



# TeraTech News

## Tools for programmers

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NEWS.....NEWS.....NEWS.....NEWS.....NEWS.....NEWS.....NEWS.....

### *Happy New Year To Our Most Valued Clients*

This month we cover:

- Helpful tips
- SQL server upsizing
- General Windows Shortcut Keys
- Airline Fare Management System
- Bank Database
- Circle Fitting
- Software for (ANDI) African Nutritional Database Initiative

#### **Upsizing Access to SQL Server**

Now, you can convert Access to the SQL server by doing the following:

- You can either export to an ODBC data source or get the upsizing wizard from <http://www.microsoft.com/officedev/index/upsized.htm>

The following are problem areas:

- Naming conflicts - non A-Z\_09 field or table names
- Field types
- bit vs. logical yes/no - bit fields from 0/-1 0/1

- auto number fields
- memo fields
- function naming changes
- Access function in queries (both in MDB and in CFM) eg Now ()

For performance tuning see:

<http://msdn.microsoft.com/developer/sqlserver/sql7perftune.htm>

If you decide to get more information you may want to try "The Ultimate Resource for Database Professionals" by Wayne Freeze. (<http://www.amazon.com/exec/obidos/ASIN/1566047609/>). It is recommended that if you have to either upsize from Access to SQL server or need to write plain vanilla SQL with future ports in mind....It also gives alternative function names in SQL server when your access function doesn't exist in SQL server. The book documents all the differences between Access and SQL Server (and Oracle, Infomix, DB2 and Sybase).

#### **General Windows Shortcut Keys**

Here are a few shortcut keys that helped us in our daily routines at work maybe then can help you too!

##### **ACTION**

- Close Window
- Switch between sub- windows, or document
- Close sub-window, or document
- Save document or file
- Open START Menu in Win95
- Switch a DOS window to a regular window

##### **SHORT-CUT KEYS**

- ALT+F4
- CTRL-TAB or CTRL-F6
- CTRL-F4 or CTRL-F6
- CTRL-S
- CTRL+ESC
- ALT+ENTER

## **Continued.....**

Force Close a Frozen program without rebooting entire system

Go to next word

Go to next paragraph

Undoing Typing

To save changes to the current record

CTRL+ALT+DELETE, then choose the program (task) to end, then click on END TASK

CTRL+RIGHT ARROW

CTRL+DOWN ARROW

CTRL+Z or ALT+BACKSPACE

SHIFT+ENTER

## **Airline Fare Management System**

A bulk fare reseller for travel agents located in Washington, DC needed a fare look up program. We created a system that allows comparison between fares quickly across different airlines, for selected destinations and agents. The great thing is that once this system is complete their agents will no longer be checking dozens of faxes that cover lists of rates. In addition, they won't have to call to find out prices, when all they would have to do is look up their information on their PCs.

## **Dynamic Web Mortgage Rates**

A major credit union has mortgages and posts interest rates on the web. They are updated by hand everyday. The credit union wanted a ColdFusion program to automatically update the tables and mortgages and calculate estimated annual percentage rates. We developed a program that would get data from each mortgage and calculate the APR. The APR was then displayed using ColdFusion. The function used called mortgage APR is from our FinLib library, this function can work with adjustable rate mortgages. In the future this function will also be added to the FinLib library to improve our product.

## **Circle Fit**

A customer called up asking for a ProMath circle fitting function; one that would take a certain set of points and find the closest fitting circle to it. That function wasn't in ProMath, but we agreed to write it as a consulting project. Using a number of supporting

ProMath functions, we put together a CircleFit function to calculate and return the requested circle. Also, some measures of the closeness of the fit; a function to calculate the total error (distance from all points); and a program that would take their given data, calculate the best circle.

## **African Nutritional Database Initiative**

This is a part of a project that displays live data about different countries in Africa on the web. Data is drawn from the World Bank, World Group Organization and other United Nations agencies to just name a few. ANDI, researches economic information, anthropological data, nutrition, and other research. It also generates graphs to demonstrate data on information being sent from the drawn information from the above prestigious organizations. It is compatible with all standard browsers and ColdFusion plays a vital part in the work for this project to calculate cross tables and control the display of data.

### **CUSTOM PROGRAMMING TOO!**

- ◆ Visual Basic, Quick Basic, C/CC++, ASM
- ◆ Access, FoxPro, Clipper, SQL
- ◆ Numeric Analysis, Statistics, Telephony
- ◆ Web HTML, ColdFusion, ASP, Java

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