

Résumé

t 0438 872 008
 f 08 9286 2686
 greg.salotti@systemic.com.au

Rob Van der Sanden

Rob Van der Sanden is a Senior Application Developer and Database Administrator with over 18 years of experience. He has worked across a broad range of platforms and technologies. He has held Project Leader, Application Developer, Data Analyst and Database Administration roles.

He has many years of Oracle Database Administration and development experience, as well as experience with the Microsoft Windows development environments. He also has some recent experience with Java and Java 2 Enterprise Edition (J2EE), and XML..

Technical Skills Summary

Languages

Java	2 years
C	2 years
PL/SQL	8 years
Visual Basic	1 year
COBOL	8 years
IBM Assembler	5 years
XML, XML Schema, XSLT	12 months

Databases

Oracle (6, 7, 8, and 9)	8 years
SQL Server	1 year
IBM Mainframe IMS and DB2	5 years

Database Tools

Oracle Developer and predecessors (Forms 3, and 4.5)	1 year
Oracle Designer	3 years
Oracle Discoverer	4 months
Cognos Impromptu	4 months
Brio	6 months
BMC Patrol	6 months
Platinum Autosys (Batch Scheduler)	3 months
IBM MQ Series	6 months

Application Servers

BEA WebLogic	18 months
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Operating Systems

Microsoft Windows (3.1, 95, 98, NT, 2000)	8 years
Unix (AIX, DG/UX, Digital Unix, HP/UX, Solaris)	8 years
IBM Mainframe (MVS, VM, VSE)	12 years
OS/2	2 years

Personal

Name: Rob Van der Sanden
Date of Birth: 20th March 1960
Nationality: Australian
Education/Qualifications: Bachelor of Business (Information Processing), Curtin University
1983 (with Distinction)

Employment (Current Role)

01/00 – 22/11/02: ***Department of Transport***
442 Murray Street, Perth

Position: *Data Analyst, Oracle DBA, Team Leader, Developer*

I consulted on the TRELIS project, which is a redevelopment of the Motor Driver's Licence, and Motor Vehicle Registration system. The new system is being developed using Java, and Enterprise Java Beans, running against an Oracle database.

I was involved from the beginning of the project with requirements analysis and developing the logical and physical database design. This also included providing Oracle Database Administration support to the application developers.

I was also responsible for the design, and development of the data migration of the existing data on the IBM Mainframe to Oracle running under Solaris. This also included a facility to collect any updates that are performed on the mainframe, and to apply these changes to the Oracle database. This was required to keep the Oracle database up to date to allow it to be used for enquiry access.

To allow for a Phased implementation of the TRELIS system across the state, I was also responsible for the design and development of an interface from the existing systems that run on an AS/400 to run against the TRELIS database. This involved communicating between the AS/400 and TRELIS using a Java Servlet, and the development of Enterprise Java Beans to provide equivalent function to the existing mainframe systems. This allowed the new TRELIS system to be implemented at one site whilst the other sites are still using the AS/400 application. The sites will be able to migrated across to TRELIS one at a time to ease the training and support requirements.

I was also responsible for the design and development of interfaces between the TRELIS system, and systems at the Police department. These interfaces exchange XML messages between the Police and Transport computer systems using MQ Series. The XML messages are converted using XSLT to a format that can be processed on the IBM mainframe.

Employment History

09/99 – 01/00: ***Health Department***
Royal Street, East Perth

Position: *Oracle DBA*

I provided Oracle Database administration support for the Morbidity database. This is a large (130GB) database that collects data from all Health centres across the state.

06/99 – 09/99: ***Department of Transport***
442 Murray Street, Perth

Position: *Developer*

I was involved in the design and development of data replication between the IMS database on the IBM mainframe and an Oracle database running under Solaris. MQ Series was used to provide the

data transport between the two systems. This system was to demonstrate that it was technically feasible to perform bi-directional replication between the Mainframe and Oracle

08/98 – 01/00: Water and Rivers Commission
Plain Street, East Perth

Position: Oracle DBA

I provided Oracle Database administration support for the Water and Rivers Commission for two days each week. The in-house applications run against Oracle 7 and Oracle 8 databases running under Windows NT. In addition to this, Oracle Financials 10.7 is running against an Oracle 7 database running on Digital Unix.

I was responsible for the set up and ongoing support for these databases, including tasks such as database backup, recovery, performance tuning, implementation of changes, setting up of standards, and support for the application developers. I also provided support for the Oracle Financials installation.

08/98 – 06/99: Fisheries WA
St Georges Terrace, Perth

Position: Windows NT Administration, SQL Server DBA

I reviewed the Windows NT and SQL Server set up at Fisheries WA, and provided recommendations to improve the performance and availability for these servers. The recommendations covered areas such as Windows NT parameters, SQL Server parameters, disk configuration (RAID), and file placement. These changes have been implemented, and I have also provided ongoing support for these servers.

