DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

MySQL Administrator Advance Training

Run large, highly available MySQL estates with partitioning, advanced replication, InnoDB Cluster and safely verified migrations.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	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 · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	50 topics · Foundation to Advanced
Hands-on labs	4 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-advance-administrator-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 operate MySQL

Install, configure, secure and troubleshoot MySQL 8 servers for application teams.

2

Protect and replicate data

Implement backups, point-in-time recovery and GTID-based replication with monitoring.

3

Scale and migrate safely

Design highly available MySQL with partitioning, InnoDB Cluster and verified migrations.

WHAT THE ADVANCED LEVEL ADDS

Partitioning, HA, advanced replication and migration

Hands-on: HA cluster and migration rehearsal. Build an InnoDB Cluster with MySQL Router, partition a large table, verify replica consistency and rehearse a zero-loss migration.

WHO SHOULD ATTEND

- Experienced MySQL Administrator practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot MySQL Administrator solutions.
- Teams making MySQL Administrator an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Back up and restore MySQL with point-in-time recovery, set up GTID replication and monitor and benchmark server performance.
- 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 ADVANCED

MySQL Administrator Advance Training agenda

50 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 architecture, installation, tools and SQL basics

Included from Foundation

1. Learning MySQL 8: the 8.0 and 8.4 LTS release tracks, innovation releases and editions
2. Getting to know the MySQL 8 architecture: connection layer, SQL layer, storage engines and InnoDB
3. Installation via package manager: MySQL APT and Yum repositories and the mysqld service
4. Installation via manual package: tarball install, mysqld --initialize and secure first start
5. Using tools to access the database: mysql client, MySQL Shell and MySQL Workbench
6. Getting to know your database: mysql, information_schema, performance_schema and sys schemas
7. MySQL usage basics: SHOW commands, USE, status variables and the error log location
8. Learning SQL: querying data with SELECT, WHERE, ORDER BY, JOIN and GROUP BY
9. Learning SQL: inserting and modifying data with INSERT, UPDATE, DELETE and transactions
10. Learning SQL: design databases with data types, primary and foreign keys and normalisation
11. Creating databases and users for applications: CREATE DATABASE, CREATE USER and GRANT

DAY 2 — Essential: Configuration, InnoDB, security and query skills

Included from Essential

12. Changing configuration parameters in my.cnf: option files, groups and precedence
13. Changing MySQL configuration parameters online: SET GLOBAL, SET PERSIST and mysqld-auto.cnf
14. Essential MySQL configuration parameters: innodb_buffer_pool_size, max_connections, logs and character sets
15. Accessing the data dictionary: the transactional data dictionary and INFORMATION_SCHEMA views
16. Essential InnoDB: buffer pool, redo and undo logs, doublewrite buffer, isolation levels and row locking
17. Managing users: account names, password policies, locking accounts and REVOKE
18. New in MySQL 8: roles, CREATE ROLE, default roles and mandatory roles
19. Authentication changes: caching_sha2_password default and mysql_native_password deprecation
20. Configuring security: validate_password component, TLS connections and removing insecure defaults
21. Learning best practices for writing queries: sargable predicates, avoiding SELECT * and batching
22. Working with indexes: composite, covering, invisible, descending and functional indexes
23. Using the new querying features in MySQL 8: CTEs, window functions, JSON functions and LATERAL
24. Performing basic troubleshooting: error log, slow query log, SHOW PROCESSLIST and lock waits

DAY 3 — Intermediate: Binary logs, backup, replication and monitoring

Included from Intermediate

25. The binary log: ROW, STATEMENT and MIXED formats, retention and reading events with mysqlbinlog
26. Performing backup and recovery of your database: strategy, RPO and RTO and restore testing
27. Logical backups: mysqldump and MySQL Shell dump and load utilities
28. Physical backups: Percona XtraBackup, MySQL Enterprise Backup and the clone plugin
29. Point in time recovery: replaying binary logs to a precise position or GTID
30. Setting up a replica (formerly replication slave): CHANGE REPLICATION SOURCE TO and START REPLICA

31. Introduction to GTID replication: GTID sets, auto-positioning and failover benefits
32. Migrating to GTID replication: the online gtid_mode change procedure
33. Optimizing performance with query execution plans: EXPLAIN, EXPLAIN ANALYZE and optimizer hints
34. Using sysbench: OLTP benchmarks before and after configuration changes
35. Command line monitoring: SHOW GLOBAL STATUS, mysqladmin, performance_schema and sys views
36. External monitoring systems: Prometheus mysqld_exporter, Grafana and Percona Monitoring and Management
37. Upgrading an existing database to MySQL 8: upgrade checker, in-place versus logical upgrades and 8.0 to 8.4

DAYS 4-5 **Advanced: Partitioning, HA, advanced replication and migration** — New at this level

38. Managing big databases using partitioning: RANGE, LIST, HASH and KEY partitioning and partition pruning
39. Switchovers: planned primary promotion, read_only handling and client redirection
40. Advanced replication: semi-synchronous, multi-source, parallel applier workers and delayed replicas
41. Checking replication consistency: pt-table-checksum and pt-table-sync
42. High availability: InnoDB Cluster with Group Replication, MySQL Router and InnoDB ClusterSet
43. Connection management at scale: ProxySQL or MySQL Router read and write splitting
44. Performance tuning at scale: redo log capacity, buffer pool instances, I/O settings and thread handling
45. Security hardening: keyring components, data-at-rest encryption, auditing and least-privilege administration
46. Migration consideration: version jumps, managed services such as Amazon RDS and Aurora and cutover plans
47. Replication consistency before migration: validating data on the target before cutover
48. Verifying query behavior before migration: pt-upgrade, query replay and plan comparison
49. Capacity planning: storage growth, connection limits and hardware sizing
50. Capstone: a highly available, monitored MySQL cluster with backups, PITR and a rehearsed migration

PRACTICE

Hands-on labs

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

FOUNDATION **Install MySQL and build a schema**
Install MySQL from the official repository, connect with MySQL Shell and Workbench and create an application schema, user and queries.

ESSENTIAL **Configure, secure and index MySQL**
Tune key server parameters, enforce TLS and roles-based access and speed up slow queries with the right indexes.

INTERMEDIATE **Backups, PITR and GTID replica**
Take logical and physical backups, recover a dropped table with point-in-time recovery and build a GTID-based replica with monitoring.

ADVANCED **HA cluster and migration rehearsal**
Build an InnoDB Cluster with MySQL Router, partition a large table, verify replica consistency and rehearse a zero-loss migration.

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)	5 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/

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