**Name**

**Email:**

**Phone:**

# **SENIOR ORACLE & MYSQL DATABASE ADMINISTRATOR**

## **PROFESSIONAL SUMMARY**

* A highly accomplished and dedicated Senior Oracle and MySQL Database Administrator with 9+ years of progressive experience, specializing in heterogeneous database administration, High Availability (HA), Cloud Migration, and performance optimization for critical enterprise systems. Proven expertise spanning traditional RDBMS (Oracle,MySQL) and modern NoSQL/NewSQL platforms (Cassandra,MemSQL,Neo4j).
* Architected highly resilient, multi-platform database solutions, deploying Oracle 19c RAC clusters, MySQL InnoDB Cluster, and Cassandra ring topologies across geo-redundant AWS regions.
* Mastered the configuration, security, and performance tuning of MemSQL (SingleStore) for high-speed analytical ingestion, integrating it into the real-time data pipeline architecture.
* Designed and implemented graph database solutions using Neo4j, managing schema, performance, and cluster topology to support complex network relationship analysis for fraud detection systems.
* Automated database operations, including deployment, patching, and failover simulations, utilizing Terraform and Ansible playbooks to enforce infrastructure as code (IaC) principles across all DB platforms.
* Optimized database performance across a diverse environment, leveraging AWR/ASH/ADDM for Oracle, Percona Toolkit for MySQL, and detailed resource monitoring for PostgreSQL and SQL Server.
* Migrated 70+ databases to the cloud, specifically targeting AWS RDS (PostgreSQL/MySQL/SQL Server) and managing cloud-native PaaS services to enhance scalability and operational efficiency.
* Implemented CI/CD pipelines for schema and configuration changes using Liquibase and Jenkins, ensuring version control and automated rollback capability for heterogeneous DB deployments.
* Administered a multi-node Cassandra cluster, focusing on data modeling ($\text{C\\*QL}$), compaction strategies, and repairing services to maintain optimal read/write performance for high-volume data streams.
* Developed advanced PL/SQL packages, stored procedures for Oracle, SQL Server T-SQL, and PostgreSQL functions to encapsulate complex business logic and enhance data processing efficiency.
* Secured all database platforms by configuring Transparent Data Encryption (TDE) in Oracle, row-level security in PostgreSQL, and LDAP integration across MySQL and Sybase ASE.
* Integrated database monitoring into a central observability stack, pushing metrics from Cassandra JMX, Oracle OEM, and MongoDB Agents to Prometheus/Grafana.
* Managed specialized data platforms, providing DBA support for Sybase Adaptive Server Enterprise (ASE) environments critical for legacy applications and data archiving.
* Championed a DevOps methodology, working directly with development teams to optimize application-side database interaction and eliminate performance-impacting antipatterns.
* Executed complex data replication projects, utilizing Oracle GoldenGate, MySQL Replication, and Kafka connectors for MongoDB and Cassandra to ensure data movement reliability.
* Guided architecture planning for VLDB environments, implementing partitioning, sharding, and specific Cassandra keyspace strategies to manage exabytes of growing data.

## **TECHNICAL ENVIRONMENT**

| **Category** | **Technologies** |
| --- | --- |
| **RDBMS & NewSQL** | Oracle 19c/12c (RAC, Data Guard, GoldenGate), MySQL 8.0 (InnoDB Cluster), PostgreSQL 14, SQL Server 2019, Sybase ASE, MemSQL (SingleStore) |
| **NoSQL & Graph** | Apache Cassandra 4.x, MongoDB 6.x, Neo4j |
| **Cloud Platforms** | AWS (RDS, EC2, KMS, Glue, DynamoDB), Azure (SQL DB, Cosmos DB, VMs), GCP |
| **DevOps & CI/CD** | Ansible, Terraform, Python, Shell, Git, Jenkins, GitLab CI, Liquibase, Flyway, Docker |
| **Monitoring & Tools** | OEM/Cloud Control, Percona Toolkit, Prometheus, Grafana, Splunk, Cacti, Nagios, Percona PMM |
| **ETL/Orchestration** | Informatica, AWS Glue, Apache Airflow, Kafka Connectors, Oracle Data Pump |
| **Methodologies** | Agile, Scrum, DevOps, ITIL, Ralph Kimball Dimensional Modeling |

