



ICS DreamTeam Member No 2155 CV

Profile:

Expert Data Architect, DBA and T-SQL programmer with 7+ years focused experience of all aspects of SQL Server 2000/2005 and 2008 including performance tuning, data modelling, business intelligence, database administration, reporting and data warehouse development. Hands-on experience of .NET software development. Proven track record of developing and administering very large and complex financial databases, including banking systems.

Achievements:

DB Administration:

- Designed, deployed and administered globally distributed DB running on SQL Server. Chief DBA responsible for complex DB environment utilizing replication, log shipping and data warehouse reporting.

Database Design:

- Modelling complex business process into transactional database schema. Eliminating denormalisation and solid referential integrity by removing polymorphic keys. All structures in resulting database were in third normal form or higher.

Financial\Statistical T-SQL Development:

- Developed complex finance reports including aged debt, deferred income and in depth sales analysis. SQL structures such as dynamic cross tabs, user defined functions, table variables and indexed temp tables were required in these reports.

Data Warehouse Design:

- Designed and built a data warehouse which allowed full data auditing and complex business analysis. An Operation data Store (ODS) was populated using XCALL transactional replication from the OLTP database replacing deletes with insert\update pairs. This data was then fed into the dimensional schemas upon which Analysis Services cubes were built. Finally Reporting Services provided users with interactive customizable presentations of the data.

Enterprise Scale Data Migration Project:

- Writing complex migration scripts in T-SQL including data cleansing and validation. The entire project was planned and carried through independently and required mapping data models from several distinct systems. The final stages of the migration were carried out on location in New York.

DB Version Control:

- Designed and implemented innovative fully integrated version control structures using XML and DDL Triggers newly available in SQL 2005. This prevented any database objects being created, altered or deleted without the change, both before and after, being logged and rolled back.

Performance Tuning:

- Improved performance of mission critical DB application running on SQL Server 2005. Resolved several problems including inefficient SQL code, stored procedure recompiles and poor indexing. Rewrote search stored procedures which returned data to web application and introduced partitioning for historic data. New stored procedures included enhanced data paging techniques resulting in 50-70% increase in performance.

Technical Skills Summary:

- SQL Server 7/2000/2005/2008
- T-SQL
- Normalisation
- Indexing
- Stored Procedures
- Triggers
- User defined Functions.
- Advanced Data modeling
- Database\\Data Warehouse design
- Analysis services Cubes MDX OLAP DW
- SQL Server Integration Services (SSIS)
- SQL Server Reporting Services (SSRS)
- Service Broker
- Data Migration
- Windows Server 2000/2003
- SAN
- VM Ware
- Performance Tuning
- Installation/Upgrades
- Financial DB Development/Administration.
- Locking issues resolution
- Profiling Auditing
- Security
- Backup and Disaster Recovery
- Database Mirroring
- Replication
- Log shipping
- DTS
- ETL
- MS Access
- Crystal Reports 8.5/9/10
- Visual Studio 2005
- Visual Basic/VBA
- C#.NET
- ASP/ASP.NET
- IIS
- CSS
- Visio
- SourceSafe/ClearCase/Subversion
- VM Ware
- SCRUM/Agile/RAD

Work Experience:

From – To: September 2008

Role Title: Database Architect, .NET \SQL Developer and DBA

Description: Single handedly designed, developed and implemented a complex generic ecommerce solution using C#, ASP.NET and SQL 2008. Performed migration from SQL 2005 to SQL 2008. Required extensive project management, requirements analysis and complete development life cycle skills. The project also demanded excellent communication skills and close contact with pilot clients.

MS SQL Server 2008:

SQL Developer:

- Implemented many new 2008 features including table valued parameters, merge statements and table lock escalation control. All database access was via stored procedures and the database created full DDL and DML audit trail. This version and data change control system was specifically developed for the project using DDL triggers and XML. Complex data migration procedures were also written to allow take-on of client data.

Reporting Developer:

- Developed full suite of financial and operational reports using stored procedures and outputting to Excel. The range of parameters effectively allows clients to customize their own reports and grouping levels.

Database Architect:

- Design fully normalized database with dynamic support for multiple currencies and languages. Database was in at least 3rd NF and often 4th. The design of the database was based on an entity diagram that he produced during the application design phase. Database kept full data change history and point-in-time snap shot capability.

