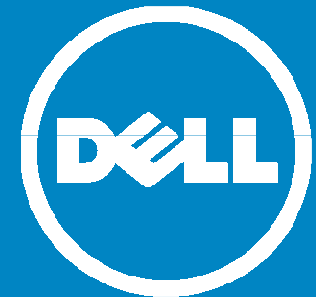

Toad for Oracle

Martin Rapetti
Business Development Manager



Toad[®] for Oracle



Toad for Oracle is a productivity toolset that provides efficient and accurate development and administration to Oracle database professionals of all skill and experience levels. It is the most widely-used tool of its kind on the market.

Which version is right for me

- Toad for Oracle Freeware (available from Toadworld.com)
- Toad for Oracle BASE edition
- Toad for Oracle Professional edition
- Toad for Oracle Xpert edition (includes SQL Optimizer for Oracle)
- Toad for Oracle Development Suite
- Toad for Oracle DBA Suite (Exadata, RAC and non-RAC versions available)



Edition	Persona(s)	Feature	Function	Benefit
All Editions	DBAs	Oracle® 12c support	Support for the latest release of the Oracle database, 12c – includes support for Oracle's multi-tenancy feature	Multi-tenancy is a new feature of the Oracle 12c database. It enables the hosting of multiple database instances on a single DB server. This helps organizations who are conducting database consolidation.
All Editions	DBAs	ETL functionality	Import/Export data to other DB platforms via ODBC	A convenient way to ensure data integrity across database platforms.
All Editions	Developers	Code Refactoring	Fixes inefficient database queries by restructuring	Helps developers build better-performing queries by providing them with the ability to restructure them.
All Editions	All	Database Login	Enhancements to the Login screen enable diagnosis of database connection issues and provide recommendations for resolution.	During Toad installation/configuration, there may be challenges connecting to your databases. The Database Login screen now pinpoints the issue and makes recommendations for how to resolve.
All Editions	DBAs	Schema management	Updates made to Toad schema management functionality allow you to save and restore data sets and options.	The ability to save and restore data sets and options makes it easier for you to work between Test and Production databases.
All Editions	Developers	Git SCM support	Version control support for Git SCM has been added.	Greater flexibility in the VCS that can be used in conjunction with Toad

SQL
Optimization
for
Oracle

Toad Xpert



What is the COST ?



- The cost is the time spent on single block reads, plus the time spent on multiblock reads, plus the CPU time required, all divided by the time it 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 : extra help



- 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 (DBMS_SQLTUNE)
 - Oracle 11G stores a history and can switch when necessary – otherwise known as **plan baselines**

```
ALTER SESSION SET optimizer_capture_sql_plan_baselines=TRUE;
ALTER SESSION SET optimizer_use_sql_plan_baselines=TRUE;
```



SQL Optimization for Oracle

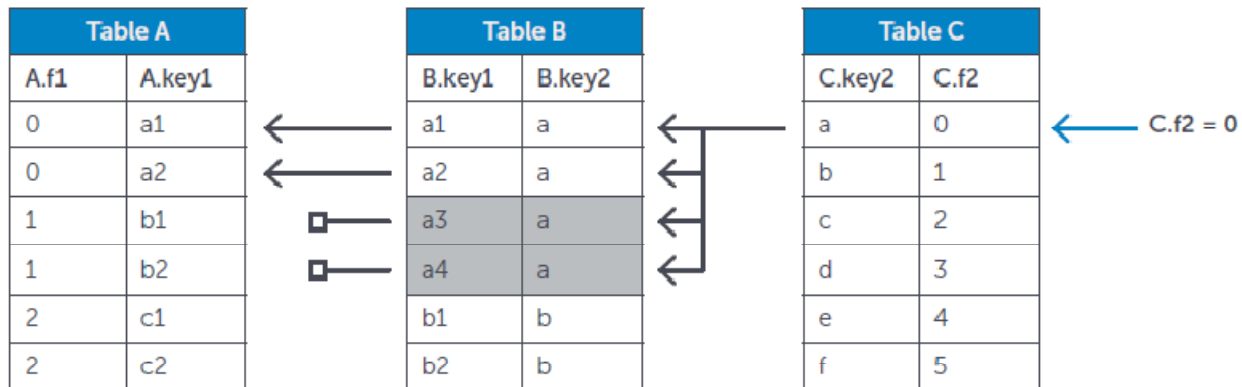


- **SQL Optimization**
 - SQL rewrites / hints & index recommendations
 - Deploy plans using stored outlines or planned baselines
- **Batch SQL Optimization (SQL & PL/SQL code review)**
- **Plan Control of SQL Plan Baselines / Stored Outlines**
- **Index Impact Analysis**
 - What could be the affect of deploying an index
- **Application index recommendation**

