Abstract

On-Line Analytical Processing (OLAP) systems have a strong focus on the interactive analysis of data and typically provide extensive capabilities for visualizing the data and generating summary statistics. Most of the data sets can be represented as a table, where each row is an object and each column is an attribute. Data cube represents the multidimensional data with all possible aggregates. The three dimensional data cubes represent the different attributes entirely controlled with the help of objects. In general, a data cube is generalization of statistical terminology as a cross-tabulation. In the present work, authors have designed a framework of OLAP data cube to analyze the Vehicle Insurance Policy (VIP) system to identify the entity, which is highly preferred by the customer. The study describes a methodology with OLAP data cube and pivot table as well as a correlation technique which represents strong relationship among the data attributes. Tables and graphs are designed for the sample database of the Vehicle Insurance Policy System.
- Hurtado C., Mendelzon A. and Vaisman A., Maintaining Data Cubes under Dimension Updates, proceedings in the fifteenth international conference on Data Engineering, Washington DC (pp. 346-355).
- Chaudhuri S and Dayal U., &quot;An Overview of Data Warehousing and OLAP technology&quot;, ACM Sigmod Record vol. 26 (1), March 1997.

**Index Terms**

Computer Science

Databases
Keywords
OLAP  OOMD  Data Cube  Pivot Table  Correlation Coefficient