

Hello Team,

I have received the Takehome_Data_January_2023 file. After examining and analyzing the aforesaid file I have encountered the following noteworthy information:

- There are several items in the Receipts_Item file with Brand Codes and Barcodes which are not present in the Brands table. This poses as an obstacle to process the data, impose integrity constraints, perform computation and obtain accurate information such as identifying the brands which saw the highest spending.
- The database contains date-time data in the form of complex attributes. These complex attributes need to be converted into simple attributes(i.e. individual attributes for date, month, year and time) to increase the effectiveness and efficiency of the database.
- The DESCRIPTION and ORIGINAL_RECEIPT_ITEM_TEXT attributes in the Receipts_items file contain the same information and hence introduce redundancy in the data base. Either one of these attributes can be used to represent the required information.

I would be glad to discuss this point in depth and offer alternate solution.
Feel free to reach out for any further information/clarification.

Best Regards Advika Pattiwar