476 9.594069 8.020339 8.330219 7.753074 7.260998	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155 -0.09315 -0.28716 -0.4708 -0.41555 -0.51323 -0.40787 -0.3815	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442 7.381697 19.83824 18.6586 17.5163	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028	3.800321 0 0 0 19.0016	-7.09896	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.65892 -0.59725 -0.51287		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-46.864	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 28.19125 0 0 0	0 0 0 0 0 0 0 30.37428	
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 10.60449 9.594069 8.020339 8.020339 7.753074 7.260998 5.824831	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.4328 -0.53101 -0.17781 -0.14159 -0.09319 -0.28716 -0.4708 -0.41559 -0.40787 -0.3815 -0.42444		12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442 7.381697 19.83824 18.6586 17.5163 16.41514 15.35805	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661 -23.9025	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028 1.775028	3.800321 0 0 0 19.0016	-7.09896	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.65892 -0.59725 -0.51287			-46.864	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 30.37428 0 0	
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 10.02524 10.26476 9.594069 8.020339 8.330219 7.753074 7.260998	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.4328 -0.53101 -0.17781 -0.14155 -0.09319 -0.28716 -0.4705 -0.41555 -0.51322 -0.40787 -0.3815 -0.42444	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.978442 18.6586 17.5163 16.41514 15.35805	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661 -23.9025 -22.3959	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028	3.800321 0 0 0 0 19.0016 0 0	-7.09896	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.65892 -0.59725 -0.51287			-46.8647	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 30.37428 0 0 0	
81 82 83 84 85 86 87 88 89 90 91 92 92 93 94 95 96 97 98	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 10.02524 10.02524 10.26476 9.594069 8.020339 8.03037 7.753074 7.260998 5.824831 6.438218 6.272228 6.182448	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.4328 -0.53100 -0.17781 -0.14159 -0.28716 -0.4708 -0.41559 -0.51322 -0.40781 -0.3815 -0.3815 -0.2816 -0.281	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.381697 19.83824 18.6586 17.5163 16.41514 15.35805 14.3471 13.38365 12.46839	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661 -23.9025 -22.3999 -20.9502 -19.5681	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028 1.775028 1.775028 1.775028	3.800321 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-7.09896 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.59725 -0.51287 -0.52664 -0.15508 -0.24679 -0.37765			-46.8647 ()	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 30.37428 0 0 0 0 0	
81 82 83 84 85 86 87 88 89 90 91 92 92 93 94 95 96 97 98 99	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 10.26476 9.594069 8.020339 8.330219 7.753074 7.260998 5.824831 6.438218 6.272228 6.182486 5.098697	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.43283 -0.53101 -0.17781 -0.14155 -0.09319 -0.4708 -0.41559 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783 -0.40783		12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.381697 19.83824 17.5163 16.41514 15.35805 14.3471 13.38365 12.46839 11.60145	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661 -23.9025 -22.3959 -20.9502 -19.5681 -18.2515	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028 1.775028 1.775028 1.775028 1.775028	3.800321 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-7.09896 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.365892 -0.59725 -0.51287 -0.52664 -0.24679 -0.37765 -0.37765		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-46.8647 ()	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 30.37428 0 0 0 0 0	
81 82 83 84 85 86 87 90 91 92 93 94 95 96 97 98 99 100	13.72289 13.89552 13.84757 12.71678 12.40292 12.9537 12.32204 10.02524 10.02524 10.26476 9.594069 8.020339 8.03037 7.753074 7.260998 5.824831 6.438218 6.272228 6.182448	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.21012 -0.4328 -0.53100 -0.17781 -0.14159 -0.28716 -0.4708 -0.41559 -0.51322 -0.40781 -0.3815 -0.3815 -0.2816 -0.281		12.48506 11.61723 10.79738 10.02479 9.29836 8.616762 7.381697 19.83824 18.6586 17.5163 16.41514 15.35805 14.3471 13.38365 12.46839	-12.701 -11.7692 -10.8967 -10.0811 -9.31997 -8.61064 -7.9505 -30.4414 -28.7427 -27.0816 -25.4661 -23.9025 -22.3959 -20.9502 -19.5681 -18.2515 -17.001	1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.82885 1.775028 1.775028 1.775028 1.775028 1.775028 1.775028	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.85192 -0.66018 -0.41273 -0.60615 -0.43088 -0.36558 -0.54849 -0.59725 -0.51287 -0.52664 -0.15508 -0.24679 -0.37765			(((((((((((((((((((0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 30.37428 0 0 0 0 0 0 0	

Table 7: DueTo table for product 138936953