INTRODUCTION

Data warehousing is gaining in popularity as organizations realize the benefits of being able to perform sophisticated analyses of their data. Recent years have seen the introduction of a number of data-warehousing engines, from both established database vendors as well as new players. The engines themselves are relatively easy to use and come with a good set of end-user tools. However, there is one key stumbling block to the rapid development of data warehouses, namely that of warehouse population. Specifically, problems arise in populating a warehouse with existing data since it has various types of heterogeneity. Given the lack of good tools, this task has generally been performed by various system integrators, e.g. software consulting organizations which have developed in-house tools and processes for the task. The general conclusion is that the task has proven to be labor-intensive, error-prone, and generally frustrating, leading a number of warehousing projects to be abandoned mid-way through development.

However, the picture is not as grim as it appears. The problems that are being encountered in warehouse creation
are very similar to those encountered in data integration, and they have been studied for about two decades. However, not all problems relevant to warehouse creation have been solved, and a number of research issues remain. The principal goal of this paper is to identify the common issues in data integration and a data-warehouse creation. Developers of warehouse creation tools to examine and, where appropriate, incorporate the techniques developed for data integration, and researchers in both the data integration and the data warehousing communities to address the open research issues in this important area.

**ENTERPRISE DATA MANAGEMENT ARCHITECTURE**

It consists of operational data management systems which support existing applications by managing current data. It also consists of a corporate data warehouse and a number of data marts on which various kinds of strategic analyses are performed. In the following, we briefly list the various elements of the architecture.

- Operational Data System
- Warehouse Creation
- Corporate Data Warehouse
- Data Marts
- Warehouse Analysis Tools
ISSUES IN DATA WAREHOUSE CREATION

A number of issues must be addressed in building a data warehouse. Some are associated with the creation of the warehouse and others with its operation. In the following, we discuss the issues affecting warehouse creation.

- Warehouse Architecture Selection
- Database Conversion
- Federated Database
- Enterprise Schema Creation
- Enterprise Data Model
- Schema Integration
- Constraints
- Warehouse Population