**Database Engine Tuning Advisor**

The Database Tuning Advisor (DTA) is a tool that comes with the SQL Server and is used to analyze a workload and give recommendations that will enhance query performance. The DTA makes recommendation to the following:

* Adding indexes (clustered, nonclustered, and indexed views)
* Adding partitioning
* Adding statistics

Note, before we can use the DTA, we must have a workload file to work against. This workload is a collection of data gathered by the SQL Profiler.

You can use direct queries, trace files, and trace tables generated from SQL Server Profiler as workload input when tuning databases.

When you start analysis with Database Engine Tuning Advisor, it analyzes the provided workload and recommends to add, remove, or modify physical design structures in your databases like creating indexes and partitioning.

It also recommends if additional statistics objects need to be created to support physical design