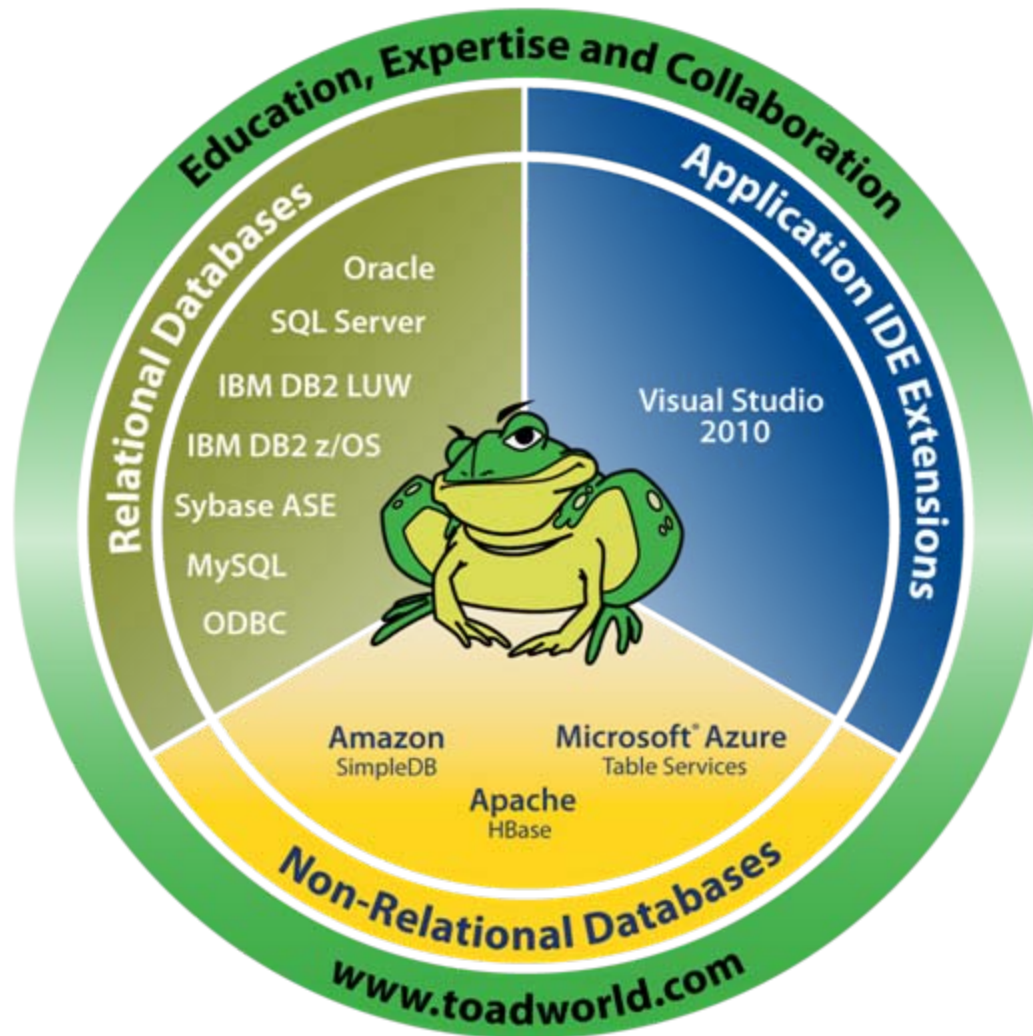# Toad® for Oracle tips & tricks

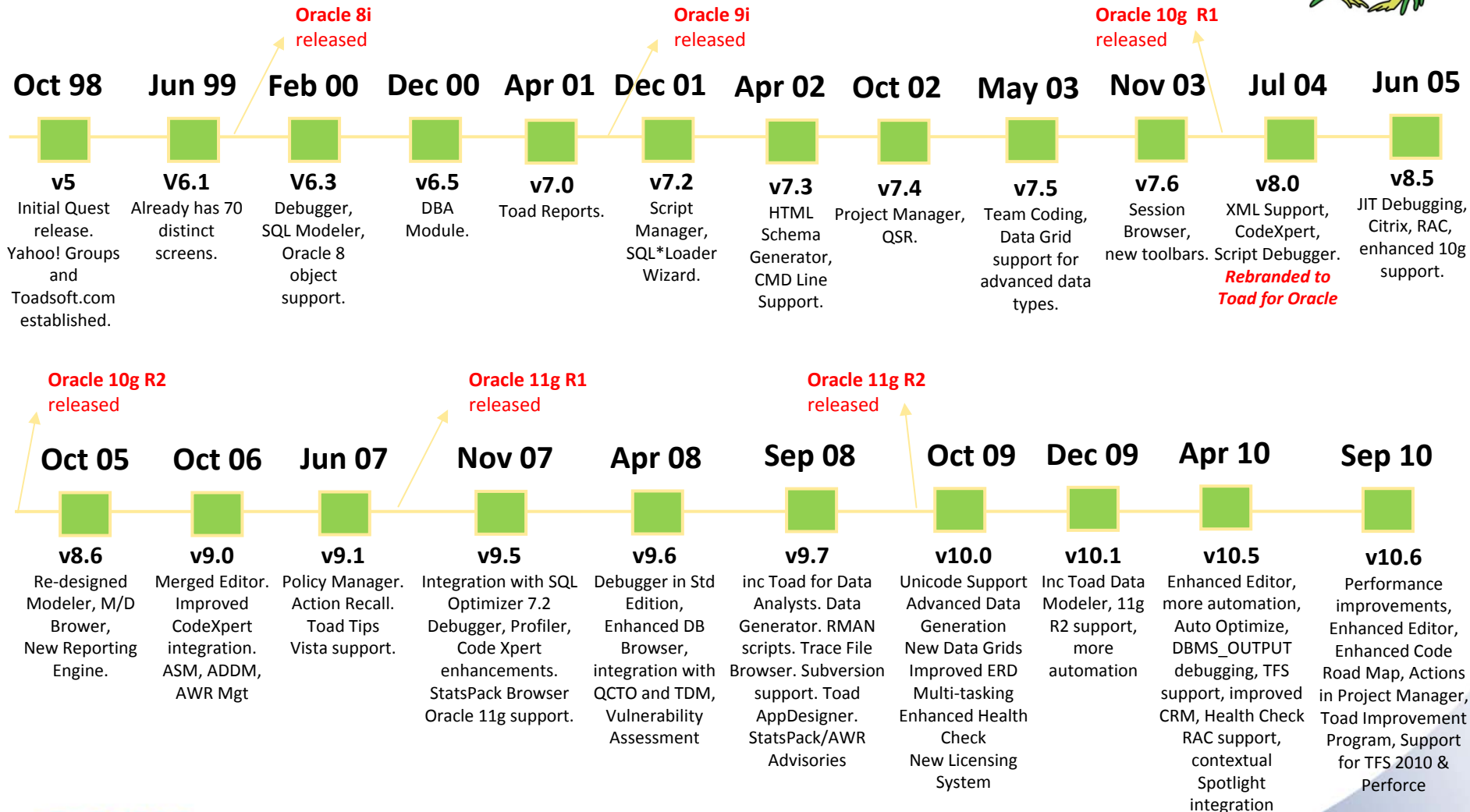Martin Rapetti
Dev. Solutions Sales Manager
Quest Software
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Toad® Solutions

Toad® for Oracle Release History

Oracle 8i released

Oracle 9i released

Oracle 10g R1 released

Oct 98	Jun 99	Feb 00	Dec 00	Apr 01	Dec 01	Apr 02	Oct 02	May 03	Nov 03	Jul 04	Jun 05

v5
Initial Quest release. Yahoo! Groups and Toadsoft.com established.

V6.1
Already has 70 distinct screens.

V6.3
Debugger, SQL Modeler, Oracle 8 object support.

v6.5
DBA Module.

v7.0
Toad Reports.

v7.2
Script Manager, SQL*Loader Wizard.

v7.3
HTML Schema Generator, CMD Line Support.

v7.4
Project Manager, QSR.

v7.5
Team Coding, Data Grid support for advanced data types.

v7.6
Session Browser, new toolbars.

v8.0
XML Support, CodeXpert, Script Debugger.
Rebranded to Toad for Oracle

v8.5
JIT Debugging, Citrix, RAC, enhanced 10g support.

