DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

Mysql Administrator Intermediate Training

Back up and restore MySQL with point-in-time recovery, read execution plans, partition large tables and run GTID replication with monitoring.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **3 days · Days 1-3**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · This curriculum	5 days · Next step

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	38 topics · Foundation to Intermediate
Hands-on labs	3 labs
Formats and fees	Live, 1:1, self-paced, corporate
Trainer and reviews	Rajesh Kumar
Enrolment	Batches, payment, contacts

WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

Course page: www.devopsschool.com/courses/mysql/mysql-administrator-intermediate-training.html
Talk to us: WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

What you will achieve

By the end of the Mysql Administrator course path, you will be able to:

1

Install and secure MySQL

Install, configure and secure MySQL 8 with roles, TLS and least-privilege users.

2

Protect and recover data

Run logical and physical backups, point-in-time recovery and replication confidently.

3

Operate MySQL at scale

Tune, monitor, cluster and migrate MySQL for highly available production systems.

WHAT THE INTERMEDIATE LEVEL ADDS

Backups, binary logs, query plans and replication

Hands-on: Backups, PITR and GTID replica. Take logical and physical backups, recover a dropped table to the minute with binary logs, and build a monitored GTID replica of the primary.

WHO SHOULD ATTEND

- Regular Mysql Administrator users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Mysql Administrator for colleagues or customers.
- Leads preparing Mysql Administrator for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Create application databases and least-privilege users, secure connections, write efficient SQL with MySQL 8 features and index tables well.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO INTERMEDIATE

Mysql Administrator Intermediate Training agenda

38 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

DAY 1 — Foundation: MySQL 8 architecture, installation, tools and configuration

Included from Foundation

1. Learning MySQL 8: Community and Enterprise editions, 8.0, 8.4 LTS and 9.x Innovation releases
2. MySQL 8 architecture: connection handling, SQL layer, optimizer, storage engines, buffer pool, redo and undo logs
3. Installation via package manager: MySQL APT and YUM repositories, mysqld service and mysql_secure_installation
4. Installation via manual package: generic binaries, mysqld --initialize, data directory, mysql user and systemd unit
5. Using tools to access the database: mysql client, MySQL Shell in SQL, JavaScript and Python modes, MySQL Workbench
6. Getting to know your database: mysql, information_schema, performance_schema and sys schemas, SHOW commands
7. Changing configuration parameters in my.cnf: option file locations, option groups and precedence
8. Changing configuration parameters online: SET GLOBAL, SET PERSIST, SET PERSIST_ONLY and mysqld-auto.cnf
9. Essential configuration parameters: innodb_buffer_pool_size, max_connections, innodb_redo_log_capacity, utf8mb4 defaults
10. Accessing the data dictionary: the transactional data dictionary in MySQL 8 and INFORMATION_SCHEMA views
11. Essential InnoDB: tablespaces, file-per-table, clustered primary keys, MVCC, row locks and the doublewrite buffer
12. MySQL usage basics: creating schemas and tables, choosing data types and running first queries

DAY 2 — Essential: Users, roles, security, SQL and indexing

Included from Essential

13. Creating databases and users for applications: CREATE DATABASE, CREATE USER, host patterns and least-privilege GRANTs
14. Managing users: ALTER USER, password expiry and history, account locking, SHOW GRANTS and REVOKE
15. New in MySQL 8, roles: CREATE ROLE, granting roles, default and mandatory roles, activating roles
16. Authentication changes: caching_sha2_password default, mysql_native_password deprecation and client compatibility
17. Configuring security: TLS connections, validate_password component, secure_file_priv and bind-address
18. Learning SQL, querying data: SELECT, WHERE, JOINs, GROUP BY, HAVING and subqueries
19. Learning SQL, inserting and modifying data: INSERT, UPDATE, DELETE, transactions, autocommit and isolation levels
20. Learning SQL, designing databases: normalisation, primary and foreign keys, constraints and data type choices
21. Best practices for writing queries: sargable predicates, avoiding SELECT star, pagination and prepared statements
22. New querying features in MySQL 8: CTEs, window functions, JSON functions, LATERAL derived tables and CHECK constraints
23. Working with indexes: B-tree, composite, covering, invisible, descending and functional indexes
24. Performing basic troubleshooting: error log, SHOW PROCESSLIST, slow query log and connection errors
25. Using sysbench: preparing and running OLTP read and write benchmarks and reading the results

DAY 3 **Intermediate: Backups, binary logs, query plans and replication** New at this level

26. Upgrading an existing database to MySQL 8: upgrade checker in MySQL Shell, in-place versus logical upgrade, 8.0 to 8.4
27. The binary log: ROW, STATEMENT and MIXED formats, retention, binlog_expire_logs_seconds and mysqlbinlog
28. Performing backup and recovery: strategy, RPO and RTO, full and incremental schedules and restore testing
29. Logical backups: mysqldump options, MySQL Shell util.dumpInstance and util.loadDump
30. Physical backups: Percona XtraBackup, MySQL Enterprise Backup and the CLONE plugin
31. Point-in-time recovery: restoring a backup and replaying binary logs to a timestamp or GTID
32. Optimizing performance with query execution plans: EXPLAIN, FORMAT=TREE, EXPLAIN ANALYZE and optimizer hints
33. Managing big databases using partitioning: RANGE, LIST, HASH and KEY partitions, pruning and partition rotation
34. Setting up a replica (formerly slave): CHANGE REPLICATION SOURCE TO, START REPLICA and SHOW REPLICA STATUS
35. GTID replication: introduction, gtid_mode and enforce_gtid_consistency, migrating to GTID replication online
36. Command line monitoring: SHOW GLOBAL STATUS, performance_schema, sys schema views and mysqladmin
37. External monitoring systems: Percona Monitoring and Management, mysqld_exporter with Prometheus and Grafana
38. Routine maintenance: ANALYZE TABLE, OPTIMIZE TABLE, event scheduler jobs and data purging

PRACTICE

Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION **Install and configure MySQL 8.4**

Install MySQL 8.4 LTS from the official repository, secure it, size the buffer pool with SET PERSIST and explore the system schemas with MySQL Shell.

ESSENTIAL **Secure an application database**

Design a normalised schema, create roles and least-privilege users over TLS, load data, add the right indexes and benchmark the result with sysbench.

INTERMEDIATE **Backups, PITR and GTID replica**

Take logical and physical backups, recover a dropped table to the minute with binary logs, and build a monitored GTID replica of the primary.

HOW YOU CAN LEARN

Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

FORMAT	DURATION	WHAT YOU GET	FEE
Live & interactive (online)	Max 8-10 hours	Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month.	**INR 34,999**
1:1 live training (online)	Max 8-10 hours, one-to-one	The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace.	**INR 99,999**
Self-paced video	1-year LMS access	All four Mysql Administrator levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	3 days for this level	A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative).	**Quote on request**

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

20 years in industry	**200+** corporate trainings
10,000+ engineers mentored	**70+** organisations coached

REVIEWS

What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR MYSQL ADMINISTRATOR TRAINING

Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/mysql/

ENROL OR RESERVE A SEAT
Mysql Administrator Intermediate Training

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Next step after this level: Mysql Administrator Advanced Training - Run highly available MySQL with InnoDB Cluster and advanced replication, tune it under load, harden it and migrate between versions safely.