MAHENDER REDDY YASA

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PROFILE SUMMARY

Professional Summary

Seasoned **Senior MySQL Database Administrator** with ~5 years of hands-on experience in database administration, performance tuning, database migration, replication, high availability, disaster recovery, and database security. Expertise in optimizing and maintaining MySQL databases, migrating databases across various platforms, and implementing advanced monitoring systems to ensure high availability and optimal performance. Proven ability to handle high-pressure production environments while consistently delivering on performance and reliability objectives.

Core Competencies

- MySQL Server Administration (5.x to 8.x)
- Performance Tuning & Query Optimization
- Database Migration (Oracle, PostgreSQL, MS SQL to MySQL)
- Replication & Clustering (Master-Slave, Group Replication, Innodb Cluster)
- Backup & Disaster Recovery (Percona XtraBackup, MySQL Enterprise Backup)
- Database Partitioning & Sharding
- High Availability & Failover Configuration
- Monitoring & Automation (Percona-Toolkit, Grafana, Anemometer, Nagios, PMM)
- Cloud Database Administration (AWS RDS, Azure SQL Database)
- Shell Scripting (Bash, Python, SQL Scripts)
- Security & Auditing (Encryption, MariaDB Audit Plugin)
- Materialized Views (MVT) Design
- SQL Development (PL/SQL, T-SQL)
- Database Upgrades & Maintenance

Professional Experience
Senior MySQL Database Administrator

Edgerock Software Solutions Pvt. Ltd. — *Nov 2019 – Present*

- Configured and fine-tuned **MySQL InnoDB clusters** for high availability, scalability, and performance optimization.
- Implemented **MySQL partitioning strategies** to manage large tables and improve query performance, especially for tables exceeding 4 TB.
- Performed **MySQL query optimization** to enhance execution times for complex reporting queries involving multiple joins and aggregations.
- Automated **MySQL database maintenance tasks** like backups, restores, and index optimizations using **shell scripting**.
- Managed **MySQL replication (master-slave, master-master)** setups, ensuring data consistency and minimizing replication lag.
- Performed **MySQL upgrades** from version 5.7 to 8.x, ensuring a smooth transition with minimal downtime for production systems.
- Conducted **MySQL performance tuning** to optimize memory, buffer pools, and CPU utilization for improved throughput.

- Utilized **MySQL Workbench** and **command-line tools** for efficient database management, schema design, and query analysis.
- Implemented **MySQL GTID-based replication** to improve replication management and simplify failover scenarios.
- Developed **ETL processes** using MySQL **stored procedures** for efficient data extraction and loading between databases.
- Integrated **MySQL with AWS RDS** and **EC2** instances, managing database deployments, backups, and scaling in cloud environments.
- Monitored and analyzed **MySQL slow queries** and **deadlock issues**, resolving performance bottlenecks and improving application responsiveness.
- Configured **MySQL user roles and permissions**, ensuring security and compliance with organizational policies.
- Applied **data compression** techniques to MySQL tables, optimizing storage and reducing costs on AWS infrastructure.
- Automated **MySQL failover** and health checks using shell scripts, increasing the system's uptime and reducing manual interventions.
- Set up **MySQL ProxySQL** for load balancing across read replicas, optimizing read-heavy workloads and ensuring high availability.
- Developed **shell scripts** to automate **MySQL database health checks**, log rotation, and disk space monitoring, improving system stability.
- Troubleshot and resolved **MySQL lock contention** and concurrency issues, ensuring smooth database operations during high-traffic periods.
- Managed **MySQL data migrations** from on-premise to AWS, using **DMS** and **native MySQL tools** for seamless transition with zero data loss.
- Configured **AWS services (S3, RDS, EC2)** for MySQL database backups, scaling, and disaster recovery, ensuring data durability and high availability.
- Designed and deployed **MySQL database architectures** in AWS using **CloudFormation** and **Terraform** for automated and scalable infrastructure.
- Tuned **MySQL configurations** (InnoDB buffer pools, thread concurrency, I/O settings) to maximize performance for large transactional workloads.
- Implemented **data replication** and synchronization across heterogeneous database environments (MySQL, Oracle) using **Oracle GoldenGate**.
- Configured and maintained **Nagios monitoring** for MySQL clusters, ensuring proactive detection of performance issues and minimizing downtime.
- Performed **MySQL index cleanup** and schema optimization, reducing query execution time and improving overall database performance.

Education

B.com from Albedo Business School of Mangement, in 2017

Intermediate from Geejanjali Junior college, Bhongir in 2015

SSC from ZPH School from Mudugumpally, Nalgonda in 2012

Personal Profile

- **Address**: Hyderabad, Telangana
- **Sex**: Male
- **Nationality**: Indian
- **Location**: Hyderabad

Declaration

I hereby declare that the above-mentioned information is true to the best of my knowledge.

Place**: Hyderabad**

Date: **Name   : Mahender Reddy Yasa**