

# ClearDB FREE

## ClearDB FREE at a Glance

ClearDB FREE is a free licensed and time limited version based on ClearDB 2.5 Documenter

## ClearDB FREE Illustrates

ClearDB FREE performs analyzing, formatting and illustration of PL/SQL code and includes it into the Documentation. No changes are made to the original files in the database

ClearDB FREE automatically produces database documentation directly from an ORACLE database instance. It provides a very easy way to document all Oracle databases that a user manages, and to create a new version of the documentation whenever any database changes are made. ClearDB FREE easily and quickly

ClearDB FREE is a very powerful Oracle database documenter, which provides PL/SQL code analyzing, formatting and visualizing (*Flowcharts and Call Tree diagrams and CRUD1 and CRUD2 type matrices*) while at the same time creates database documentation. Industry accepted complexity measures (*McCabe, Halstead and Maintainability Index, MI*) are used. The code review module catches over 60 common coding

documents a large set of 47 schema (*tables, views, procedures, functions, packages, etc.*) and non-schema (*contexts, directories, profiles, users, roles, etc.*) object types as well as source code modules (*packaged and stand-alone subroutines*) for Oracle up to 11gR2.

mistakes and gives suggestions for good programming practices. Up to 99% of SQL and PL/SQL documented keywords and reserved words are supported by our own PL/SQL Parser. The primary output format of the database documentation is HTML. In addition to HTML, ClearDB FREE produces documentation in CHM (*Microsoft's Compiled HTML Help*) format as well.

[www.mycleardb.com](http://www.mycleardb.com)



## ClearDB FREE and its Observation Report

ClearDB FREE documents databases anomalies and parser errors as well

The „**Database Observations**“...  
...section of the documentation represents the database objects where the Parser detected errors or alerts; or where the database status is invalid or disabled; or where the source code is wrapped.  
„**Parser: Objects with Errors**“...  
...displays a summary table of all invalid database objects on the selected level (*database/schema/object type*) and a list of detailed information about the error

position and error text for each object.  
„**Parser: Objects with Alerts**“...  
...displays a summary table of all database objects in which the Parser found alerts on the selected level (*database/schema/object type*) and a list of detailed information about the warning line and warning text for each object. This report helps to quickly identify objects that require user attention.

## Supports 42 Oracle DB Object Types

ClearDB FREE documents a complete set of 47 schema and non-schema object types for Oracle up to version 11gR2:

CLUSTER	POLICY	FLASHBACK ARCHIVE
CONTEXT	POLICY GROUP	MATERIALIZED VIEW
DATABASE LINK	PROCEDURE	MATERIALIZED VIEW LOG
DIMENSION	PROFILE	REFRESH GROUP
DIRECTORY	QUEUE	RESOURCE CONSUMER GROUP
EDITION	ROLE	RESOURCE PLAN
FUNCTION	SEQUENCE	RESTORE POINT
INDEXTYPE	SYNONYM	ROLLBACK SEGMENT
JAVA CLASS	TABLE	SCHEDULER CHAIN
JAVA SOURCE	TABLESPACE	SCHEDULER CREDENTIAL
JOB	TRIGGER	SCHEDULER JOB
LIBRARY	TYPE	SCHEDULER JOB CLASS
OPERATOR	TYPE BODY	SCHEDULER PROGRAM
OUTLINE	USER	SCHEDULER SCHEDULE
PACKAGE	VIEW	SCHEDULER WINDOW
PACKAGE BODY		SCHEDULER WINDOW GROUP

Additionally, the user may include to documentation PUBLIC SYNONYMs, PUBLIC DATABASE LINKs and RECYCLE BIN objects.

## ClearDB FREE and its Distinctive Features

- Generates complete and detailed database documentation for any Oracle database; supports Oracle 7 --> Oracle 11gR2
- Support for a complete set of 47 schema and non-schema object types for Oracle version up to 11gR2
- Analyzes and documents PL/SQL objects, their statuses and dependencies
- Automated code review reports parser observations (*syntax errors, PL/SQL warnings, and more...*)
- PL/SQL Parser (*Analyzer*) supports up to 99% of SQL and PL/SQL keywords and reserved words
- Includes PL/SQL code diagrams into the database documentation (*Flowchart, Call Tree, CRUD1, CRUD2*)
- Includes Code Metrics information of PL/SQL code
- Includes a „Code Audit“ page for each stored object
- Includes a database observation report with Parser and Database errors, alerts and warnings
- Includes a complex report about Database errors or Database anomalies
- Generates documentation in HTML (*default format*) and CHM formats
- Sends one or a selection of documentation from History by Email (*zipped*)
- Provides an easy-to-use graphical user interface that is based on a step-by-step wizard technology
- OSD (*Online Support Desk*) dramatically simplifies communication with Technical Support and keeps the application up-to-date
- Logs on to a Oracle database by using TNS, LDAP and Direct connections

## ClearDB FREE - DB Documentation Sample 1

The Code Audit Section

- Code Review
- Structure View
- Code Metrics
- Flowchart
- Call Tree
- CRUD1 matrix

