

# Bert D. Scalzo

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## Experience

### **Quest Software Inc., Database Domain Expert, Mar 2000 - Present**

- Design and implement features for multiple products:
  - Toad for Oracle, SQL Server, DB2 and MySQL
  - Benchmark Factory
  - Toad Data Modeler (formerly CASE Studio)
  - Reveal Net Knowledge Xpert for PL/SQL
  - Reveal Net Knowledge Xpert for DB Admin
  - SQL Navigator
  - SQL Optimizer
  - Quest Central for Oracle
- Admin for Solaris, HP-UX, AIX, Linux, Tru64 and Windows database servers
- DBA for all development and QA test Oracle databases, versions 7.3 to 10.2
- Publish & present technical papers, magazine articles, web-casts and books
- Provide DBA services to customers – especially benchmarking and data warehousing
- Work with vendors & strategic partners to perform and publish benchmarking papers
- Design custom benchmarks for customers – some of which may get trademarked

### **Embarcadero Technologies Inc., Director of Product R&D, Jul 99 – Mar 2000**

- Design and implement DBA features for DBArtisan
- Design and implement data modeling features for ER/Studio
- Admin for Solaris, HP-UX, AIX, Linux, Tru64 and Windows database servers
- DBA for all development and QA test Oracle databases, versions 7.3 to 9.2
- Publish & present technical papers
- Provide DBA pro-bono services to customers
- Provide DBA contract services to customers
- Note – also free to do DBA contract work on side

### **EDS, Data Warehousing Architect, Apr 97 – Jul 99**

- Lead Architect and Database Administrator for multi-terabyte data warehouse for Southland Corp. 7-11 convenient stores' Point of Sale and EDI Order information
- Responsibilities
  - Logical and physical data modeling
  - DDL generation and synchronization
  - Database and application SQL tuning
  - Database sizing, backup and recovery
  - Write & review warehouse loading code
  - Oracle TAR submission and resolution
  - Oracle version testing and installation
- Hardware
  - 1 HP V Series 2200 SMP box
  - 2 HP K Series 460 SMP boxes
  - 2 EMC RAID disk array cabinets
- Software
  - HP-UX 10.20 and 11.0
  - Logic Works ERwin 3.5.2
  - Information Advantage 5.7
  - Oracle 8.0.5 and 8.1.5 (8i)
  - Oracle Enterprise Manager
  - Oracle Performance Pack
  - Embarcadero's DBArtisan
  - Platinum's Plan Analyzer

## **Experience (continued)**

### **The Associates, Senior Director Systems Development, Aug 96 – Apr 97**

- Executive for the “Commercial Strategic Systems Office” (CSSO) charged with transitioning the commercial division to model driven, client server application development for all ongoing OLTP projects and the data warehousing initiative
- Warehouse Design: Operational Data Store (ODS) with Star Schema data marts
- Responsibilities
  - Oversee all data warehouse and client server projects
  - Provide cross project modeling, planning and prioritization
  - Develop and maintain the enterprise data and process models
  - Translate project data models into normalized database designs
  - Develop corporate wide client server development standards
- Hardware
  - Sun SPARC 2000 servers
- Software
  - Solaris 2.5
  - Logic Works ERwin 2.6
  - Powersoft’s S-Designer 5.1
  - Powersoft’s PowerBuilder 5.0
  - Oracle Designer 2000
  - Oracle 7.2.3 and 7.3.2
  - Platinum’s Plan Analyzer

### **Logic Works Inc, Principal Consultant/Instructor, Jan 96 - Jul 96**

- Perform enterprise wide data modeling utilizing ERwin
- Conduct enterprise wide function modeling using BPwin
- Translate data models into normalized database designs
- Audit data models for modeling flaws and design issues
- Teach IDEF1X and IE data modeling using ERwin
- Instruct IDEF0 process modeling utilizing BPwin
- Write Oracle specific product documentation and on-line help
- Review product development specifications related to Oracle
- Perform Oracle database administration (tuning, backup, recovery, etc.)