Oracle 10g R2 released

Oracle 11g R1 released

Oracle 11g R2 released

Oct 05	Oct 06	Jun 07	Nov 07	Apr 08	Sep 08	Oct 09	Dec 09	Apr 10	Sep 10

v8.6
Re-designed Modeler, M/D Brower, New Reporting Engine.

v9.0
Merged Editor. Improved CodeXpert integration. ASM, ADDM, AWR Mgt

v9.1
Policy Manager. Action Recall. Toad Tips Vista support.

v9.5
Integration with SQL Optimizer 7.2 Debugger, Profiler, Code Xpert enhancements. StatsPack Browser Oracle 11g support.

v9.6
Debugger in Std Edition, Enhanced DB Browser, integration with QCTO and TDM, Vulnerability Assessment

v9.7
inc Toad for Data Analysts. Data Generator. RMAN scripts. Trace File Browser. Subversion support. Toad AppDesigner. StatsPack/AWR Advisories

v10.0
Unicode Support Advanced Data Generation New Data Grids Improved ERD Multi-tasking Enhanced Health Check New Licensing System

v10.1
Inc Toad Data Modeler, 11g R2 support, more automation

v10.5
Enhanced Editor, more automation, Auto Optimize, DBMS_OUTPUT debugging, TFS support, improved CRM, Health Check RAC support, contextual Spotlight integration

v10.6
Performance improvements, Enhanced Editor, Enhanced Code Road Map, Actions in Project Manager, Toad Improvement Program, Support for TFS 2010 & Perforce

QUEST SOFTWARE®
Smart Systems Management

What are the development team's main challenges?

Productivity: Get it done quickly
Collaboration: Share it

Quality: Make it work properly

Performance: Make it work fast

Maintainability: Make it easy to maintain

Introducing *the* Solution
Toad® Development Suite for Oracle…

- ***Toad for Oracle Xpert Edition* (includes Quest SQL Optimizer for Oracle):** ensure efficient and accurate development, utilising a best practices workflow and validate database code for the best-possible performance

- ***Quest Code Tester for Oracle*** : perform thorough, automated functional code testing

- ***Benchmark Factory for Databases Oracle Edition***: validate code against performance SLAs and test code for performance and scalability before deployment

- ***Toad Data Modeler*** : visually create database structures and provide documentation or make changes to existing models

- ***Toad for Data Analysts***: query, understand and report on data directly from almost any database or data source

What are the DBAs main challenges?

Productivity: Get it done quickly

Maintenance: Simplify and automate routine tasks

Performance: Diagnose and resolve problems

Change: Mitigate the impact of changes

QUEST
SOFTWARE®
Smart Systems Management

Introducing *the* Solution
Toad® for Oracle DBA Suite

- ***Toad for Oracle Xpert Edition* (includes Quest SQL Optimizer for Oracle):** simplify database administration through task automation and validate code to ensure the best-possible performance

- ***Toad DB Admin Module*:** compare and synchronize database schema, objects and data and assess your risk for security vulnerabilities

- ***Spotlight on Oracle***: visualize database components in real time and pinpoint performance problems quickly so you can easily eliminate bottlenecks

- ***Benchmark Factory* for *Databases* (Oracle Edition):** replay database workload to test performance under production-like conditions or run standard benchmarks like TPC-H , Scalable Hardware, etc

- ***Toad Data Modeler* :** visually create database structures and provide documentation or make changes to existing models

- ***Toad for Data Analysts*:** query, understand and report on data directly from almost any database or data source

DEMO

What is the COST ?

- **The cost is the time spent on single block reads, plus the time spent on multi-block reads, plus the CPU time required.**
- **All divided by the time is takes to do a single block read.**

  This means that the cost of a query is the PREDICTED EXECUTION TIME, counted in **number of single block read times** and is effectively the unit of measure of the cost.

SQL Plan Management: A Brief History

- One of the biggest challenges any DBA faces is the ability to identify not only which SQL statements are performing poorly, but also capturing the best execution plans for SQL statements and making those plans available to all statements that could benefit from them.

- The evolution of these solutions makes for an interesting history lesson.

  – Oracle 8i stored outlines fix the execution plan
  – Oracle 10G SQL Profiles hold additional information that vastly improve the execution plan, but they still need to be refreshed
  – Oracle 11G stores a history and can switch when necessary
  – And you can do all this using additional tools

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