

# Session D-SQL7

## VFP Client/Server Entwicklung mit SQL Server 7.0

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### Zusammenfassung

In dieser Session werden zu Beginn die grundlegenden Unterschiede zwischen einer Fileserver und einer Client/Server basierten Anwendungsarchitektur beschrieben. Es wird mit xCase ein Datenmodell erstellt, welches auf SQL Server 7.0 appliziert wird. Hierbei werden im Speziellen auch die Datums und Numerischen Datentypen angesprochen. Es werden alle notwendigen SQL Server 7.0 Grundlagen rund um den Enterprise Manager, den Profiler, den Query Analyzer, sowie über Constraints und Triggers vermittelt, um mit VFP effiziente Client/Server Anwendungen entwickeln zu können. In Analogie zur Rushmore Optimierung bei VFP Anwendungen wird gezeigt, wie beim SQL Server das Prüfen auf optimierte Queries mit dem SQL Server Execution Plan erfolgt. Schliesslich wird anhand des VFP/Client/Server Frameworks Visual Extend aufgezeigt, wie eine Client/Server Lösung grundsätzlich aufgebaut sein kann und wie die Notwendigkeiten einer Client/Server Lösung mit den aus der Fileserver Entwicklung her bekannten Leistungsmerkmalen zu einer attraktiven Gesamtlösung verbunden werden können. Diese Session ergänzt die anderen beiden Client/Server Sessions.

### Voraussetzungen

Jeder, der bereits erste Schritte in der Client/Server Welt unternommen hat oder ganz neu in diese Umgebung eintaucht, findet in dieser Session einen hervorragenden Einstieg und Überblick. Der Teilnehmer kann nach dieser Session sofort mit dem Entwickeln von Client/Server Anwendungen beginnen oder für seine laufenden Projekte entsprechende Informationen beziehen und direkt umsetzen. Es wird lediglich vorausgesetzt, dass ein gewisses Grundverständnis bzgl. der Aufteilung in einen Daten und einen Client Tier eine 2-Tier Client/Server Datenbankanwendung ausmacht.

### Client/Server vs. Fileserver

Wir alle waren in der Zeit der File basierten Datenbanken à la FoxPro sehr verwöhnt. Wir haben uns mit der Frage, welche Daten dem Anwender in einer Applikation präsentiert werden, nicht unbedingt auseinandersetzen müssen. Zumindest konnten wir uns vor dieser Frage etwas drücken und die Vorteile eines Index Sequentiellen Dateisystems, wie FoxPro eines ist, zu unserem Vorteil nutzen. In einer File Server basierten Lösung stehen uns durch das Öffnen einer Tabelle die darin enthaltenen Datensätze uneingeschränkt zur Verfügung. Ein "Locate" oder "Seek" genügt, um auf einen bestimmten Datensatz zu positionieren. Man spricht in diesem Zusammenhang deshalb oft auch von einer "Seek" basierten Umgebung.

Alle File basierten Datenbank Anwendungen haben u.A. jedoch leider immer wieder mit demselben Grundproblem zu kämpfen: Bei steigender Benutzerzahl und grösser werdenden Indexdateien wird die resultierende Netzwerkbelastung immer höher. Stellt man sich vor, dass viele Benutzer gleichzeitig eine Datei

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**Clifford Lane**



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
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

















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