The screenshot shows the 'Function: HR.GET\_DEPT\_LOCATION - Structure View' page. On the left is a tree view of the database documentation. The main area displays the function's structure, including 'Declaration Analysis', 'Cursor Declarations', and 'DML Analysis'. A red arrow points from the 'Cursor Analysis' section to the corresponding code lines in the bottom pane.

```

00000015 V_RESULT DEPARTMENTS.LOCATION_ID%TYPE;
00000016 A INTEGER;
00000017
00000018 BEGIN
00000019
00000020 --Open the cursor
00000021
00000022 OPEN C_DEPT(N_DEPTNO);
00000023 --Fetch query result into V_RESULT
00000024

```

## ClearDB FREE - DB Documentation Sample 2

CRUD matrix and Call Tree (clickable)

The screenshot shows the 'Package Body: HR.TEST\_PKG - CRUD1' page. It features a 'Matrix 1: Data Object' table, a 'Matrix 2: Data Object / Stored Object' table, and a 'Call Tree for table: DEPT' diagram. A red arrow points from the 'DEPT' entry in Matrix 1 to the 'DEPT' node in the call tree.

Object Name	C	R	U	D
HR.COUNTRIES			U	
HR.DEPT	C	R		
HR.EMP				D

Legend: C - Create, R - Read, U - Update, D - Delete

Data Object / Stored Object	TEST_PKG.FIRST_LEVEL_SUBROUTINE_1	TEST_PKG.FIRST_LEVEL_SUBROUTINE_1
HR.COUNTRIES	U	
HR.DEPT		CR
HR.EMP		D

## ClearDB FREE - DB Documentation Sample 3

The screenshot displays the ClearDB documentation interface. On the left is a navigation tree with categories like Overview, Documentation Summary, Schemas, HR, and various database objects. The main area shows a flowchart for the function `NO_PACKAGE.GET_DEPT_LOCATION`. The flowchart starts with `OPEN C_..`, followed by `FETCH C_DEPT INTO V_..`. A decision diamond asks `NOT C_..?`. If 'Yes', it leads to `RAISE_APPLICATION_ERROR ('-20001', 'Department # | ..')` and then `CLOSE ..`. If 'No', it also leads to `CLOSE ..`. An `Except ..` block leads to `OTHERS ..?`, which has a 'Yes' path to a `C_DEPT ..?` decision diamond. If 'Yes', it leads to `CLOSE ..` and then `RAISE ..`. If 'No', it leads to `RAISE ..`. Below the flowchart, the corresponding PL/SQL code is shown with line numbers 00000026 to 00000032.

```

00000026  FETCH C_DEPT
00000027      INTO V_RESULT;
00000028
00000029  --Check result
00000030
00000031  IF NOT C_DEPT%FOUND
00000032  THEN

```

### “Click-able” PL/SQL Flowcharts, Call Tree Diagrams and CRUD Matrices

ClearDB FREE uses ClearSQL's engine to create and include PL/SQL code Flowcharts and Call Tree diagrams that are “click-able”. Click on any element within a flowchart or diagram, and the relevant line of PL/SQL code will be shown in the source code section below

the flowchart or diagram. This is a superior aid for PL/SQL developers for understanding and maintaining legacy PL/SQL code. A Call Tree diagram is a perfect aid to reading and understanding the data and control flow of bad or undocumented (*legacy*) PL/SQL code.

### CRUD Matrix

It documents the data elements that objects access in a database

During analyzing CRUD (*Create, Read, Update, Delete*) matrices are created. There are two types of CRUD matrices available in ClearDB: CRUD1 (*on script level*) and CRUD2 (*on project level*).

CRUD matrices are clickable. Clicking on a object name in a matrix, loads the code and the relevant line of PL/SQL is highlighted in the code editor.

### ClearDB FREE License Policy & Technical Support

ClearDB FREE is a free licensed and time limited version based on ClearDB 2.5 Documenter

- ClearDB FREE is a free licensed and time limited version on the basis „as it is“
- Time limitation = 180 days after installation
- A ClearDB FREE license can be renewed and extended for an additional 180 days
- Renewing will be done online and a user will have to re-register
- Limited Technical Support

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# ClearDB FREE - FAQ

## Who is a Typical User of ClearDB FREE?

- Oracle DBAs, Oracle Developers, Oracle Consultants or Project Managers who need a professional and complete set of documentation of their Oracle database. Documentation includes database structure, schemas and objects as well as their statuses and dependencies

## What Makes ClearDB FREE and other ClearDB Versions Unique in the Market?

- In addition to the usual content about databases contained in documentation, such as database structure-schema-object descriptions, *ClearDB FREE* is a unique Oracle Database Documenter that also includes:
  - a) PL/SQL code Flowcharts (*clickable, synchronized with the code*)
  - b) PL/SQL code Call Tree diagrams (*clickable, synchronized with the code*)
  - c) PL/SQL code CRUDE matrices. There are two types of “clickable” CRUD matrices available in *ClearDB*:
    - CRUD1 on script level
    - and
    - CRUD2 on database level
  - d) Complex reports of its parser observations; e.g. invalid objects, syntax errors, PL/SQL code review warnings, and more ...
  - e) This parser observation report is hierarchically structured (*database, schema and object type level*)
- Database documentation generated by *ClearDB FREE* offers a very easy way to quickly navigate through it. Related information is linked together and found with a single click. No need to browse through all pages.
- Users can jump directly from/to a referenced table, from error information to the specific object description/details, and much more...
- *ClearDB FREE* is using *ClearSQL*'s engine to provide a unique way of creating and maintaining Oracle database documentation on a professional level.