Visual Studio 2008:

.Net Developer:

- Developed ecommerce solution with admin tool using C# and ASP.NET. Store has comprehensive functionality including integrated credit card payments, multiple product options, customer based discounts, gift certificates and time based discounts. Required good practical understanding of C# and OO programming.

Web Developer:

- Designed and built presentation layer of site using CSS, HTML and JavaScript.

Customer: Dialectic IT (My LTD Company), Brighton

From – To: February 2008 - September 2008

Role Title: DBA\Data Architect

Description: Provided DBA and design expertise on distributed multiple application financial database. Working directly with senior management and business analysts to resolve data integrity problems and provide real time business trend analysis. Designed and built messaging system across multiple DBs using SS Service Broker. Gave T-SQL assistance to developers to ensure coding standards and performance targets. SCRUM methodology was extensively used.

MS SQL Server 2005:

DBA:

- Designed and maintained robust test and development environments using transactional replication and virtual servers. Implemented Service Broker to guarantee data quality. Designed and documented disaster recovery plans. Releasing new DB objects into production environment.

SQL Developer:

- Rewrote procedural SQL code produced by application developers into set based modular T-SQL code. This improved performance of the application dramatically and enabled robust transaction isolation levels which prevented further data corruption. Wrote suite of real time finance reports which provided previously unavailable KPI analysis and revealed problems in database design. Developed reporting procedure for analysing highly complex statistical and financial data.

Data Architect:

- Remodelled large parts of Object Orientated database into 3nf relational model which increased transactional throughput and made crucial parts of the database incorruptible. Coded constraints and complex set based triggers to enforce business rules as well increasing and decreasing levels of normalisation where appropriate. Implemented time-lining structures for key financial data.

Customer: The Pensions Regulator, Brighton

From – To: September 2007 - February 2008

Role Title: Senior DBA\Data Architect

Description: Lead DBA responsible for finance and HR databases running on SQL 2005/2000. Providing disaster recovery solution and ETL procedures for integrating disparate databases into a single data mart for reporting purposes. Liaising with finance directors to provide automated report generation. Resolving deadlocks and removing security risks through improved permissions structures and removal of dynamic SQL.

MS SQL Server 2000/2005:

DBA:

- Specified, capacity planned, and installed 'Wintel' server with SQL 2005 setting up log shipping to fail over environment running from a SAN. Devised and implemented new indexing strategy based on cardinality review resulting in 60% increased performance. Several installations were maintained and developed on VM Ware.

SQL Developer\ Data Analyst:

- Wrote complex ETL procedure in T-SQL to integrate HR, finance and payroll databases. Scripts required advanced data modelling techniques and highly performant set based SQL logic.

Data Warehouse Developer:

- Wrote procedures for populating unified data marts to feed highly summarized aggregate reports for senior directors.

Customer: Amnesty International, London

From – To: December 2006 - July 2007
Role Title: DBA/Data Architect
Description: Worked in 'Registrars' department on very large databases (several tera bytes) running on SQL 2000 and SQL 2005. The databases are some of the largest and most sophisticated in the industry. Primary responsibilities included performance tuning large complex queries and updating indexing strategies. Also administered replication and refactored processes for extracting and transforming data for reporting purposes.
Contract renewed twice and he declined the third offer.

MS SQL Server 2000/2005:

DBA:

- Scripts to automate backup and restore processes, version control. Query tuning, replication, disaster recovery, security, indexing, partitioning, ETL, import\export scripting, XML. Full text searching. BLOB and varbinary (max) data types. Planning and implementing successful migration from SQL 2000 to SQL 2005.

Data Architect:

- Writing complex T-SQL UDFs, stored procedures and triggers. performance tuning data load routines and redesigning reporting infrastructure.

Design Authority:

- Data modelling. Interpreting business requirements into technical specifications and data base schemas. Providing documentation of systems and processes.

Reports Developer:

- Written complex SQL stored procedures to extract and analyse data.

Customer: Lloyds TSB, Durrington

From – To: April 2006 - December 2006

Role Title: DBA\Data Warehouse Architect

Description: Worked on hosted cutting edge 24/7 high transactional application for the financial services industry.

