

## Sri Lanka Institute Of Information Technology

# Predicting Coupon Redemption Data Warehouse

Data Warehouse & Business Intelligence
Assignment II

Kumaran.S IT20211400

## **Introduction**

XYZ Credit Card company regularly helps its merchants understand their data better and take key business decisions accurately by providing machine learning and analytics consulting. ABC is an established Brick & Mortar retailer that frequently conducts marketing campaigns for its diverse product range. As a merchant of XYZ, they have sought XYZ to assist them in their discount marketing process using the power of machine learning.

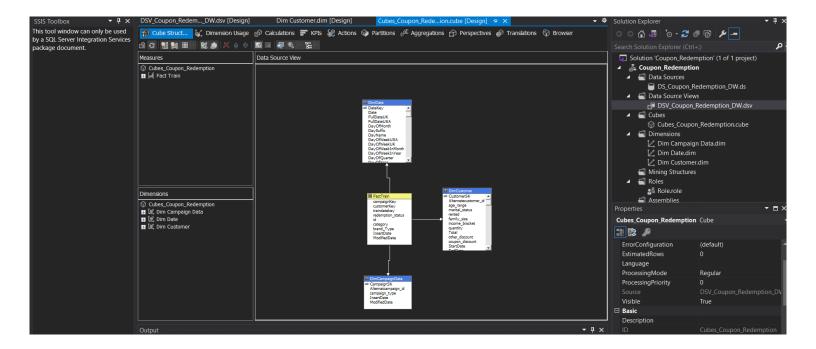
Discount marketing and coupon usage are very widely used promotional techniques to attract new customers and to retain & reinforce the loyalty of existing customers. The measurement of a consumer's propensity towards coupon usage and the prediction of redemption behavior are crucial parameters in assessing the effectiveness of a marketing campaign.

ABC promotions are shared across various channels including email, notifications, etc. A number of these campaigns include coupon discounts that are offered for a specific product/range of products. The retailer would like the ability to predict whether customers redeem the coupons received across channels, which will enable the retailer's marketing team to accurately design coupon construct, and develop more precise and targeted marketing strategies.

The newly created data source view is displayed below.



## **Creating a Data Cube**



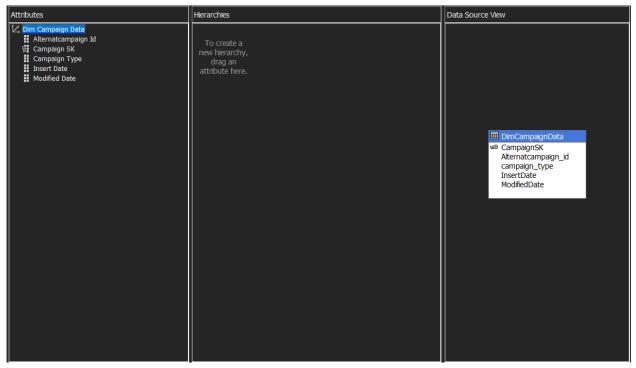


Dimension tables

# **DIMENSIONS**

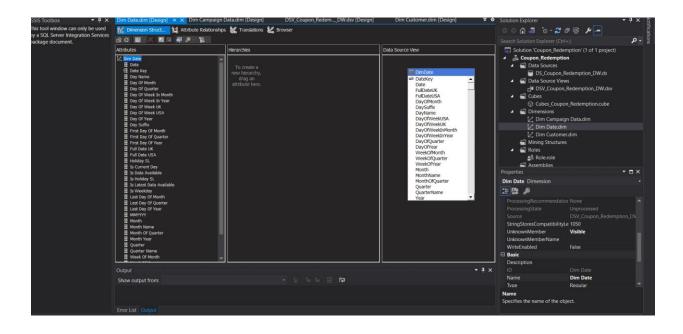
3 dimensions are created for our requirements. DimCampaignData, DimCustomer, and DimDate.

