

## **DESCRIPTION OF DATABASE:**

### (i) For Misbranded Brand Names:

Once the application is started, the user selects the desired category to find misbranded names. The application loads brand names into the memory by reading the table 'brands' from the selected database filtered by selected category. The application sorts the brand names by alphabetical ascending order.

The Application takes the first brand name and searches for the existence of the same brand name again in the table with matching generic name. If the search function finds a brand name, the application analyzes the same for matching generic name. If the generic name doesn't match with the earlier brand name the application marks both the brand names as misbranded in the output grid. (Red background colour). In this case, it is found that, the brand names are same, but the generic contents change with the change in the formulation type.

If there are more than one number of the same brand names in the database, with same generic contents for different formulation types, it will mark it as normal (White background colour). If the search function does not bring any misbranded names, then the application marks the brand name as normal (White background colour).

### (ii) For SALA (Sound Alike Look Alike) Brand Names:

The SALA function splits the selected brand name into alphabets and counts the number of alphabets it contains. The application selects all 'like' records from the table and takes one brand name at a time to analyze.

The SALA function matches each alphabet of both the brand names and counts the matching alphabets. If the count of matching alphabets is more than 80% of average number of alphabets in both the brand names then they are marked as SALA brand names (Blue background color). If it is less than 80%, the brand names are marked as normal (white background color).

Then the application selects the next brand name in the selected table and performs both the above functions. This loop continues until the last record of the brand names in the category selected. Also, some of the SALA drugs are selected on the basis of the phonetic tones and sounds.