

## Optimizer Adaptive Features In Oracle Database 12c Release 2

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**Optimizer Adaptive Features In Oracle**  
OPTIMIZER\_ADAPTIVE\_FEATURES enables or disables all of the adaptive optimizer features, including adaptive plan (adaptive join methods and bitmap pruning), automatic re-optimization, SQL plan directives, and adaptive distribution methods.

**OPTIMIZER\_ADAPTIVE\_FEATURES - Oracle**  
In Oracle Database 12c Release 1, the database parameter optimizer\_adaptive\_features controls all of the adaptive features like this: In Oracle Database 12c Release 2, this parameter has been made obsolete and replaced with two new parameters that control adaptive plans and adaptive statistics separately, like this:

**Optimizer Adaptive Features In Oracle Database 12c Release ...**  
Optimizer Adaptive feature parameter in Oracle For Enable and Disable Adaptive features. OPTIMIZER\_ADAPTIVE\_PLANS. It used by query optimizer for considers adaptive plans. If it's set to TRUE (the default).... OPTIMIZER\_ADAPTIVE\_STATISTICS. It controls whether the query optimizer uses SQL plan ...

**Optimizer Adaptive feature parameter in Oracle | Smart way ...**  
Answer: Oracle notes that optimizer\_adaptive\_features enables or disables all of the adaptive optimizer features, including adaptive plan (adaptive join methods and bitmap plans), automatic re-optimization, SQL plan directives, and adaptive distribution methods. The optimizer\_adaptive\_features parameter is part of the Oracle12c adaptive execution plans are a add-on to Oracle dynamic sampling, a new feature of dynamic statistics.

**optimizer\_adaptive\_features tips - Burleson Oracle Consulting**  
2017-09-20 Off By Markus Flechtner. in Oracle Database 12c Release 2 the parameter OPTIMIZER\_ADAPTIVE\_FEATURES was declared "Obsolete". It was replaced by the parameters optimizer\_adaptive\_statistics, optimizer\_adaptive\_plans and AUTO\_STAT\_EXTENSIONS to allow better control of the adaptive features of the optimizer but what happens, if you try the set OPTIMIZER\_ADAPTIVE\_FEATURES on a 12.2 database?

**Setting OPTIMIZER\_ADAPTIVE\_FEATURES in Oracle Database 12c ...**  
Adaptive Query Optimization is a term used in Oracle Database 12c to describe a collection of features that work together to allow the cost based optimizer (CBO) to improve the accuracy of execution plans. Some of the features are renamed versions of functionality from previous releases, while others are new to Oracle Database 12c.

**ORACLE-BASE - Adaptive Query Optimization In Oracle ...**  
To recommend settings for adaptive features in 12.1.0.2. Scope. Applicable to all customers running Oracle Database 12.1.0.2. Adaptive features are a set of capabilities that enable the optimizer to make run-time adjustments to execution plans and to adjust plans for future executions based on the results of previous executions.

**Recommendations for Adaptive Features in Oracle Database ...**  
OPTIMIZER\_ADAPTIVE\_FEATURES enables or disables all of the adaptive optimizer features, including adaptive plan (adaptive join methods and bitmap plans), automatic re-optimization, SQL plan directives, and adaptive distribution methods.

**How to set the value of optimizer\_adaptive\_features ...**  
Once you've upgraded the database to Oracle Database 12c Release 2 or Oracle Database 18c, use the default adaptive feature settings. To do this, simply don't include any adaptive feature parameters in your database's initialization parameter file. In other words, there's no need to set optimizer\_adaptive\_plans or optimizer\_adaptive\_statistics.

**Optimizer Adaptive Features and Upgrading to Oracle ...**  
The optimizer is able to adapt join methods on the fly by predetermining multiple sub-plans for portions of the plan. For example, in Figure 3, the optimizer's default plan choice for joining the orders and products tables is a nested loops join via an index access on the products table.

**The Optimizer in Oracle Database 19c**  
OPTIMIZER\_ADAPTIVE\_PLANS controls adaptive plans. Adaptive plans are execution plans built with alternative choices that are decided at run time based on statistics collected as the query executes. Setting this parameter to false disables the following adaptive features: Nested loop join/hash join selection

**OPTIMIZER\_ADAPTIVE\_PLANS - Oracle Help Center**  
Enabling Oracle 12.2 ADAPTIVE Features In Oracle 12.1.0.2 Oracle Database 12.2 introduces the new split-up adaptive parameters, OPTIMIZER\_ADAPTIVE\_PLANS and OPTIMIZER\_ADAPTIVE\_STATISTICS. And the key trigger to cure potential and known performance issues in Oracle ...

**OPTIMIZER\_ADAPTIVE\_FEATURES obsolete In Oracle 12.2 ...**  
By far the biggest change to the optimizer in Oracle Database 12c is Adaptive Query Optimization. Adaptive Query Optimization is a set of capabilities that enable the optimizer to make run-time adjustments to execution plans and discover additional information that can lead to better statistics.

**Optimizer with Oracle Database 12c Release 2**  
For example, if Oracle detects that the single table cardinality estimated made by the optimizer is different from the actual number of rows returned when accessing the table, it will automatically create a directive to perform dynamic statistics for the table.

**Adaptive Optimization - Kerry Osborne's Oracle Blog**  
In sum, the optimizer\_features\_enable is best used as a specific hint for specific SQL statements because you will not lose any benefits from loosing a new optimizer feature. Oracle freelists notes this issue, where the lower the value of of optimizer\_features\_enable, the faster the execution of the SQL statement:

**optimizer\_features\_enable tips - Burleson Oracle Consulting**  
Adaptive feature in optimizer is used for making the run time discussion about choose of execution plan and take discussion of Stats. This feature try to generate more optimal plan for query. Adaptive feature in oracle 12c caused the performance issue in many platform.

**Optimizer adaptive feature caused performance in Oracle ...**  
Wrong Result with Optimizer\_adaptive\_features=false (Doc ID 2674438.1) Last updated on OCTOBER 02, 2020. Applies to: Oracle Database - Enterprise Edition - Version 12.1.0.2 and later Information in this document applies to any platform. Symptoms

**Wrong Result with Optimizer\_adaptive\_features=false**  
The new Oracle 12c optimizer adaptive features are just great and work well out of the box in most cases. Recently, however, I've experienced my very first problem with SQL Plan Directives migrating a database to 12c, so I would like to share it. Disclaimer 1: this is a specific problem that I found on ONE system.