#### **DimCampaignData**

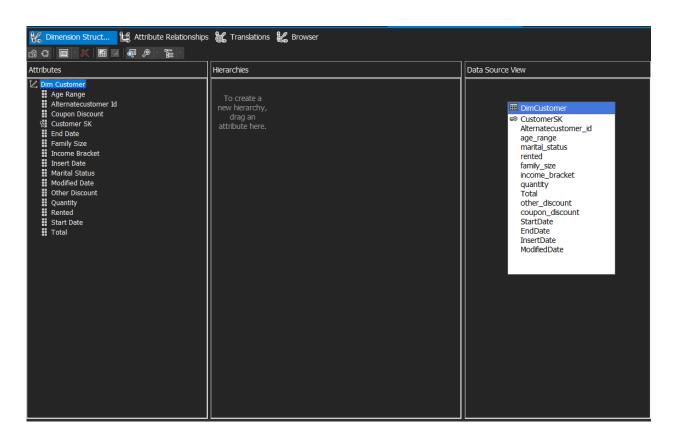


Dim campaign data

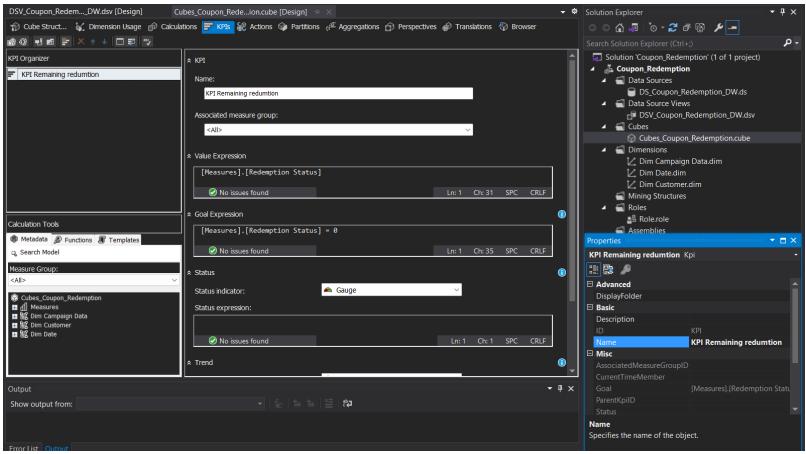
## **DimDate**



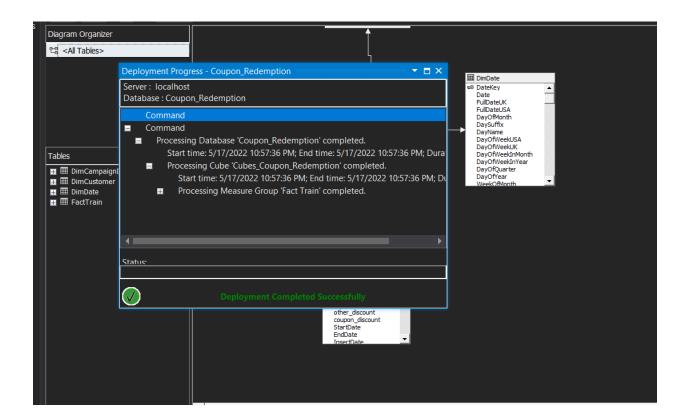
#### **DimCustomer**



#### <u>KPI</u>

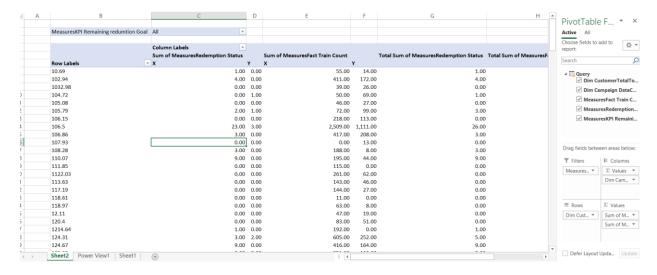


KPI is added to identify redemption status

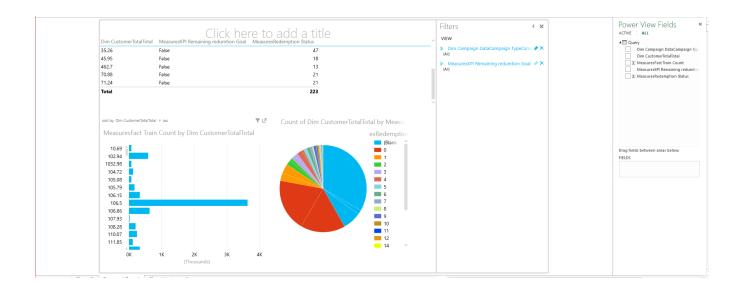


#### **Deployment success**

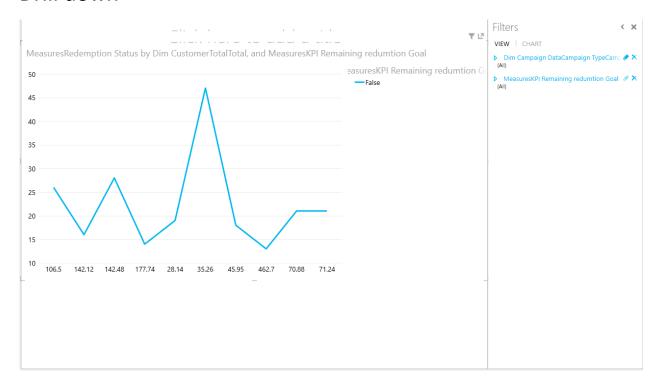
#### **Excel Report**



## Slice & Dice



#### Drill down



		Click born +			Filters ( x
 MeasuresKPI Rem	naining	Click here to	o add a title	<b>▼</b> L <sup>a</sup> _	VIEW   MATRIX
	_	Count of Dim Campaign Data	Campaign TypeCampaign Type	MeasuresRedemption Status MeasuresFact Tra	▶ Dim Campaign DataCampaign TypeCamp 🖋 🗙
106.5	3620		2	· · · · · · · · · · · · · · · · · · ·	(All)
142.12	1901		2		▶ MeasuresKPI Remaining redumtion Goal ◆ X (All)
142.48	2366		2	!	
177.74	639		2	!	
28.14	971		2	!	
35.26	4166		2	!	
45.95	1446		2		
462.7	665		2		
70.88	2211		2		
71.24	3130		2		
Total	21115		20	1	
4					
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