10/98 – 06/99: Health Department
Royal Street, East Perth

Position: SQL Server DBA, Visual Basic Developer

I was involved in the design, and development of the Corporate Financial Information Database (CFID). This project involved building a data warehouse containing Financial details from all the Public Health Care providers across the state. Data is collected from Oracle Financials, HCARE, and via manual collection, and imported into a SQL Server database, running on Windows NT. This data is then used to provide Whole of Health consolidated Financial reports.

Cognos Impromptu is used to produce a number of standard reports, and for adhoc reporting. The data collection process and an Administration Utility are written in Visual Basic. The job scheduling of the data collection process is controlled using Platinum AutoSys.

09/98 – 10/98: Ministry of Justice
St Georges Terrace, Perth

Position: Performance Testing

I used the Mercury WinRunner and LoadRunner tools to perform a Load Test of the TOMS Application. TOMS is a Visual Basic application that runs against an Oracle database running on a DG/UX Unix server.

LoadRunner was used to simulate a large number of users of the TOMS Application to simulate a Production load against the network and database server. LoadRunner records the SQL statements issued by the Application. These are then replayed in a number of sessions to simulate a large number of users.

WinRunner records the key strokes and mouse movements for the business transaction. It then replays these key strokes and mouse movements to run the application. These transactions were played back across a simulated WAN to determine the end user response times when the network, and database server were running a Production load.

The end user response times, network load and response, and server load and response were recorded during the runs to determine whether the network and server capacity were sufficient. Recommendations for Unix and Oracle parameters tuning were also provided.

04/98 – 08/98: Data General
442 Murray Street, Perth

Position: Performance Testing

I used the Rational Prevue/CS product to conduct a Performance Engineering test of an ORACLE Financials implementation for the Health Department of WA. Prevue/CS is used to simulate a number of users of the ORACLE database, to confirm that the server can support the expected load, and to allow performance tuning of the database prior to go-live. The Performance Testing was run many times to assess the impact of changing Unix and Oracle tuning parameters. Recommendations on tuning parameters for Unix and Oracle were provided based on the outcome of these tests.

04/98 – 07/98: Kaiser Engineering
442 Murray Street, Perth

Position: Oracle DBA

I provided ORACLE database administration support for the ORACLE Financials Application. This includes administration of the ORACLE database, and support and maintenance for ORACLE Financials.

12/96 – 04/98: Computer Science Corporation
St Georges Terrace, Perth

Position: Oracle DBA/Developer

I was responsible for the setting up and testing of replication for the Central Patient Index tables for the TOPAS system using Oracle Symmetric Replication. Updateable Snapshots were used to replicate the data between the Hospital systems, and allows the patients details to be updated at any Hospital, and for the details to be replicated to all other Hospitals. Conflict resolution routines were implemented to resolve conflicts where the same row was updated at different sites.

I also provided ORACLE database administration support during the development, deployment, and support phases of the TOPAS project. TOPAS was developed using Oracle Forms 3.0, Reports, and Oracle Menu, against an ORACLE version 7 database, running on DG/UX (Unix). The TOPAS system has been implemented across the Western Australian Government hospitals.

The support provided included providing assistance to the application programmers, resolving database problems, and setting up the application on the Test and Production ORACLE instances, and support during the implementation at each Hospital.

I have also provided database administration support for the ORACARE system, which is implemented at St John of God Hospital. This has also included the set up and testing of Developer/2000 Server (Web forms), to allow a Forms 4.5 application to be run using a Web browser.

06/97 – 09/96: Office of the Auditor General
Harvest Terrace, West Perth

Position: Oracle DBA

I provided ORACLE database administration support for the ITRS Application. This included housekeeping, and monitoring on a periodic basis.

12/95 – 10/96: BHP Iron Ore
St Georges Terrace, Perth

Position: Data Analyst, Oracle DBA

I was the Data Analyst and Oracle Database administrator for the BHP Iron Ore Sales Management System, and Port Quality Control System. Both of these projects were developed using ORACLE

Developer/2000 (Oracle Forms, Reports, and Graphics) on Windows 95, and using ORACLE V7 under Solaris as the database server.

The ORACLE Designer/2000 tool was used to assist with the logical and physical database design. These projects also required read and update access to tables stored within DB2 under MVS. ORACLE data replication was used for tables shared by both applications, using readonly snapshots.

I was also the Senior Analyst/programmer for the Port Quality Control System. I was responsible for design, prototyping, coding (with Developer/2000, Forms 4.5 and Reports 2.5), testing, and implementation.

05/95 – 09/95: Water Authority of Western Australia
442 Murray Street, Perth

Position: Oracle DBA

I was the Oracle Database administrator for the Project Management Information System (PMIS) project. This is a distributed database application utilising Unix servers running Oracle V7 at regional centres and communicating with a number of IBM mainframe applications. There was a requirement for data to be able to be updated concurrently on different Unix servers.

I was responsible for identifying the concurrent update and replication issues, determining the technical options available, and then implementing the chosen option. I researched various options including Oracle replication technology. The replication of the database tables was implemented using ORACLE replication.

