

Conquest Software Solutions database tools for Oracle provide the best solution for supporting and maintaining „legacy PL/SQL“ code.

## „Legacy PL/SQL - what is it?“

Generally speaking legacy PL/SQL refers to code inherited by a team or an individual programmer (externally or internally). PL/SQL code older than eight years is considered legacy PL/SQL code.

Frequently the original developer is not available or known anymore and/or the code is badly or not documented at all. In many cases the processes run in stored programs are not understood in detail. These situations are difficult to support and maintain.

IT departments are reluctant to touch legacy code for fear of opening Pandora's box. The lack of knowledge prevents technical progress and cost efficiency. Running mission critical applications under these conditions represents a constant risk.

“Don't touch anything which is not broken” is a common strategy. A very unsatisfactory and risky situation CIOs of large enterprises face globally.

*ClearSQL* and *ClearDB* Documenter are the only Oracle database tools capable of creating Flowcharts (logic), Call Tree diagrams

Quantifying their value in money is impossible. Developing them was a huge investment in terms of money and know-how. Replacing them requires another significant investment. The risk of operational disruption looms when legacy code is touched without proper tools and adequate caution.

In times of continuing cost pressure and required cost cuts CIOs strive to reduce the maintenance costs of their PL/SQL environments while ensuring 100% availability of their Oracle databases.

Well-known companies such as **T-Mobile, Telecom Italia, Credit Suisse, General Dynamics, Deutsche Bank, Yahoo!, Moody's, Eaton, Standard Chartered Bank, Emerson, Walt Disney, Cap Gemini, US Army, Lockheed Martin**, to name just a few, acquired Conquest tools to maintain their PL/SQL code, keep their Oracle databases running, secure and reduce maintenance costs at the same time.

*ClearSQL*, the leading PL/SQL code analyzer, and *ClearDB* Documenter, the unique Oracle database documenter, offer new features and functions, e.g. a Database Security Audit for Oracle, currently not provided by other competitive products.

A very attractive combination. In particular when the implementation of enterprise wide coding standards is a company objective.

### The perfect remedy when it comes to „legacy PL/SQL“!

(data flow) and CRUD matrices (relationship between processes and the data they use) of PL/SQL code, documenting Oracle databases (12c) and performing a comprehensive Oracle Database Security Audit.

Conquest database tools address the „Oracle Developer and Database Administration“ community. They are a powerful set of tools for the so called „legacy PL/SQL“ market and help to maintain Oracle legacy PL/SQL code. The automated code documentation capabilities provide opportunity for code improvement and innovation.

Conquest tools allow Oracle users to support and maintain legacy PL/SQL code, keep it operational and warrant 24/7 availability while progressing their IT environment.

Currently billions of PL/SQL stored programs are running in Oracle databases all over the world. They are key to keep the databases up and running.

### The first and most important thing about standards is to have them.

#### Conquest - the tools

The tools are, in many aspects, ahead of competition. They offer innovative, in part unique functionality to address, visualize and manage database complexity. At a significantly more attractive price.

#### Conquest - the users

Licenses of *SQLDetective*, *ClearDB* Documenter and *ClearSQL* have been sold to end-users in more than 50 countries globally including industries such as Finance, Automotive, Manufacturing, Telco, Public Sector, IT Consulting, Aviation, Defense, etc.

#### Conquest - the company

Conquest Software Solutions is committed to developing and distributing intuitive, customer-centric, professional tools designed for Oracle Developers and DBAs. Unique product capabilities return unprecedented results and instant ROI.

# Conquest Software Solutions

**ClearSQL for Oracle**  
PL/SQL Analyzer & Illustrator

**ClearDB for Oracle**  
Oracle DB Documenter

**SQLDetective for Oracle**  
DB Development & DBA Tool

Maintaining legacy applications, documenting old and unfamiliar code, analyzing scripts somebody else wrote. A difficult and time-consuming task.

### Is there a solution?

# Yes! Conquest Tools for Oracle are the solution.



*ClearSQL* is an automated code review and quality control tool for Oracle PL/SQL. Analyzing 1,000s of PL/SQL scripts with a single click. Flowcharts, Call Tree diagrams and CRUD matrices are created from PL/SQL. The visualization allows instant understanding of the code.

- detects code errors, code review rule violations and other PL/SQL code anomalies
- creates detailed Code Metrics reports from PL/SQL (*Cyclomatic Complexity [McCabe v(G)], Halstead Volume, Maintainability Index, etc.*)
- documents PL/SQL via „clickable“ HTML reports
- monitors code complexity trends during development cycles to improve maintainability
- syncs PL/SQL code with its import source (file or DB)
- automates analysis of PL/SQL code via scheduled jobs
- creates PSEUDOCODE from existing PL/SQL
- checks naming rules incl. scope & data type definition
- analyzes Oracle Forms and PL/SQL libraries (v. 6 - v.11)
- provides Syntax-highlighting code folding Script Editor
- creates a detailed and easy to filter code analysis report
- ideal when implementing enterprise coding standards (*e.g. code review rules, DB object naming conventions, code formatting, enforcing code documentation, etc.*)



*ClearDB* is a unique Oracle database documenter. It generates complete and detailed documentation of Oracle databases up to 12c. It documents 59 database object types, their status and dependencies, the structure and source code modules. In depth analysis and illustration of PL/SQL and the database is provided. The illustration includes Flowcharts, Call Tree, ER and R&D diagrams and CRUD matrices of PL/SQL code - all „clickable“.

- generates hierarchically structured DB documentation including an Observation Report as „clickable“ interactive HTML: *DB → Schema → Object Type → Object*
- checks naming conventions of 59 database object types
- compares two *Docus* or one *Docu* with its source database - detailed comparison report
- detects code errors, code review rule violations and other PL/SQL code anomalies
- performs a comprehensive and detailed Security Audit of an Oracle database
  - checks more than 630 potential DB security issues
  - detects weak and insecure passwords, detailed assessments of users and schemas for least privileges
  - tests for root kits, backdoors and forensic evidence of possible attacks
  - reviews user privileges and profiles and detects duplicate rights granted in the database
  - checks PL/SQL for obvious security coding vulnerabilities



*SQLDetective* comprises 50 Tools and 31 database object wizards (soon to be 59 supporting 12c). It's a state of the art development solution accelerating the development, the maintenance and the administration of Oracle databases.

*SQLDetective* administers and monitors sessions, tablespaces, data files, rollback segments, users & roles, and access grants for objects using Storage Manager, Session Navigator, Database Monitor, Top Session Locator and Database Examiner.

It's a unique tool to improve the quality of PL/SQL code.

- develops database objects using visual, intuitive, easy-to-use Object Editors
- writes, debugs and executes stored programs, triggers and other objects using Stored Program Editor
- executes SQL, PL/SQL blocks and SQL\*Plus commands over multiple concurrent database sessions with the multi-threaded SQL Editor
- analyzes and creates Flowcharts and Call Tree diagrams of PL/SQL code using the embedded *ClearSQL* engine
- manages schemas and DB objects using Schema Extractor, Schema Compiler and Schema Analyzer
- supports multiple simultaneously opened objects
- compares DBs, Schemas and Objects, displays the differences and generates scripts to synchronize