

Fred Yang

➤ Profile

- 16 years work experience in IT, including 14 years as a DBA for development and production, full life-cycle database implementation and management with SQL Server & Oracle, heavy data processing in large distributed databases.
- Certifications for SQL Server DBA, Oracle DBA and Erwin.
- Financial and telecommunications background for Database and Data Warehouse
- Expertise in Backup/Recovery, T-SQL, High Availability, Performance Tune, Data Modeling, VB Script

➤ Skill

| Databases | MS SQL Server 2008/2005/2000/7/6.5 | Oracle 11g/10g/9i/8i |
|-----------|---|---|
| Languages | Transact-SQL, MDX, Win Shell Scripts, VB Scripts | PL/SQL, Shell Script, Perl |
| Tools | DTS, SSIS, SSAS,SSRS, Cluster Administrator, Erwin, SQLCMD | SQL*Plus, DBArtisan, Toad, Log Miner, Grid Control |
| Monitor | DBCC, Profiler/Tuning Advisor, Spotlight Query Analyzer, MOM, DMV, Counter Logs | STATSPACK,TKPRO, Explain Plan AWR/ ADDM |
| Backup | T-SQL, LiteSpeed, Veritas, TSM, BCP | RMAN, NetBackup, imp/impdp |
| HA/DR | Server Cluster, Log-shipping, Database Mirroring, Transactional Replications | RAC, Standby, Stream Replication MView, VMware, Veritas Cluster |
| OS | Win. Server 2003, Win. Advanced Server | Sun Solaris, HP-UX, Win. Linux |

➤ Experience

BCBS

09/2008 – Present Omaha, NE

DBA (Contractor) Distributed Data Management

Manage SQL Server/Oracle, Automate SQL Server Migration & Management by VB & SQLCMD Scripting

- Migrate databases from SQL Server 2005 to clustered SQL Server 2008 instance
 - Calculate total size of data files in different recovery mode, perform trend analysis
 - Recommend driver space requirements for data files, log files and backup files
 - Perform unattended install of binaries through configuration file
 - Scripts jobs, logins and replication, modify and apply in the new instance
 - Configure instance parameters, database mails as well as model database setting
 - Create different workload groups with different resource limits
 - Automate user databases migration through SQLCMD Scripting
 - Generate restore scripts for all user databases automatically through TSQL
 - SQLCMD use variables from configure file to perform backup, copy and restore
- Manage, develop and implement data warehouse
 - Develop SSIS package to load data for ETL processes
 - Build cube with proper measures & dimension, backup SSAS database after deployment
 - Create partitions for fact table and indexes
 - Design sliding window process to move partitions to historic file-groups automatically
- Implement transactional replication from Oracle to SQL Server
- Automate database management for hundred of instances through VBS (VB Scripts)
 - Use VBS scan all instances for the information of backup, jobs and space usage, etc
 - Use VBS find and install missing maintenance jobs for all instances automatically
 - Standardize all maintenance jobs generically as template through TSQL
 - Rewrite SQL code to analyze fragmentation and de-fragment automatically
- Monitor, identify and resolve performance issues for queries and instances
 - Use DMV to locate IO/CPU costly queries and tune in different methodologies
 - Rewrite more than ten queries to reduce running time to 1/4 of the original in average
 - Find proper driving tables for complicated query
 - Tune partitioned views for fact table from full scan to range scan