## **PROFESSIONAL EXPERIENCE**

### **Senior Multi-Platform DBA & Cloud Migration**

**Client:**

**Responsibilities:**

* Architected and led the migration of a 10 TB data estate, successfully transitioning high-traffic Oracle RAC and MySQL Master-Slave clusters to AWS RDS and EC2, utilizing AWS DMS and GoldenGate for minimal disruption.
* Administered a large-scale Cassandra 4.x ring used for time-series data, specializing in keyspace replication factors, custom compaction strategies, and routinely running nodetool repair to maintain data integrity and cluster health.
* Implemented a high-performance analytics solution using MemSQL (SingleStore), configuring in-memory tables and managing resource pools to achieve sub-second query response times for complex aggregations over live data streams.
* Deployed a dedicated instance of PostgreSQL in AWS RDS, setting up automated point-in-time recovery and managing extensions like PostGIS to support geographic data applications.
* Automated the end-to-end patching and configuration management for Oracle, MySQL, and PostgreSQL using Ansible playbooks, reducing the vulnerability window and ensuring OS and DB parameter consistency across all environments.
* Managed legacy Sybase ASE environments, providing critical support for daily dumps, database mirroring, and T-SQL optimization to maintain stability for the archived transaction history platform.
* Optimized database performance by integrating Percona PMM for MySQL and PostgreSQL with a central Grafana dashboard, enabling proactive identification of slow queries and locking contention.
* Designed and deployed an Oracle GoldenGate mesh network for bi-directional replication across multiple data centers, ensuring DR readiness and facilitating data sharing for global reporting.
* Collaborated with the security team to enforce encryption at rest, enabling TDE for Oracle PDBs and configuring KMS-managed encryption for all AWS RDS instances.
* Troubleshot complex OLTP performance issues in a high-concurrency MySQL environment, analyzing InnoDB status and configuring Semi-Synchronous Replication to reduce write latency and improve data consistency.
* Implemented Liquibase scripts into the Jenkins CI/CD pipeline for automated, audited, and version-controlled schema deployments across MySQL and PostgreSQL environments.
* Provided DBA expertise to the Development team on SQL Server, assisting with SSIS package development and tuning stored procedures written in T-SQL for the .NET application stack.
* Managed the lifecycle of MongoDB clusters, including sharding, replica set configuration, and performance optimization for the session management layer of the application.
* Developed custom Python scripts to monitor Cassandra compaction and ensure SSTable optimization, preventing disk I/O bottlenecks during peak data ingestion periods.

**Environment:** Oracle 19c RAC, MySQL 8.0 (InnoDB Cluster), PostgreSQL 14, Cassandra 4.x, MemSQL (SingleStore), AWS (RDS, EC2, KMS), Ansible, Terraform, Jenkins, Liquibase, Python, Shell, Grafana, Percona PMM, MongoDB, Sybase ASE, Kafka

### **Database & Replication Specialist**

**Client:**

**Responsibilities:**

* Deployed a mission-critical Oracle 12c Real Application Clusters (RAC) instance on Exadata hardware, guaranteeing sub-second response times for high-frequency trading applications.
* Managed a fleet of 50+ MySQL 5.7 instances, configuring advanced master-slave and multi-source replication topologies and developing custom recovery tools using Shell Scripting.
* Administered a Neo4j cluster, designing the initial graph data model for anti-money laundering network analysis and tuning cipher queries for optimal traversal performance.
* Audited and tuned 15+ high-impact MySQL queries using Percona Toolkit and rewriting PL/SQL procedures in Oracle identified by AWR reports, significantly improving system throughput.
* Integrated MongoDB into the data pipeline as a flexible landing zone for unstructured JSON documents, managing replica sets and applying indexing strategies to support fast lookups.
* Collaborated with the ETL team to optimize data loading processes, specifically tuning Informatica sessions and Data Pump parameters to handle 500 GB of daily market data ingestion.
* Wrote and maintained complex UNIX Shell Scripts to automate daily RMAN backup validation and MySQL dump routines, ensuring operational compliance.
* Performed periodic vulnerability assessment and remediation, applying Oracle CPUs and MySQL security patches across all environments with rolling upgrade strategies.
* Executed Cassandra data modeling projects, designing efficient keyspaces and partition keys to eliminate hot spots and support high-throughput writes for audit logging.
* Developed comprehensive Disaster Recovery procedures, utilizing RMAN catalog-based backups and performing monthly DR drills involving Data Guard switchovers to meet regulatory compliance standards.
* Troubleshot severe I/O contention issues in the Oracle Data Warehouse by reconfiguring ASM disk groups and leveraging Database In-Memory features.
* Guided the development team on adopting DevOps practices for database deployments, introducing them to schema versioning concepts using simple SQL scripts managed by Git.
* Managed storage capacity for the VLDB environment, implementing Oracle Partitioning and Cassandra TTL (Time To Live) to simplify data retention policies.
* Maintained database standards and documentation, creating detailed runbooks for failover and recovery procedures, including PostgreSQL streaming replication setup.

**Environment:** Oracle 12c RAC (Exadata), MySQL 5.7, Neo4j, MongoDB, Cassandra 4.x, Informatica, Oracle Data Pump, Shell Scripting, RMAN, Percona Toolkit