02/89 – 05/95: IBM Australia
Hay Street, Perth

Position: Project Leader, Developer

Rob was involved in a number of development projects which are as follows.

COBOL and LE for VSE/ESA (January 1994 to April 1995)

I was the Project Leader for porting of the COBOL compiler and COBOL component of LE/370 from MVS to VSE/ESA. This was part of a project which included the Language Environment functions, and PL/I. The project at its peak included nearly 50 staff, of which 8 were involved with the COBOL components. This project involved working with the IBM Santa Teresa Laboratory (in San Jose, USA), Boeblingen (Germany), and Hursley (UK).

The conversion required locating the operating system dependent code, and converting it to the equivalent under VSE. The project included design, coding, testing, end user documentation and shipping of the final product. The IBM Project Development guidelines were followed to ensure the delivered product complied with the quality requirements.

Enhancements for C/370 and Visualage C++ (April 1992 to December 1993)

I was the Project Leader for a project which consisted of a number of enhancements to the C/370 product under MVS and VM, and to Visualage C++ under OS/2. The enhancements were as follows:

- The Localedef utility, Locale dependent C functions, and Code Set conversion utility were ported from AIX to C/370 under MVS and VM and Visualage C++ under OS/2. These provide facilities to enable programs to be written that are portable to other countries, and languages. The C functions provide POSIX and ISO/C compliant functions for character classification, collation, monetary, numeric and time formatting. The Code Set conversion utility allows data to be converted from one code page to another, such as ASCII to EBCDIC. It also includes conversion of data between the different double-byte character sets, such as Japanese.
- Functions to support packed decimal arithmetic were added to C/370.
- The routines within C/370 to convert characters to floating point numbers, and visa versa were rewritten to improve the accuracy.

- Some of the Input/Output routines of the C/370 library were rewritten as part of a rewrite of all the I/O routines.

These tasks involved design, coding, unit testing, and provision of the information to be included within the products manuals. At the peak, this project had a staff of 12 people. The development of these enhancements was coordinated with the other development that was occurring concurrently at the IBM Toronto Laboratory.

High Level Assembler (December 1991 to April 1992)

I was a designer on the High Level Assembler project. I was responsible for the changes required to allow the Assembler to run under VSE. I was also the technical writer responsible for the High Level Assembler Programming Guide.

Language Product Service (July 1991 to December 1991)

I was a member of the team providing worldwide support for a number of IBM language products, including OS/VS COBOL, VS COBOL II, and PL/I. This involved assisting customers with their problems, and providing fixes to the products.

C/370 (February 1990 to June 1991)

I was the Project Leader for the conversion of C/370 from MVS to VSE. I was responsible for the overall technical design of the product, and coordination of all tasks to ensure the project completed on schedule. This involved communication with all IBM laboratories involved with the project, high level and detailed design, coding, testing and preparation of manuals and shipping of the completed product.

This project required changes to the VSE operating system, CICS/VSE, and to the C compiler. These changes were performed by three different IBM laboratories, in three different countries. The design and scheduling of these changes were organised to ensure they were completed, and available when required to ensure the project completed on schedule.

I was responsible for the establishment of the maintenance environment to handle the resolution of any problems found. This included a regression testing facility to ensure any fixes that are produced do not cause other errors within the product.

VS COBOL II (March 1989 to February 1990)

I was a designer on the project to convert VS COBOL II from MVS to VSE. I was involved in the high level design, detailed specifications, coding, testing and preparation of the manuals. I was responsible for the Compiler, DOS/VS COBOL compatibility, RES support and Batch Debug.

01/84 – 02/89: State Energy Commission of Western Australia
Wellington Street, Perth

Position: DBA, Developer

During the five years I was at the SEC, I was involved in several projects including:

Database Administration - 3 1/2 years

Database support for FMS (Financial Management System) and PIMS (Personnel Information Management System) including assistance to application programmers, data analysis, database changes, database reorganisation, performance and tuning, implementation and testing.

Production support for backups, database recovery and reorganisation including on-call support.

Security Administration including general administration of ACF/2 and OAS, helping users solve any security related problems, construction of ISPF panels, installation of new releases of ACF/2 and system modifications when required.

Coding of ACF/2 exits and utility programs, using Assembler.

Testing and implementation of DBRC.

Performance/tuning of production databases.

Pilot study of IEW (Information Engineering Workbench) including evaluation of the applications used for the study.

Shelf Gas Administration Project - 3 months

Application programming using CICS, COBOL and DL1

Development Centre - 1 year

Setting up of a design for BMS Applications

Induction and initial training of new graduate staff

Error handling for ABENDs and DL1 Status code errors via LINKED to modules

Edit Control System to provide field validation via a CALLED program

HELP display system

Standard Menu System for CICS

Evaluation and installation of INTERTEST, a CICS application debugging aid.

These involved use of CICS, SDF, COBOL, Assembler, DL1 and VSAM.