Kaiser Permanente

05/2007 – 09/2008 Pasadena, CA

Lead DBA (Contractor) Database Management

Manage, update and consolidate hundreds of databases for SQL Server and Oracle

- Convert two instances from standalone to Active-Active-Passive clustered instances
 - Install SQL Server binaries, configure each nodes with proper failover sequence
 - Configure SQL resource group as well as Looks Alive\Is Alive parameters
 - Script logins, jobs, linked server and replication, modified and applied in the new server
 - Backup database from standalone and restore in server cluster
 - Perform striped backup for big data files and restored in the new server
 - Automate the database migration process using dynamic SQL
 - Write T-SQL to generate restore scripts and run automatically
 - Migrate 20 publications, configure agent & snapshot parameters for better performance
 - Upgrade DTS packages to SSIS using migrate DTS 2000 package utility
- Build DR (*Disaster Recovery*) Server (SQL Sever 2005)
 - Configure asynchronous database mirroring from SQL Server 2005
 - Build out-bound database mirroring between two servers which do not trust each other
 - Create certificate and copy to each side to go through the authentication
 - Setup physical standby log-shipping (*norecovery option*) from SQL Server 2000
- Migrate and reconfigure report server
 - Migrate report databases, encryption/ master/asymmetric keys, reconfigure report server
 - Build logical standby log-shipping(*standby option*) from production to report server
- Write DDL triggers to record schema and database changes
- Migrate Analysis Services databases (Cubes) using Analysis Services Migration Wizard
- Implement two-way transactional replication for bi-directional real-time data synchronization
- Recognize and resolve database and queries performance issues
 - Setup database performance condition alerts to monitor counter like log size, hit ratio.
 - Find top resource consuming queries and unused / missing indexes through DMV
 - Tune profile of each replication agent and snapshot sync time for better performance
 - Use tracer tokens to catch delivery latency for distributor and subscriber

Environment: MS SQL Server 2005/2000, Win Server 2003, T-SQL, SSIS, AS, Cluster Administrator

- Build Oracle 11g Release 1 RAC with ASM disk On Linux

Environment: Oracle 11g, RAC, ASM, VMware1.0.5, Oracle Linux Enterprise 5, MS SQL Server 2005

JP Morgan Chase

08/2006 – 05/2007

Columbus, OH

Lead DBA (Contractor) Deposit Automations

Design and implement databases for series of Deposit Automation and migrate data warehouse

- Construct Active-Passive-Active virtual instances and standby disaster recovery server.
 - Install two virtual SQL Server 2005 instances as well as Service Pack.
 - Build standby database using asynchronous DB Mirroring for Non-Bulk-Logged operation
 - Build standby database using Log-Shipping for Bulk-Logged operation
 - Configure backup strategy, Setup Veritas backup client to perform backup and recovery
 - Design one way transactional replication for real-time data synchronization
 - Tune the Log Reader and Distribution Agent for update-intensive operation
 - Trace delivery latency for distributor and subscriber using Tracer-Token
 - Create publications & articles to propagate changes from primary to secondary
 - Use dynamic SQL queries to startup the replication jobs
- Setup Active-Passive SQL Server 2000/2005 virtual instances and disaster recovery servers
 - Perform capacity plan and size database, Allocate SAN space for data, log and temp DB.
 - Write procedure to enable SQL backup job when Control-M agent fails to work
- Migrate data warehouse from SQL Server 2K to SQL Server 2005 production server
 - Design and implement partitioned fact tables.
 - Move DTS to SSIS and AS (Analysis Services) through AS migration wizard
- Write documents for database maintenance, installation as well as backup/recovery.
- Find and tune the performance for queries and system using DMV, profile and counter log
 - Monitor and optimize performance for queries, replication as well as DTS/SSIS etc.
 - Tune SQL Server configuration setting for better performance
 - Use profile to catch costly/slow running queries, resolve missing/incorrectly used indexes
 - Identify fragmentation issues and de-fragment
 - Automatic de-fragmentation process with sorting intermediate results in temp database

Environment: SQL Server 2005/2000, Oracle, Win Server 2003, T-SQL, SSIS, AS, Cluster Administrator

DBA (Contractor) Production Support

Administrate, monitor and handle issues for more than 100 SQL Server and Oracle instances.

- Install SQL Server 2005/2000 instances
 - Install and test Perl monitor scripts
 - Build standby log-shipping database.
 - Install Litespeed to perform database backup from primary and restore in secondary
 - Setup customized stored procedure to transfer log files and restored by Litespeed
- Migrate SQL databases to the new locations
 - Scripts logins, jobs and apply in the new locations
 - Scripts transactional replication, make modification and rebuild in the new box
- Identify bottleneck issues, monitor and tune the performance for the databases and queries.
 - Collect SQL Server counters like hit ratio and system counters like CPU and IO
 - Perform memory, disk, processor and networks bottleneck analysis
 - Build trace tables and use procedure to pickup the resources-intensive queries
 - Monitor and resolve SQL Server overall performance
 - Monitor Error logs, Disk Space/File Space, Jobs per DSN through Perl
 - Proactive to fix space issues when disk space/file space exceeds threshold

Environment: *SQL Server 2005/2000, Windows Server 2003, Litespeed, Perl*

- Clone production database to test environments through Perl scripts and manually
- Refresh databases and schemas from production using different methodologies
- Monitor and resolve space issues for table space and mount point

