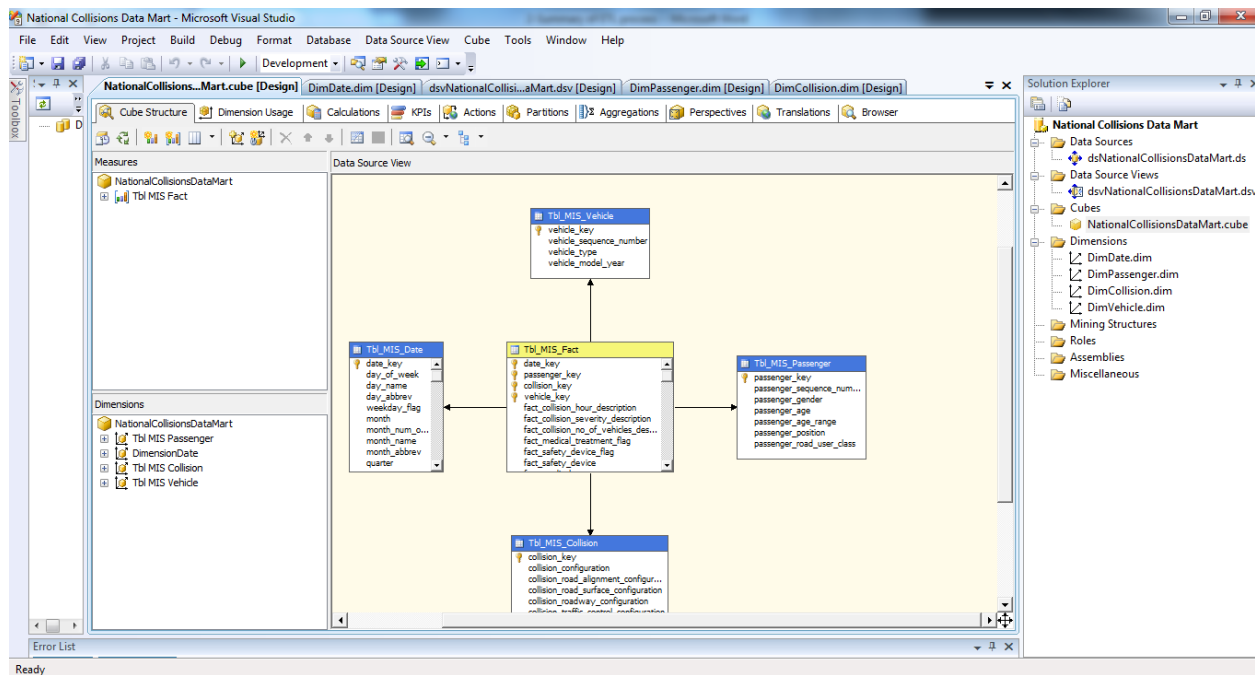# GRAPHICAL USER INTERFACE

The GUI of the project is implemented using the cube generated by Microsoft SQL Server Analytical Services (SSAS) that takes the database in the SQL Server management studio as its input, which is the cleaned and transformed data.
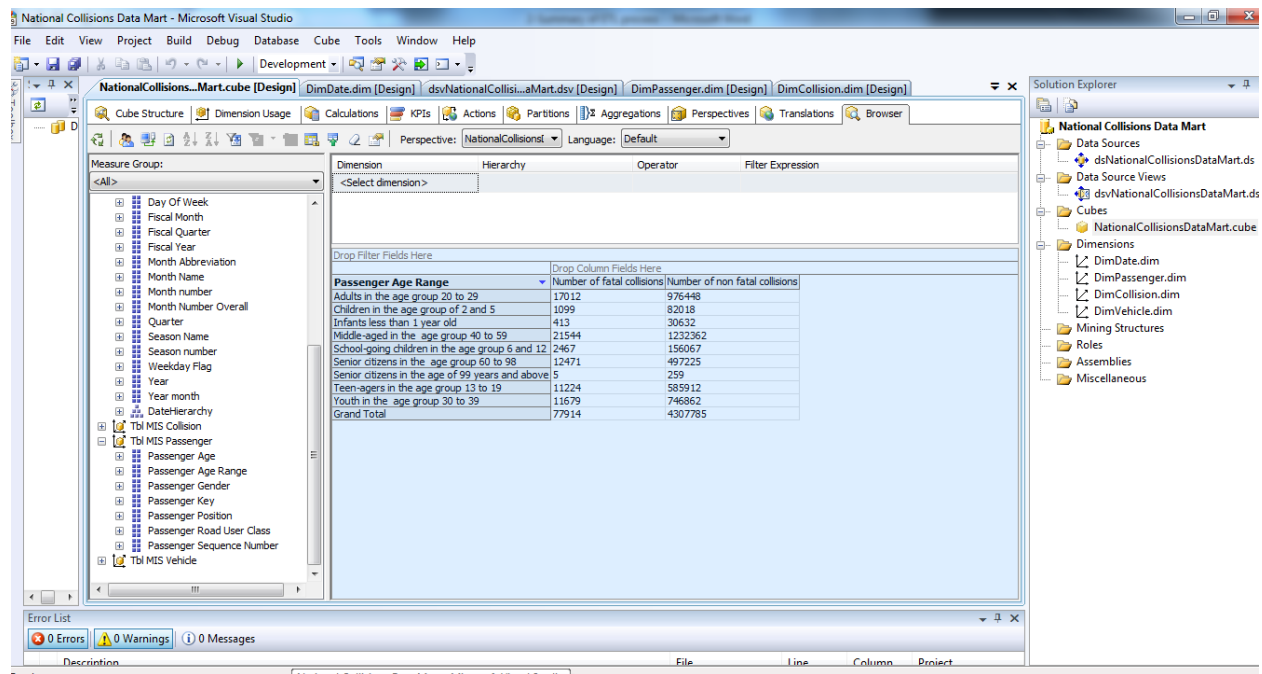
The screen shot below shows the STAR schema implemented using SSAS.



