

Abstract

The purpose of this project is to design a relation database for a military personnel record system . The personnel records are stored in the database on a SQL Server of a LAN system . Clients (workstations) can access the data in the database by using TRANSACT - SQL (Structured Query Language) . A client/Server architecture used in the project is the Microsoft SQL Server in PC LAN environment . The SQL Server use a single process to handle multiple threaded to service multiple users . It has two key benefits . First, switching between the various user tasks is much more efficient because it is handled within SQL Server internally. Another benefit is the efficient use of memory . The relational database design in this project uses NIAM (Nijssen's Information Analysis Methodology) modeling which deals with fact-oriented modeling . The SQL Server runs on OS/2 as back - end and the clients workstation run on MS - DOS as front - end . A Network Operating System (NOS) that used on the LAN is Microsoft LAN Manager . It provides client support for DOS, Windows, OS/2 and Mac System 7 . Server support extends to NetWare, AppleTalk, UNIX, and OS/2 . So, both the relational database and Client/Server architecture for PC LAN could service the in database management and other data manipulation, such as , query , modification, the data for military personnel records efficiently .