

# *Andrew Barnett*

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## **PROFILE**

20 years Oracle database development and analysis, specialising in application-layer and back-end SQL and PL/SQL. OLTP, decision-support systems, 10 years of data warehousing, strong focus on data integrity. Expert in SQL application tuning.

Freelance Website construction, administration and management with open-source Web applications. Install, configure, theme, populate and manage shopping carts, CMS, blogs, photo galleries, wikis.

Deep interest in the use of social media and other Web technologies to facilitate communities, communication, co-operation and knowledge sharing.

## **INTERESTS**

Web development, design and publishing; Apple Mac computers; reading; writing; listening to music; cooking; wine; walking; garden landscaping; sustainable living; residential architecture; photography; spending time with my family.

## **SKILLS**

### **Technical**

- ▶ Data migration and transformation
- ▶ Oracle SQL and PL/SQL development
- ▶ Oracle SQL tuning
- ▶ Relational and dimensional database design
- ▶ Data warehousing
- ▶ Oracle database administration (application focus)
- ▶ Mentoring and knowledge transfer
- ▶ Website administration and management (open-source Web applications)

### **Key Products and Technologies**

- ▶ (X)HTML and CSS.
- ▶ Oracle RDBMS 10g, 9i, 8i, 8, 7.x, 6.x, 5.x
- ▶ Oracle Utilities (SQL\*Plus, SQL\*Loader, etc.)
- ▶ SQR
- ▶ SQL\*Forms 4.5, 3.0, 2.x
- ▶ Many other Oracle tools that are no longer current, such as RPT and SQL Reportwriter

- ▶ UNIX (Solaris, BSD)
- ▶ Mac OS X
- ▶ Open-source Web applications such as Zen-Cart, Wordpress, Textpattern, Zenphoto, various other CMS, wikis.

## EDUCATION

### **The University of Melbourne, Australia**

**1986 – 1988**

Bachelor of Arts, majors in Philosophy and English

## EXPERIENCE

All positions were located in Melbourne, Australia. I am happy to supply more details and references as required.

### **Analyst Programmer (Contract), National Australia Bank**

**2009 – present**

Working within the global data-warehouse team. Design, build, formal testing and implementation of data-integrity and trend checks to alert production support to possible processing errors.

Designed and constructed dynamic database layer to support a Business Objects application. Used PL/SQL pipeline functions—which Business Objects is able to query as a table—to dynamically transform, format and aggregate generic report output.

Performed end-to-end system testing of new Wholesale products, including building full-scale test environments.

### **Web Site Administration and Management (Freelance)**

**2008 – present**

Install and configure open-source applications: Zen-Cart (e-commerce), Wordpress, Zenphoto, Drupal, etc. Research and install additional modules.

Modify application themes with CSS, HTML and PHP to implement supplied designs.

Clean, transform and migrate data from XML and Excel documents to application databases, for example migrate XML product catalogue to Zen-Cart.

### **Business Analyst, Data Modeller (Freelance), The Project Factory, Sydney**

**2008**

A one-month assignment, work from home. Wrote the functional specification of an events database Web service for a major media organisation. Initially worked to develop the specification in accordance with Behaviour Driven Development (BDD) so that the developers could use it directly to generate unit tests using rSpec. When the project changed focus, rewrote the functional specification in plain English, and included discussion and explanation of development to date.

### **Analyst Programmer (Contract), National Australia Bank**

**2004 – 2009**

Working within the global data-warehouse team. Performed analysis, documentation, design, coding, testing and implementation of data-quality fixes and new system components. Performed peer code reviews. Set up and ran a departmental wiki, then led migration to central NAB wiki. Also administered management WordPress blog.

**Career Break** **2004**

Took time off to care for my children. Established a wedding-and-portrait photography business with my wife. Through that, acquired expertise in digital imaging workflow and printing. Also spent time learning (X)HTML and CSS, semantic markup and standards-compliant CSS layouts.

**Analyst Programmer, Business Analyst (Contract), National Australia Bank** **2001 – 2003**

Worked within the Finance Shared Services Centre (FSSC), the business owner of the corporate data warehouse.

Main technical resource for the Reconciliation and Control Framework project, an FSSC-sponsored project to assure ongoing data quality and integrity within the warehouse. Participated in the business systems analysis, constructed over 100 checks and controls, performing analysis, design, programming and supervisory duties. Also constructed a dynamic, database-driven, XML/XSLT Web-presentation layer.

