$i$nsure/INDEX ·>

ERP/CRM/SCM environments all have one thing in common, they need to operate efficiently or the business will suffer financially. Tuning these large, complex applications can be a daunting task. The options users have are limited. The only real performance leverage they may have is to create indexes since modifications to the application are typically impossible to make or cost prohibitive.

With automated index identification, **insure/INDEX** provides sophisticated analysis, just like an on-staff database administrator - analysis designed to give mission critical applications the exceptional performance and availability necessary to deliver maximum business value. **insure/INDEX** makes it easy to identify critical access paths for enterprise applications, steps the user through the process of creating indexes, easily tracks changes, and avoids problems associated with application changes and upgrades.

A principal benefit of **insure/INDEX** is the automated identification of indexes without the need for a high level of expertise required with traditional methods. **insure/INDEX** provides an environment to create those indexes and keeps a history of their creation so they can be managed. AS/400 iSeries users, who need to create indexes to help tune applications or queries, must go through a tedious, error prone, and complex process. They manually collect performance information, write queries to analyze that information, and then interpret the results.

key benefits

> **Advanced** - Without **insure/INDEX** users may miss opportunities to create the 'perfect' index. With Centerfield's proprietary algorithms, a process called index melding, indexes are recommended that can provide the greatest benefit - even indexes that aren't intuitive to a performance expert.

> **Automated** - Lets users selectively collect on the workload that is giving them the most trouble and then automatically present index recommendations that would be most beneficial to their environment.

> **Wizard driven** - Both first time and experienced users get the most out of the **insure/INDEX** because of its intuitive graphical wizards. Traditional command interfaces provide little assistance with index needs analysis or index creation.

> **Manageable** - **insure/INDEX** provides historical tracking that allows a database administrator to keep a history of index creation and deletion. This allows users to understand the scope of database changes and properly control a production environment.

> **Flexible** - The index creation wizard allows the database administrator to create recommended indexes, and apply their own expertise to the creation process.

> **Integrated** - The **insure/INDEX** integrates with the AS/400 environment by allowing the user to leverage the AS/400's capabilities. For example, the index build can be scheduled when it's convenient and the source file can be stored on the AS/400 for use by traditional source control systems.
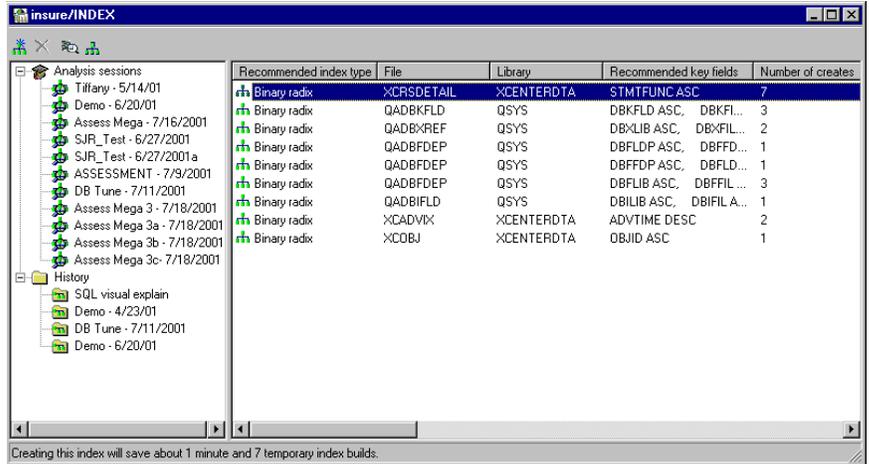
key features

insure/INDEX is the fast path to tuning your applications and database. Using a policy based interface to selectively track database system activity, you can focus on areas that provide the most benefit. Database activity can be collected by user, job, subsystem or a combination of these.

The information generated is placed into a flexible, optimized repository to minimize storage overhead and maximize access performance. The repository incorporates a star-schema data mart architecture used in the insure/INDEX as well as insure/ANALYSIS.
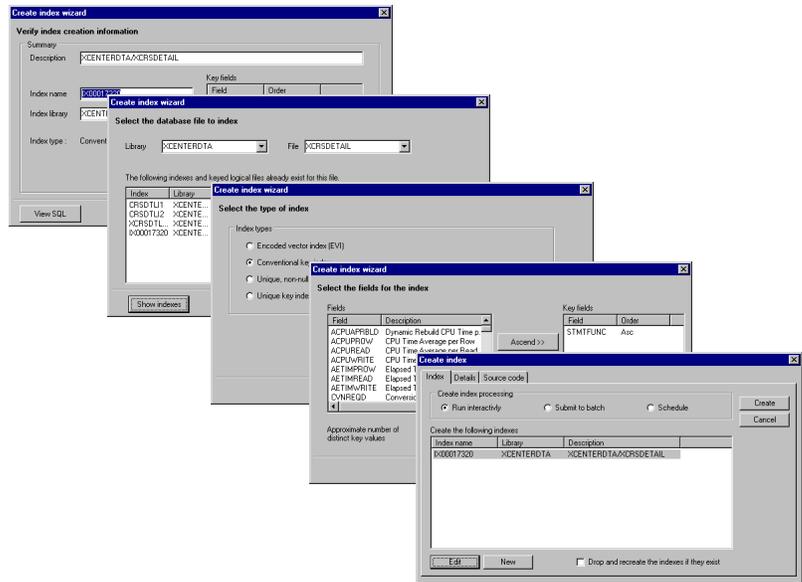
insure/INDEX automatically analyzes collected activity looking for index changes needed on your system. It uses a process known as "index melding" to determine the optimal set of indices needed to improve over all performance.

insure/INDEX management capabilities allow you to:
- Review index information
- Create indexes
  - Easy to use wizard interface
  - Create Encoded Vector for V4R3 or higher
  - Save index creation scripts in AS/400 source files for tracking and flexibility
- Tracks all indexes created in the insure/SQL modules

Automated Index Recommendations

Simple Index Creation

Often it is important to understand the relationship between files, indices and key fields. insure/INDEX includes our insure/EXPLORER feature so index cross-referencing can be done. You have quick access to information like; indexes associated with physical and logical files, key fields contained in other indexes, logical files or SQL views with associated physical files and views, and physical files with associated indexes.

The index melding coupled with the insure/INDEX's automation features make it easy to determine the optimal set of indices for your database. Additionally the features contained in insure/INDEX, provide the fast path to application performance and control.

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