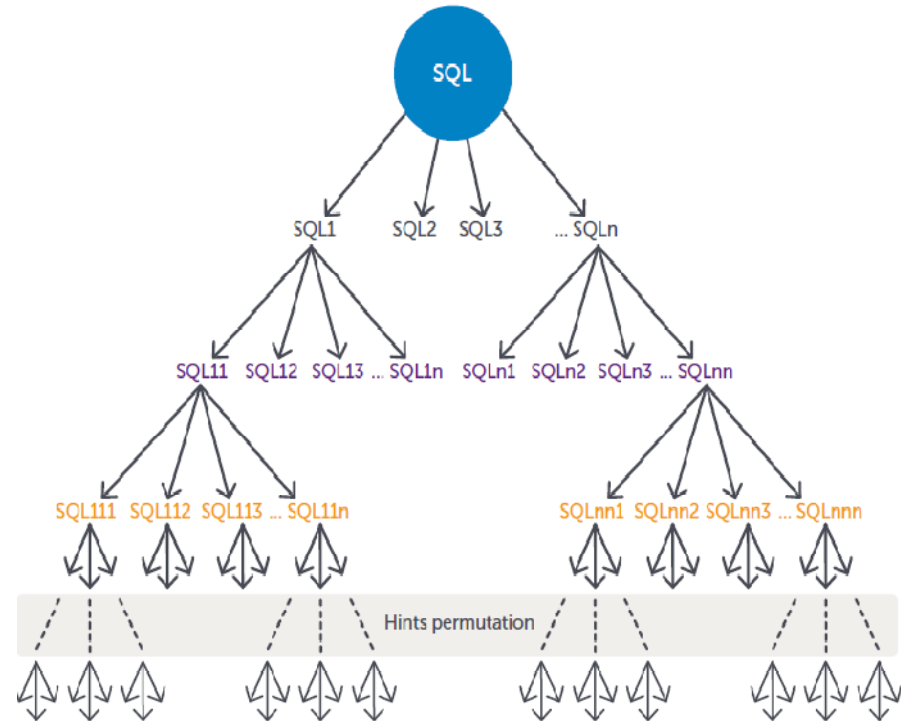
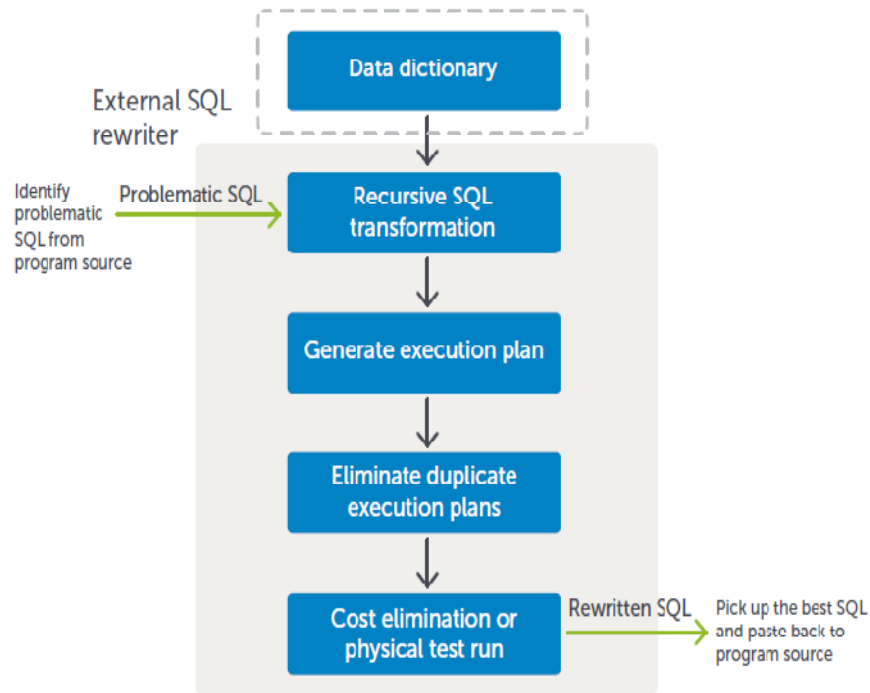


Consider the following example

```
SELECT *  
FROM A, B, C  
WHERE A.key1 = B.key1  
AND B.key2 = C.key2  
AND C.f2 = 0  
AND A.f1 = 0
```



SQL Optimization for Oracle



Demo

Toad for
Oracle Xpert



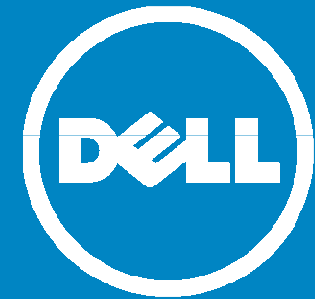
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ToadWorld.com

- Connect with peers and world-renowned subject-matter experts
- Share knowledge and become one of the experts
- Get help and access resources from inside Toad for Oracle

The screenshot shows the Toad World website homepage. At the top left is the Toad World logo with the tagline "Connected Intelligence". To the right is a search bar and "SIGN IN | SIGN UP" links. Below the logo are four navigation tabs: "DISCUSS in the community", "LEARN from expert resources", "FOCUS on a platform", and "EXPLORE a product". The main content area features a large blue banner with a photo of a woman in a red shirt and a man in a white shirt. The banner text reads: "Toad for Oracle, justified! See how Toad delivers an astounding return on investment. And show decision makers the value of purchasing Toad. Click Here for More Info >". Below the banner is a search bar with the text "Ask Toad World" and "Connect with the community of over 3 million database pros". At the bottom, there are four statistics: "3m unique visitors", "20k resource", "10k questions answered", and "Get More Out by Logging In Sign in now with your email address." The Dell logo is visible in the bottom right corner.



www.Toadworld.com