Environment: *Oracle 8i/9i, HP-OpenView, OminBack, RAC, RMAN, HP-UX, AIX*

JP Morgan Chase**Salt Lake City, UT 09/2004 to 02/2005****DBA (Contractor) Data Warehouse Development**

Involved in designing, loading data, designing cube and constructing data dictionary

- Data Warehouse design
 - Create partitioned views for the fact tables
 - Reverse the Data Warehouse schema to perform logical design by ERWin
- ETL processing
 - Use DTS ActiveX Scripts to parse flat files and load into staging database
 - Use DTS to build snapshots from DB2
 - Perform parallel and incremental loading, tune the package performance
 - Load data from staging database to transform database using stored procedures
 - Transaction controlled by SQL, rollback the transaction to save point if error happens
- Build data dictionary using DTS
 - Parse XML to get attributes for source table, Load columns from DW for destination table
 - Setup associative table for the mapping columns between source and destination table
- Design cube through Analysis Services
 - Select fact table and measures, Build dimensions from start schema & parent-child table
 - Process and incremental update the cube, browser the data by MDX sample application

Environment: *SQL Server 2K, DTS, ERWin, Transact-SQL, MDX sample application, Analysis Services*

Qwest Information Technologies**Dublin, OH 05/2001 - 07/2004****DBA LIMS (Logic Inventory Management System)**

In charge of handling database objects and data for development and production of LIMS

- Translate business requirements to technical specifications; conduct database logical & physical modeling with normalized tables using Erwin
- Build and configure multiple database instances
 - Select sizes for shared-pool, block-buffer, log-buffer and block-size.
 - Layout table-space for DATA, INDEXES, RBS, TEMP, separate low-usage segments.
 - Upgrade Oracle 8i database to Oracle 9i through export and import schema transfer
- Migrate data from different sources to production
 - Use PL/SQL to filter and load data from other production databases
 - Write Perl scripts to load data from access

- Manage database
 - Create schema and users, grant privileges and access to the users
 - Setup database links and database replication with snapshots.
- Develop database
 - Create notification report, which access over 30 tables across 4 databases.
 - Tune a single 4-page size query using different methodologies.
 - Use dynamic SQL to generate schema and retrieve data.
 - Create and test database objects like procedures, triggers and migrate into production.

Environment: Oracle 9i/8i, Solaris/WINNT, RMAN, SQL*Plus, Shell Scripts, TKPROF, STATSPACK, Perl, ERwin

CompuPacific International

Ann Arbor, MI 07/2000 to 05/2001

DBA Permit Management System

Upgraded the existing system that manages permit activities

- Install, configure and size SQL Server as well as Capacity Planning
- Migrate database schema and data from Access to SQL Server by DTS
- Monitor performance statistics from server utilities, tune database/query
- Manage database/disk space, backup/recovery and security
- Create stored-procedures, functions as well as triggers for data processing

Environment: MS SQL Server 7.0, Transact SQL, DTS, Access

Jinsha Computer Company

Beijing, China 04/1993 to 01/2000

DBA/Developer GBAS (Gate and Bay Allocation System)

Worked on two phases of the GBAS at the Beijing Capital International Airport (BCIA) with a variety of roles. This large database system allocates all flight scheduling for the airport, including long-term, next-day schedules and real-time changes and updates. GBAS receives flight information from a DTM (Database Transaction Manager), allocates gate and bay assignments automatically or manually, returns allocation information to the DTM, and displays flight information and real-time management reports for controlling the airport.

- Analyze and design business process flow diagrams, Convert business requirements into technical specifications, Perform database schema design
- Install and configure SQL Server for GBAS and Oracle with OFA compliance for DTM.
- Create the logins, users as well as manage privileges/roles to ensure database security
- Design and develop the unit and integration test plan for different modules
- Administrate GBAS database daily, including backup/recovery, performance monitoring, database space management and database changes implementation.
- Load flight information between SQL Server and Oracle.
- Code GBAS database management GUI

Environment: SQL Server 6.5, Oracle 8, ERwin, Windows/AIX, Visual Basic

➤ **Education**

- M.S. - Aerospace Manufacturing - Beijing University of Aeronautics and Astronautics 03/1993
- B.S. - Aircraft Design - Beijing University of Aeronautics and Astronautics 07/1988