

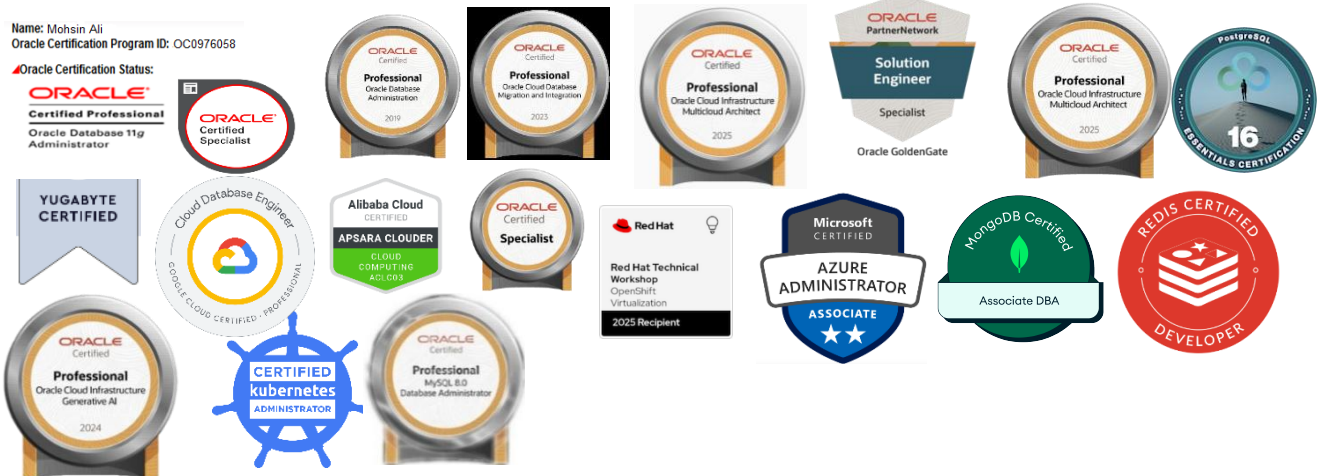


# Mohsin Ali

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## SENIOR DATABASE SPECIALIST | DATABASE ARCHITECT | TEAM LEADER

Seasoned Database Architect and Cloud Specialist with over 15 years of hands-on experience in architecting, optimizing, and securing mission-critical data platforms across **Oracle**, **PostgreSQL**, **MySQL**, **SQL Server**, and **MongoDB**. Proven leadership in delivering high-availability solutions such as **PostgreSQL EFM clusters**, **SQL Server Always-On**, **Microservices Goldengate**, and **MySQL InnoDB clusters** across **UNIX**, **Linux**, and **Windows** environments. Recognized for driving enterprise-scale **cloud migrations (OCI, AWS)**, **performance tuning**, and **disaster recovery** strategies. Adept at leading cross-functional teams, building automation frameworks, and designing resilient, multi-cloud data infrastructures for large-scale organizations, including Singtel, RTA, and CBUAE.

### Technical Certifications:

- Google Professional Cloud Database Engineer Certification
- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Fundamentals
- PostgreSQL v16 Certified Professional
- OCI 2025 Certified Multicloud Architect Professional
- OCI 2024 Generative AI Certified Professional
- Redis Certified Developer
- Oracle GoldenGate Solution Engineer Certified Implementation Specialist
- Oracle Cloud Infrastructure 2025 Certified Multicloud Architect Professional
- Oracle Certified Professional, MySQL 8.0 DBA
- 2025 Red Hat Technical Workshop - OpenShift Virtualization
- MongoDB Certified Associate DBA
- Oracle GoldenGate 12c Certified Implementation Specialist
- Google Cloud Fundamentals: Core Infrastructure
- OCI 2025 Certified Multicloud Architect Professional