The facts or measures can be edited for the aggregations, the attribute hierarchies can be set up using this excellent Integrated Development Editor (IDE).
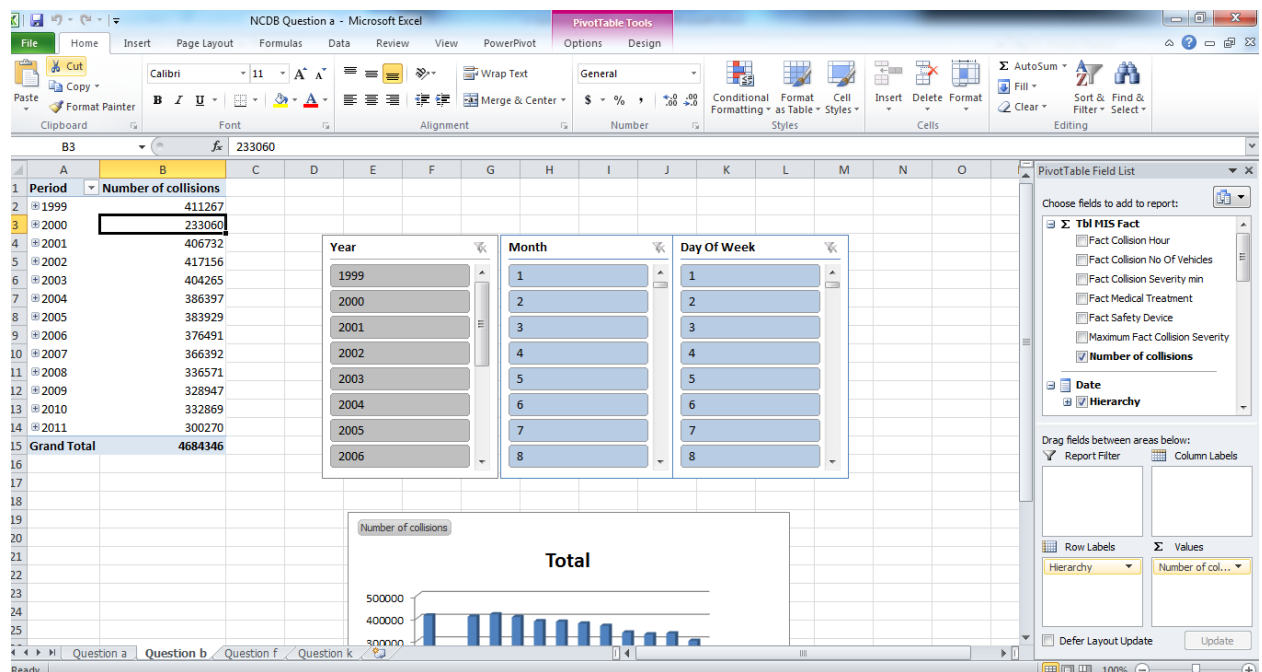
The browser in the cube is used for validating the correctness of the data.  This helps the data warehouse designer to check the quality of data before starting the reports generation for the clients.

The screen shot below shows the comparison of fatal and non-fatal collisions for various age group of passengers involved in the collision. It also allows the engineers to slice and dice various dimensions and see the corresponding measures.

Also graphs, charts, slicers and dicers are visualized using the pivot tables, charts, filters and slicers in Microsoft Excel 2010. An application template is designed and each report sticks to the designed template.

The below screen shot shows a sample report with slicers, dicers, filters and graph generated.



This involves connecting the data source to SASS, filtering data in the pivot table and creation of charts from the data in the pivot table.