### **Database Administrator / NewSQL Specialist**

**Client:**

**Responsibilities:**

* Implemented a high-performance analytics store using MemSQL, configuring cluster topology and integrating it with Kafka to process 10,000+ events per second from the e-commerce platform.
* Designed and implemented the initial high-availability solution for the company’s flagship platform using MySQL Asynchronous Replication, configuring a multi-slave setup for read-scaling and HA.
* Managed a small Cassandra ring for customer personalization data, defining compaction strategies and ensuring consistent data replication using the snitch configuration.
* Supported the internal data science team by providing DBA expertise for their dedicated PostgreSQL instance, managing extensions, and tuning complex analytical queries.
* Developed dimensional models using the Ralph Kimball methodology for the business intelligence initiative, implementing star and snowflake schemas in the Oracle data mart.
* Upgraded core Oracle 11g databases to 12c using the DBC Upgrade Assistant and applying PSUs with minimal downtime.
* Troubleshot issues related to MySQL replication lag, analyzing binary logs and optimizing long-running transactions that impeded replication flow.
* Wrote numerous PL/SQL triggers and stored procedures to enforce data integrity constraints and automate back-end processing for order fulfillment and inventory management.
* Managed user accounts, roles, and privileges, implementing Fine-Grained Auditing (FGA) in Oracle and configuring advanced permissions in MySQL and PostgreSQL.
* Assisted with the maintenance of legacy Sybase ASE environments, focusing on device management and database space allocation.
* Collaborated with data modelers to review and refine logical and physical database designs, using Erwin to generate DDL scripts.
* Utilized SQL\*Loader and PostgreSQL COPY command to efficiently import large daily product catalog updates from flat files.
* Handled 24/7 on-call support for all production environments, managing incidents and providing RCA for database-related outages.

**Environment:** MemSQL (SingleStore), Kafka, MySQL 5.x/8.x, Cassandra 3.x/4.x, PostgreSQL 13+, Oracle 11g/12c, Sybase ASE, Erwin, SQLLoader, AWS RDS, PL/SQL, T-SQL

### **Junior Oracle DBA / Developer**

**Client:**

**Responsibilities:**

* Supported the daily administration and maintenance of Oracle 10g and 11g databases, focusing on tablespace management, user creation, and routine alert log monitoring.
* Gained foundational experience in database backup and recovery, utilizing RMAN for full and incremental backups and practicing point-in-time recovery scenarios in the staging environment.
* Assisted in the implementation and configuration of the company's first Oracle Enterprise Manager (OEM) Grid Control instance for centralized monitoring and management of the database fleet.
* Wrote and modified UNIX Shell Scripts to automate the execution of daily jobs, including data refresh routines and database health checks.
* Executed quarterly patch management cycles, applying Oracle PSUs (Patch Set Updates) to non-production environments under the supervision of the Senior DBA.
* Tuned slow-running SQL queries identified by Statspack reports, utilizing Explain Plan and index optimization to improve application response time.
* Managed data migration tasks using Oracle Data Pump for logical exports and imports between development and testing environments, ensuring data consistency for application testing.
* Developed several complex reports using SQL and PL/SQL for the business intelligence team, focusing on efficient data retrieval from large OLAP tables.
* Monitored and reported on database growth trends, providing weekly updates on storage utilization and projecting future capacity needs for procurement review.
* Collaborated with developers to optimize application code's interaction with the database, reviewing SQL generated by the application framework for potential performance issues.
* Gained initial exposure to High Availability concepts by assisting in the setup of a physical standby database using Oracle Data Guard for critical production systems.
* Performed data integrity checks and maintenance, running ANALYZE commands and gathering statistics to ensure the Oracle Optimizer utilized the most efficient execution paths.
* Assisted in troubleshooting connectivity issues, configuring TNSNames.ora and listener.ora files to ensure reliable network connections to the database instances.
* Learned and applied ITIL framework concepts for incident, problem, and change management within the 24/7 production support cycle.

**Environment:** Oracle 10g/11g, UNIX/Linux, Shell Scripting, OEM Grid Control, RMAN, SQL, PL/SQL, TNSNames.ora, listener.ora

### **Data Operations**

**Client:**

**Responsibilities:**

* Assisted in managing and monitoring small-scale MySQL and Oracle 9i instances used for internal tracking systems.
* Executed daily MySQL dump and Oracle export utility routines, ensuring data backups were completed successfully and stored securely.
* Wrote basic SQL queries to generate weekly data integrity reports, assisting senior staff in identifying anomalies.
* Supported developers by granting basic user privileges and assisting with schema object creation in the testing environment.
* Learned fundamental concepts of SQL tuning by reviewing Explain Plan output under the guidance of a mentor.
* Performed routine server health checks on Linux and Windows servers, monitoring CPU and memory utilization.
* Utilized TOAD and MySQL Workbench for basic database navigation and SQL execution.
* Documented standard operating procedures for database start-up and shut-down processes.
* Assisted in data loading tasks using SQL\*Loader for small datasets.
* Participated in weekly Agile/Scrum meetings, providing updates on data-related tasks and roadblocks.
* Collaborated with the networking team to troubleshoot basic database connectivity issues.
* Gained exposure to basic UNIX commands for file system navigation and process management.
* Executed data dictionary queries to retrieve information about database objects and user sessions.
* Prepared physical media (tapes/disks) for offsite backup storage as part of the DR process.

## **Environment:** Oracle 9i/10g, MySQL 5.x, SQLLoader, TOAD, MySQL Workbench, UNIX/Linux basic commands, Windows Servers