Later worked within the ISI (SAP) programme, around the data acquisition from the data warehouse for the SEM Banking component. Performed data-quality analysis, and designed and constructed many checks and controls.

**Analyst Programmer (Contract), Fosters Group International** **2000 – 2001**

Worked within the Information Warehouse team as an analyst programmer on 2 projects: MIKE (Market Intelligence Knowledge Equity) and Beringer Blass Wine Clubs.

Shared responsibility for table and code design, construction, testing and implementation. Also had input to architectural matters, and provided technical assistance to the support and DBA teams in SQL tuning and diagnosing database problems.

**Application Tuning Consultant (Contract), Mark Gurry & Associates** **2000**

Worked at a major transportation client tuning a new PeopleSoft installation, which had extensive performance problems. Used my advanced knowledge of the Oracle dynamic-performance views, analysing trace output, and manipulating table and index statistics. Helped reduce the overnight batch processing from over 24 hours' elapsed time to under 5 hours.

Also performed some DBA duties and consulted to PeopleSoft and Renaissance—a PeopleSoft consulting business, later renamed Cedar—on code design and general Oracle matters.

**Analyst Programmer (Contract), National Australia Bank** **1999 – 2000**

Worked within the Finance Shared Services Centre (FSSC) in a consulting role. FSSC was taking business ownership of the new corporate data warehouse and had to migrate much of its MI reporting from an older DB2 system. My goal was to transfer knowledge to FSSC and assist staff to perform the work themselves.

Conducted introductory and training sessions on Oracle SQL, query tuning, and the warehouse data structures. Performed tuning and development work, and provided technical advice to management on areas such as security. Also liaised with, and represented end-user interests to, technical areas such as the development and production support teams, DBAs. Consulted back to both the development and support teams and challenged them where appropriate, thus helping to establish a better environment for the users.

**Analyst Programmer (Contract), Shell Services International** **1998 – 1999**

Initially worked within the Human Resources IS team, to assist with the Year 2000 compliance project for the HR and payroll system. Evaluated several vendors' attempts to convert the existing system components to a Y2K-compliant platform.

Spent the remainder of my time at SSI on general Oracle work, largely for the CATS project: a help desk and electronic-commerce site for Shell's commercial customers.

Also completed some moderately complex Microsoft Access VBA work, integrating a dozen, disparate data sources for input to a data warehouse.

**Analyst Programmer (Contract), Victorian Workcover Authority** **1998**

Worked in the data warehouse team to deliver a weekly, incremental extract from the data warehouse to a new system known as Field Service.

Performed design, construction, testing, etc. of PL/SQL packages from functional specifications, including query tuning and adhering to the VWA's quality methodology.

**Analyst Programmer (Contract), BP Australia** **1996 – 1998**

Worked in the ISP Satellite implementation for Australia, as part of a small team involved in the redevelopment of a Supply Management Planning system to interface with BP's ERP software.

Joint responsibility for the code design and implementation. Performed analysis, design and construction of application PL/SQL packages and database triggers from brief, high-level specifications.

Designed and constructed a PL/SQL application framework, including functions such as enhanced error handling, asynchronous message logging, batch queuing of PL/SQL jobs, auditing, and more.

Also provided advice and backup to the designated Oracle "Centre of Expertise" within the ISP project

**Analyst Programmer (Contract), HIH Winterthur (CE Heath)** **1994 – 1996**

Worked in the International Systems Department of C. E. Heath (later HIH Winterthur). ISD was responsible for a Californian Workers' Compensation system called PLUS. The system was complex—both the forms and the business—and large: there were over 400 forms in total.

Performed general bug-fixing, minor enhancements and problem solving; analysis, design and construction of new system concepts and components; defined development and coding standards and was part of a standards committee. Also performed peer code reviews, and provided extensive help and consultation to colleagues in programming, program design and database design.

**Analyst Programmer, BHP Transport & BHP IT** **1992–1994**

Worked in the Client Services section of the IS department Support. Performed support, maintenance and enhancement of the dozen or so operational Oracle systems. Also performed DBA duties for 2 months.

**Programmer, State Bank Victoria** **1989 – 1992**

Worked on the Information Centre project: a Management Information System built using Oracle on an IBM 3090 mainframe. A fore-runner of EIS and data warehousing, it provided a summary of all the bank's retail accounts.

Constructed a dynamic-query tool—using SQL\*Forms, SQL\*Plus and batch files—that allowed users to define arbitrary data sets and download the data to Lotus 123 for analysis. Also performed application DBA duties and software evaluations.