## **DIMENSSIONAL MODEL FOR TPT**

BDW: Assignment #2 Instructor: Kashif Saeed

## **Assumptions:**

- A. When a user signs up, he/she can be a buyer, a seller or both and have shown using buyer\_flag and seller\_flag in the buyer and seller dimensions.
- B. Dim\_Seller\_AseemM and Dim\_Buyer\_Alias\_AseemM tables are Alias tables.
- C. Dim\_TrxnDate\_AseemM and Dim\_ReviewDate\_AseemM tables are Alias tables.
- D. Dim\_Buyer\_Alias\_AseemM, Dim\_Seller\_AseemM, Dim\_Product\_AseemM are **Type 2 SCDs** (thus included Effective\_date and End\_date to capture history) **and Conformed dimensions**.
- E. The Fact\_Transaction\_AseemM is a fact table with **grain of** per buyer, per seller, per product, per date.
- F. The Fact Reviews AseemM is a fact table with grain of per buyer, per product of a seller, per date.
- G. Fact\_Reviews\_AseemM table has attribute- "Star\_Ratings" which can have values only from 1 to 5.
- H. To avoid Outer Joins problem, I have included **Null Handling row** in each dimension.
- I. Pivoting: Grade Level, Subject Area and Resource Type
  This is because the website restricts maximum 3 resource type, 4 grade levels and 3 subject area. Thus, I have included these total 10 columns are pivoted in the Product dimension.

## **Bus Architecture:**

	DataMart	Dimensions				
Fact		Dim_Seller_AseemM	Dim_Buyer_Alias_AseemM	Dim_Product_AseemM	Dim_TrxnDate_ AseemM	Dim_ReviewDate_AseemM
	Fact_Transaction_Asee mM	X	x	X	x	
	Fact_Reviews_AseemM	X	Х	Х		Х

