Developed and administered multiple instances of OLTP database (SQL 2005) re-factoring large parts for performance and scalability. DB powered dynamic data driven, international ,multi language and multi currency ASP.NET web application designed, built and deployed enterprise class data warehouse business intelligence; OLAP solution using Analysis Services 2005.

MS SQL Server 2000/2005:

DBA:

- Scripts to automate complex deployment and migration routines. Remote Installation, Version Control. Query Tuning. Replication, database mirroring, disaster recovery, security, indexing, partitioning, ETL, import\export scripting. CLR integration, XML. Full text searching. BLOB and varbinary (max) data types. Planning and implementing successful migration from SQL 2000 to SQL 2005.

Senior Developer:

- Writing complex T-SQL UDFs, stored procedures and triggers. Tuning other developer's code. Instantiating and maintaining best practises. ADO.NET. Xpath, OpenXML.

Design Authority:

- Data modelling. Interpreting business requirements into technical specifications and data base schemas.

B.I Analyst:

- Developed data mining models to empower analysts with insight into the data.

MS Analysis Services 2000/2005:

Data Warehouse Architect:

- Designed and built real time analytics on complex data cubes using Ralph Kimball data mart methodology. Pro active caching MDX, calculated members.

MS Reporting Services 2005:

Reports Designer:

- Constructed interactive reports in Visual Studio using dynamic data sources and MDX cube queries. Report builder, data models.

Visual Studio .NET

C# Developer:

- Developed programs using C# and the .NET Library. These programs included import/export routines and programs for managing meta data. Where appropriate functionality in SQL Server 2005 was used to automate disaster recovery and back procedures.

Development Structures:

Developer:

- Created and documented database version control procedures including deployment to multiple environments. Supervising developers testing, UAT and sign off producing process diagrams in MS Project.

Managerial:

Supervisor\Mentor

- Ensuring all database code produced by team of developers was accurate and in accordance with best practices.

Customer: AnyTM, Brighton

From – To: September 2003 - April 2006

Role Title: DBA\ Developer

Description: DBA responsible for all aspects of complex 24/7 databases running on SQL Server installations in both the US and UK. DB environment utilised replication, log shipping, deployment automation and dimensional data mart reporting structures.

MS SQL Server 7/2000/2005:

DBA:

- Security, backup and recovery, consistency checks, clustering, replication, log shipping, scheduled tasks, DTS, migration, data cleansing and repair, imports/exports, Performance tuning, and troubleshooting, third -line support. BCP, ADO, ODBC, DAO, XML and HTML output. SQL Server 2005 developments. Analysis Services, OLAP.

Expert Developer:

- T-SQL, stored procedures, user defined functions, table data type, system objects, xp cmdshell, triggers, query optimization.

Design Authority:

- Logical and physical database design, E-R and data modelling, code reviews. Indexing strategy.

Reports Writer:

- Developed complex statistical and financial reports liaising directly with the finance department. Also developed the reports web based front end in ASP.

Crystal Reports 8.5/9/XI

Developer:

- Report design, automation. Sub reports, financial reporting, document fulfillment, Crystal Object library implementation.

Visual Basic

Developer:

- VB6, VBscripts, VBA

Business Analysis

Developer:

- Liaised directly with end users, senior managers and other members of the development team. DBA responsible for large DB migration project which required mapping of business processes and requirements.

Managerial

Supervisor\Mentor:

- Provided support and advice to junior developer ensuring high standards were maintained and skills and knowledge shared.

Customer: Study Group International, Hove

From – To: November 2002 - June 2003

Role Title: Developer

Description: Designed and built application for short term accommodation company. Application handled all aspects of business including invoicing and commission runs. System initially had SQL Server back end with Access front end and was then rewritten to use MySQL and then access back ends with MySQL and Access SQL syntax. Required abilities at all stages of the application 'life cycle'.

MS SQL Server 7/2000

Developer:

- T-SQL, stored procedures, user defined functions, table data type, query Optimisation

Customer: Host Family Solutions, Brighton

Education:

September 2002 – Philosophy of Cognitive Science MA

September 2003 Sussex University, Brighton

September 1998 - Philosophy BA 2.1

June 2001 Middlesex University, London



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