Greenplum Training

Training Courses

Overview

The following 3-Modules make up a comprehensive training curriculum for Greenplum Customers. By attending all modules, attendees will be fully prepared to administer and maintain a Greenplum database system. Modules can be taken independently, but Greenplum recommends that new clients and customers attend all three to prepare for a successful implementation. Classes are offered monthly for open enrollment, but on-site classes or customized classes can be arranged as well.

For Upcoming Trainings:

Check our website for current dates:

Greenplum.com/resources/education

Greenplum Fundamentals

Description:

This class introduces students to Greenplum architecture (Hardware and Software) and the concept of the "Shared Nothing" MPP environment. Students become familiar with Greenplum terminology, data distribution and high level optimization methods.

Greenplum Administration

Description:

This class centers around the installation, upgrade and maintenance of the Greenplum database system. Students create an instance, database and schemas. The class covers configuration settings at the database and operating system levels. Students perform all essential database administration and monitoring tasks with hands on labs for each module. Database backup and recovery, workload management and access control are also taught.

Fundamentals Overview

Duration: One Day/8 hours
Audience: Developers, DBA's End Users
Format: Lecture & short labs
Recommended Pre-Requisites:

- SQL Experience. RDBMS, or PostGREsql is helpful
- General UNIX experience

Administration Overview

Duration: 2 Days/16 hours
Audience:
DBA's and SysAdmins
Format: Lecture and Hands-on Labs
Recommended Pre-Requisites:
Greenplum Fundamentals
Topics:

1. Hardware Considerations
2. Installation and System Initialization
3. PostgreSQL Client Programs
4. Server Configuration
5. Data Definition Language
6. Table Partitioning
7. Roles, Privileges and Role-Based Resource Queues
8. Data Loading
9. Data Manipulation Language and Data Query Language
10. Performance Tuning
11. System Administration
12. Redundancy and High Availability
13. Backups and Restores
14. Database Internals
15. Greenplum Support Procedure

Greenplum

Greenplum Advanced SQL and Tuning

Description:

This class is designed as a hands on "how to" implement projects using the Greenplum database. Students will be required to evaluate logical models and business requirements in order to determine the best physical design for a small Greenplum database. Students will create the physical models, load data using various Greenplum specific techniques and apply best practices with respect to partitioning and secondary index choices. Query tuning using the PostGreSQL Explain utility,advanced reporEng methods using OLAP and grouping sets and the use of temporary tables will be presented. Students will use these techniques to write well tuned detailed business intelligence reports and queries. Access control and workload management will be taught in order to create a highly opEmized and secure Greenplum database..

Module Schedule

Monday - Fundamentals
Tuesday & Wednesday – SQL, Adv. SQL and Tuning
Thursday & Friday – Administration and Monitoring

Pricing for Training

$1500 per single day module
$6000 per week/5 days, all modules

Contact

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Advanced SQL and Tuning Overview

Duration: 2 days/16 hours
Audience:
Developers and DBA's
Format: Lecture and Hands-on Labs
Recommended Pre-Requisites:

- Greenplum Fundamentals Course
- Unix or Linux
- SQL. PostgreSQL is helpful.
- VI or EMACS
- Shell Scripting

Topics:

1. Review Greenplum "Shared Nothing" Architecture & Concepts
2. Implement a Greenplum Data Mart to:
   a. Create a Greenplum Database and Schemas
   b. Evaluate Logical and Physical Data Models
   c. Determine Distribution Keys and create tables
   d.Determine and implement partitioning and indexing strategies
   e. Determine and implement optimal load methodologies
3. By fulfilling reporting requirements students will:
   a. Be able to "Explain the Explain Plan"
   b. Create and use statistics
   c. Create detail and summary reports using OLAP functions
   d. Create and use temporary tables
   e. Write basic PostGREs functions and create data types
   f. Identify and optimize problem queries