### **Orange Systems, Manager Product Development, Aug 95 - Jan 96**

- Manage 10 Oracle Designer 2000 application developers
- Develop new ALCIE V accounting suite (GL, AP, AR, etc.)
- Administer MS Project work plans for entire development effort
- Oversee quality of project’s data models and database design
- Govern product’s software quality assurance testing procedures
- Tutor staff on good modeling and code generation techniques
- Provide technical support for prior ALCIE software versions
- Perform routine HR tasks (interviews, reviews, hiring, firing, etc.)
- Submit quarterly personnel, software and hardware budgets
- Orchestrate “VAR” conference to demo next generation software

### **Oracle Corporation, Principal Consultant/Instructor, Jul 93 - Jul 95**

- Manage customer projects having 4-10 Oracle consultants
- Perform enterprise wide systems modeling using Designer 2000
- Translate data models into normalized database designs
- Audit data models for modeling flaws and design issues
- Generate client/server application code utilizing Designer 2000
- Augment Designer 200 generated Oracle Forms and Reports
- Perform PL/SQL and PRO-C coding, debugging and tuning
- Render database administration (tuning, backup, recovery, etc.)
- Teach all of Oracle Education’s courses: focus DBA and CASE
- Assist with Oracle Education’s curriculum development

## **Experience (continued)**

### **Nationwide Mutual Insurance, *Project Lead*, Apr 92 - Jun 93**

- Project lead for 7 member Oracle CASE and DBA SWAT team
- Co-lead for 26 insurance projects each having 6-10 developers
- Steer migration from mainframe to client server and Oracle
- Assist senior management's strategic migration planning
- Construct enterprise data and process models from projects
- Translate data models into normalized database designs
- Audit data models for modeling flaws and design issues
- Generate client/server applications utilizing Oracle CASE
- Augment Oracle CASE generated SQL Forms and Reports
- Perform PL/SQL and PRO-C coding, debugging and tuning

### **Battelle Memorial Institute, *Lead Analyst*, Oct 84 - Apr 92**

- Primary Oracle and Ingres database administrator
- Perform Oracle PRO-C coding, debugging and tuning
- Perform application tuning via VMS PCA and UNIX prof
- Software configuration management administrator
- Backup HP and Sun UNIX system administrator
- Construct project management, accounting, DOE, DOD, manufacturing and network automation control applications on DEC-VAX and UNIX platforms
- Port software from DEC VAX-VMS to HP UNIX and PC's
- Develop end-user interfaces for Basis/Plus software
- Perform Quality Assurance (QA) testing of Basis/Plus
- Maintain Help-Desk application for Basis/Plus calls
- Answer Help-Desk phone for Basis/Plus customers

### **Ohio State University, *Teaching Assistant*, Jan 84 - Sep 84**

- Teaching assistant for OSU Computer Science Department
- Aid students with their programs and homework assignments
- Grade students' programs, homework assignments and exams

## Education

### Doctorate Computer Science

- LaSalle University, 1994, Mandeville Louisiana
- Dissertation - **Architecting Corporate Data Models**

### Masters Computer Science

- The University of Dayton, 1992, Dayton Ohio
- Thesis - **Complex Relational Database Design**

### Bachelors Computer Science

- The Ohio State University, 1985, Columbus Ohio
- Focus - **Relational Database Management Systems**

### Masters Business Administration (MBA)

- Chadwick University, 1990, Birmingham Alabama
- Focus – General Business Administration

### Fellow Life Management Institute (FLMI)

- Life Office Management Association, 1993, Atlanta Georgia
- Insurance Industry Financial Investment Designation

### Associate Customer Service (ACS)

- Life Office Management Association, 1993, Atlanta Georgia
- Insurance Industry Customer Service Designation

### Oracle Masters Certifications

- Database Administration V6 & V7
- CASE Systems Analyst V5.0 & 5.1
- CASE Developer/Designer V5.0 & 5.1
- SQL Forms 3.0 Application Developer

### Recent Oracle Classes

- A Very Short class on Very Large Databases
- Oracle 8: New Features for Administrators
- Oracle 8i: New Features for Administrator

## Awards

EDS "7-11" outstanding employee service award, 1998

U.S. Naval Letter of Appreciation and Recognition, 1995

Oracle Education's Gold Quality Club: 1995, 1994, 1993

Battelle Commercial & Industrial Innovation Award, 1989

Ohio State University's Engineering Summa Award, 1982

Ohio State University's Freshman Scholar Award, 1981

Society of Engineers Certificate of Recognition, 1981

## Publications

### Author

- Database Benchmarking: Practical methods for Oracle & SQL Server, Oct 2006, Rampant Tech Press
- TOAD Pocket Reference, 2<sup>nd</sup> Edition, Jun 2005, O'Reilly Publishing
- Oracle DBA Guide to Data Warehousing and Star Schemas, Feb 2003, Prentice Hall
- The TOAD Handbook, Feb 2003, Sam's Publishing

