

Teradata Performance Services

Achieve optimum Teradata solution performance

Your company depends on predictable performance and timely information from your enterprise data warehouse. Having invested significant time and resources,



you expect your data warehouse to operate at its full potential. To ensure that you get timely answers to your compelling business questions, you need to ensure that your warehouse doesn't become victim to performance problems that can occur as more users, queries, and applications slowly creep onto your data warehouse.

Reach the competitive edge to achieve peak performance with Teradata® Performance Services, a key component of the Teradata Customer Services portfolio. Teradata Performance Services is a flexible spectrum of services that address performance throughout the Teradata system, at both the system and application levels. We can begin by targeting the most obvious areas for performance improvement and continue to address the more complex and difficult-to-find inefficiencies. When you decide to grow your system, you'll know

that your size requirements have been accurately modeled to meet your specific business needs.

Time-saving, Reliable Support

The experts from **Teradata Customer Services and Professional Services** can assist you with application and system tuning. Our experienced Teradata performance consultants can identify and diagnose a vast array of issues that adversely affect performance. We know that when it comes to system tuning, no level of detail is insignificant. That's because data warehouse performance is dependent on so many variables. Our consultants have a thorough knowledge of Teradata, enabling them to effectively analyze warehouse performance. Through careful analysis, planning, and monitoring, they can ensure predictable performance and response time so that your users know they can rely on their data warehouse. With all Teradata Performance Services, our consultants will work with your organization to establish best practices and the transfer of knowledge in the deployment of these services.

Teradata Performance Services include:

System Performance Management focuses on early identification of potential performance problems before they can adversely impact your environment. Proactive performance management is imperative to achieving predictable response times. As part of this service, our consultants can identify best practices for performance

management, such as the performance monitoring tools, the logging of environmental changes, defining and setting up baseline "performance" queries, and collecting ResUsage data for periodic review. This service covers both operating system and Teradata system-level performance.

Application Performance Management

enhances the performance of your existing applications. The service includes three targeted areas for application performance improvement: application design assessment, Teradata Database performance enhancements, and SQL design analysis. Teradata's highly skilled consultants, working along with your IT team, will assess your application for performance. This foundation of information equips our consultants with knowledge for new feature performance enhancements. Your applications can expect benefits from features like Value List Compression (VLC), Partition Primary Index (PPI), and Materialized Views. Lastly, we will assist in validating your SQL queries for performance optimization. We will review your SQL text and test the queries against Visual Explain to determine the efficiency of the query. Teradata will conclude this service with a report on performance improvements and recommended next steps.

Upgrade Validation and Planning ensures that all queries, including those embedded in your applications, will run predictably when you upgrade or grow your system. The Teradata System Emulation Tool and Visual Explain will be used to migrate data from the production system to the emulation

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system and compare optimizer plans between your current and future environments. This will allow for early identification of any differences in optimizer plans and allow you to validate any changes prior to the new system going into production. Other tools, such as Index Wizard and Statistics Wizard will also be used to help you optimize for your new environment.

Workload Management provides expertise to analyze, setup, and tune Teradata workloads. Managing multiple workloads with varying priorities requires careful consideration. The support of various concurrent workload types from short tactical queries to complex analytical queries requires a tool to balance distinctive processing requirements. Teradata Priority Scheduler and Teradata Dynamic Query Manager (TDQM) provide the right tools for the job. Our consultant team, working along with your IT team, will model your current workload and assist you in the effective setup, tuning, and monitoring of various performance groups and query processing rules.

Capacity Planning gives you the knowledge and tools to manage and plan future resource requirements. Proper capacity planning can be a highly cost-effective way of managing growth. Our consultants will help you translate the growth and increased demand of your Teradata solution into system requirements. Based on your



anticipated growth of data, number of users, and new applications, we will model a system that fits your needs. Whether you require equivalent response times or faster response times – we can provide you with comprehensive options that allow you to make educated decisions on how to proceed. With the Capacity Planning service, we begin by using components of our Performance Services to ensure your system is efficiently utilized – this step is imperative to prevent “over-configuring” your planned upgrade or expansion. As part of this service, we will train your IT staff on performance monitoring and capacity management to proactively monitor system growth and utilization – continually ensuring that you have sufficient capacity to support the growing demands on your data warehouse.

Ensure Your System's Performance, Today

Performance is a specialized skill with significant impact to your system. Teradata Performance Services were developed to help you achieve optimum data warehouse performance and capacity. Whether you use the tools and training from Teradata Performance Services or our talented team of consultants, we enable you to manage your data warehouse's performance ... so you are prepared for anything on the path to business insight.

Achieve optimum Teradata solution performance ... with Teradata Performance Services. For more information about how Teradata Customer Services can help your business, contact your Teradata representative or visit Teradata.com.

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