

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

MySQL Administration

Course Description:

This course covers administration and optimization of MySQL servers and applications, and is aimed at advanced application developers, administrators.

Pre-requisites:

Experience with MySQL is required.

Course Content:

- **At completion of this course, you should be able to:**
 - Identify the various components of a MySQL Server and their function.
 - Identify and navigate elements in the physical structure of a MySQL Server on disk and in memory.
 - Understand the differences between MySQL RPM, binary and source distributions.
 - Perform a custom installation on Windows or any standard Unix.
 - Assess the various upgrade considerations and perform an upgrade.
 - Know where to find/create configuration files and understand their structure.
 - Set up appropriate logging and interpret log output.
 - Understand the concepts of MySQL security, managing user privileges on different levels.
 - Adequately and properly secure a default MySQL installation.

21a Peach Street Wokingham Berkshire RG40 1XJ

Tel 0118 979 4000 **Fax** 0118 979 4035 **Email** training@ptr.co.uk **www.ptr.co.uk**

Registered Office: Grenville Court Britwell Road Burnham Bucks SL1 8DF Company Registered No: 2442290 – VAT registration No:532 1929 56

Course Outline



Tel: +44 (0) 118 979 4000

Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk

Web: www.ptr.co.uk

- **At completion of this course, you should be able to:**
 - List and describe the different (categories of) storage engines, their specific characteristics, choosing the appropriate type.
 - Administer and maintain MyISAM and InnoDB tables on a live server.
 - Create and restore backups, recovery of MyISAM and InnoDB tables.
 - Understand transactions and concurrency control.
 - Tune server settings for different storage engines and environments.
 - Install and control replication and multiple servers.
 - Describe how the MySQL server optimizes and processes queries, including index usage.
 - Analyse query efficiency utilizing different tools and techniques.
 - Compare different design decisions and work out the optimal solution.
 - Optimize all relevant aspects of the server environment, prioritizing appropriately.

Course Duration:

2 Days