### Technical Editor & Contributing Author

- TOAD Pocket Reference, Patrick McGrath, Aug 2002, O'Reilly Publishing
- Advanced Oracle PL/SQL: Programming with Packages, Oct 1996, by Steven Feuerstein, O'Reilly Publishing
- Oracle 8 DBA Q&A with Scripts, Jan 1999, by Noel Yuhanna, Manning Publications
- Oracle PL/SQL Programming, August 1997, by Steven Feuerstein, O'Reilly Publishing
- Oracle Built In Packages, Apr 1998, by Steven Feuerstein, O'Reilly Publishing

### Oracle Corporation

- Improving Oracle Data Warehouse Performance via Partitioning, Sep 96
- Optimizing Oracle on Linux – Part 1, Aug 02
- Optimizing Oracle on Linux – Part 2, Oct 02

### Oracle Informant Magazine

- Partitioning to Improve Oracle Data Warehouse Performance, Jun 96
- Fast and Dangerous: The Misunderstood Oracle ROWID, Jul 96
- Data Warehousing: Preventing Star's from imploding into Black Holes, Aug 96
- Effective Database Design: Primary and Unique Keys, Jan 97
- Effective Database Design: Unique and Foreign Keys, Feb 97
- Effective Database Design: Derivation and De-Normalization, Mar 97
- Effective Database Design: Super and Sub Types, Apr 97

### PC Week Magazine, Enterprise Systems Software Reviews

- InfoModeler's InfoModeler 3.1 vs. Logic Works Erwin 3.0, Sep 17<sup>th</sup> 97
- Platinum's Plan Analyzer 2.4.1 vs. Quest's SQLLab 2.1c, Sep 29<sup>th</sup> 97
- Sybase's PowerBuilder 6.0, Oct 13<sup>th</sup> 97
- Embarcadero's DBArtisan 4.01, Jan 5<sup>th</sup> 98
- Brio Technology's Brio Enterprise 5.5, Feb 2<sup>nd</sup> 98
- Sylvain Faustus' SQL-Optimizer/DBA 1.1, Mar 2<sup>nd</sup> 98
- Oracle's Change Management Pack 1.5.5, Apr 20<sup>th</sup> 98
- Data Junction's Data Junction 6.5, May 25<sup>th</sup> 98
- Oracle's Designer 2000 2.1, Jun 15<sup>th</sup> 98
- Embarcadero's ER/Studio 2.6, Jul 27<sup>th</sup> 98
- Savant's Q Diagnostic Center 2.0, Sep 7<sup>th</sup> 98
- Visible System's Easy ER 2.0, Oct 5<sup>th</sup> 98
- Sylvain Faust's SQL-Programmer 2.8, Oct 26<sup>th</sup> 98
- LECCO's SQL-Expert 1.5, Dec 7<sup>th</sup> 98
- Platinum's SQL-Compass 1.0, Dec 14<sup>th</sup> 98
- Platinum's SQL-Station/Team 4.1, Jan 18<sup>th</sup> 99
- Quest's SQLLab-Xpert 3.1, Feb 1<sup>st</sup> 99
- Embarcadero's DBArtisan 5.0, Mar 22<sup>nd</sup> 99
- Popkin's System Architect 2001, Apr 12<sup>th</sup> 99
- Embarcadero's Rapid SQL Pro, Apr 26<sup>th</sup> 99
- Quest's SQL Navigator 3.1, May 31<sup>st</sup> 99
- Platinum's SQL Compas 1.5, May 31<sup>st</sup> 99
- Embarcadero's ER Studio 3.5, Jun 28<sup>th</sup> 99
- BMC's SQL Explorer 3.0.01, Jul 26<sup>th</sup> 99
- RevelaNet's PL/Generator 99.1, Aug 9<sup>th</sup> 99
- Data Junction's Data Junction 7.0, Sep 13<sup>th</sup> 99