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## ClearDB FREE and ClearDB 3 Documenter

- *ClearDB FREE* is a free licensed and time limited version on the basis „as it is“; time limitation = 180 days after installation
- *ClearDB 3 Documenter* is the latest innovation/version of the product family „*ClearDB Documenter*“ and is not available as a free license
- Download from [www.myclaredb.com/products](http://www.myclaredb.com/products) a comparison between *ClearDB FREE Documenter* and *ClearDB 3 Documenter*

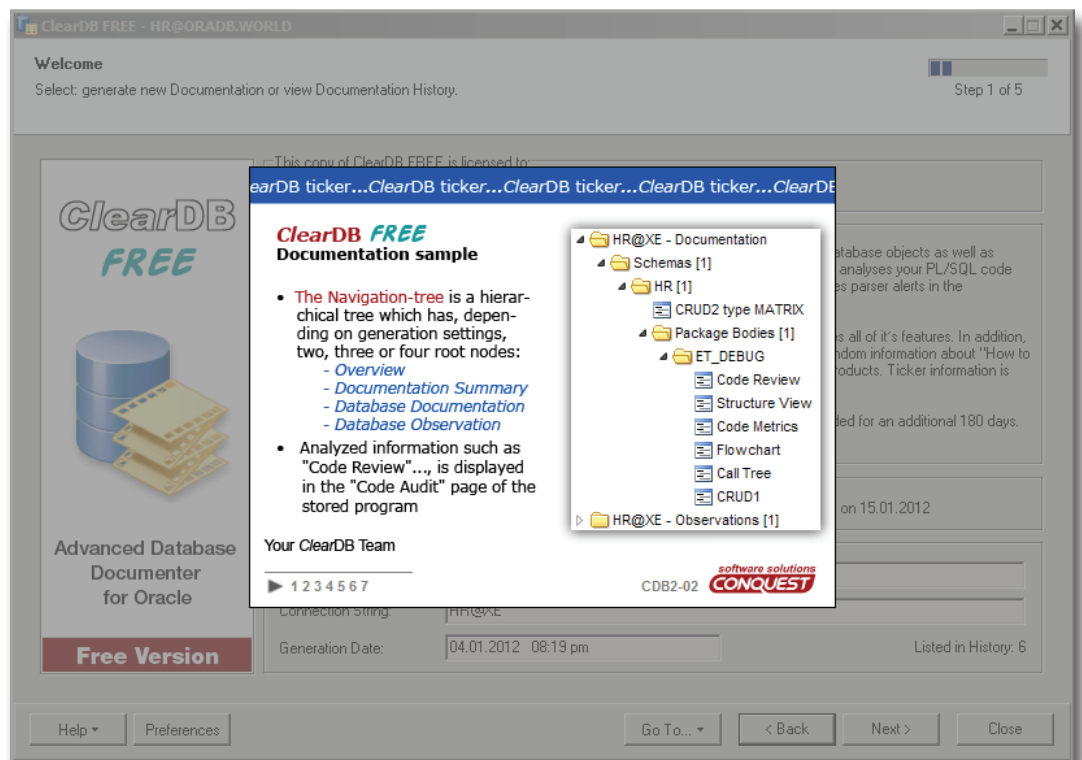
## How is ClearDB FREE Positioned?

- As a unique, advanced, free and time limited Oracle Database Documenter
- ClearDB FREE allows Oracle user to explore the power/benefit of a professional and advanced Oracle Database Documenter without any cost or feature limitation
- ClearDB FREE combined with ClearSQL offer a new unique solution for Oracle DBAs and Oracle Developers and set a new standard to keep legacy PL/SQL code working and free of errors

## ClearDB FREE and its set of features

- ClearDB FREE is based and equivalent to ClearDB 2.5 Documenter (*latest published build of it*) and includes all of its features.
- In addition it includes a feature called „ClearDB Ticker“. This „Ticker“ will display, from time to time, random information about „How to use ClearDB FREE“, and Conquest Software Solutions as a company and its other products.
- Ticker information is shown only for a max. of 10 seconds or less. The frequency of displaying ClearDB Ticker information will be very low. (*e.g every 6h or longer of running time...*)

## ClearDB FREE - ClearDB Ticker Sample



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- Limited Technical Support
  - no granted response
  - requests „How can I...?“ may not be answered
  - maintenance builds (*bug fixing*) and minor improvements may provided

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