## **Multi-Cloud Database Architect**

- 15+ years of experience architecting and migrating databases across OCI, AWS, and Azure, including Oracle, PostgreSQL, MySQL, MongoDB (ReplicaSet, sharding, Ops Manager), SQL Server (Always-On/Failover Clusters), Redis, MariaDB, and Apache Cassandra.
  - Specialized in HA/DR design using Oracle RAC, Data Guard, GoldenGate, PostgreSQL (Patroni/repmgr/pgBackRest), MySQL InnoDB Cluster, and Redis Sentinel.
  - Led modernization projects including Oracle 11g to 19c, AIX to P8 migrations, and full-stack OCI middleware implementations (WebLogic, SOA, OBIEE, OCM).
  - Automated operations using Shell, PL/SQL, Python, and tools like Ansible, Chef, Jenkins, improving patching, backups, and DR orchestration.
  - Built custom Oracle APEX and HTML/PHP dashboards for real-time health checks on Oracle and MySQL workloads.
  - Integrated SSO, LDAP, TLS, and HashiCorp Vault for secure middleware and microservices authentication across clustered WebLogic domains.
  - Delivered enterprise-grade ETL pipelines, Snowflake integrations, and secure data warehousing with OCI IAM and policy-driven access.
- Expert in Prometheus/Grafana, pgBackRest, barman, and deep SQL tuning across both on-prem and cloud database infrastructures.

## **EXPERIENCE**

### **iSOFT - ROAD AND TRANSPORT AUTHORITY, DUBAI**

Lead Technical Architect

03/2025 – Present

- Serving as Lead Technical Architect for RTA, leading secure, scalable database infrastructure design primarily on OCI, with limited AWS footprint for hybrid integrations.
- Driving three parallel heterogeneous projects:
  - Redis & MongoDB HA setup on Red Hat OpenShift for real-time data streaming;
  - Oracle ADF-based enterprise application using Oracle 19c, WebLogic, and OHS;
  - SASO project, where I lead the DBA team managing Oracle, Middleware, MySQL, and PostgreSQL stacks.
- Architected Oracle RAC & Data Guard solutions with automated DR failovers, achieving zero RPO/RTO for mission-critical systems.
- Delivered GoldenGate-based heterogeneous replication across regions to enable zero-downtime migrations and real-time sync between dissimilar platforms.
- Orchestrated full-stack replatforming to OCI for Oracle, PostgreSQL (Patroni/repmgr), and MySQL (InnoDB Cluster) using OCI DMS, GoldenGate, and shell-based automations.
- Administer WebLogic Clusters for ADF workloads, ensuring TLS, SSO, session clustering, and seamless integration with Oracle 19c databases.
- Built internal health dashboards using PHP/LAMP to visualize Oracle & MySQL backup status, replication lag, and active sessions in real time.
- Implemented CI/CD pipelines, Ansible-based patch automation, and Vault-based secret management across multi-DB environments.

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- Configured and secured MongoDB ReplicaSets and Redis Sentinel clusters on OpenShift with full RBAC, TLS, and container-native HA.
- Integrated AI-driven observability using Prometheus, ELK, and Grafana, reducing MTTR through proactive alerting and self-healing logic.
- Developing **agentic AI-driven automation agents** for **self-healing**, **real-time diagnostics**, and **dynamic scaling** of infrastructure.
- Providing end-to-end **technical leadership** across **modernization**, **DR planning**, and **DevSecOps** practices.

## SINGAPORE TELECOMMUNICATION, SINGAPORE

Sr. Specialist DBA

10/2024 – 03/2025

- **Served as Cloud Architect and Migration Lead**, overseeing hybrid cloud database strategy and architecture across Oracle Exadata Cloud@Customer (EXACC), AWS, and on-prem workloads, ensuring seamless integration, security, and cost-efficiency.
- **Led enterprise-wide migration initiatives** from IBM Power9 (P9) to Oracle EXACC, coordinating stakeholder communication, migration sequencing, and testing, while leveraging Oracle Data Guard, GoldenGate, and RMAN for near-zero downtime transitions.
- **Designed and enforced multi-layer HA strategies**, deploying PostgreSQL clusters using EFM, Patroni, and pgpool-II to support automated failover and fault tolerance for critical business systems.
- **Architected and managed SQL Server Always-On availability groups**, including proactive patching and rolling upgrades using ClusterSet topology, with performance tuning via Query Store, SQL Profiler, and custom index optimization.
- Orchestrated enterprise-wide architectural blueprints integrating Oracle, MSSQL, and MongoDB (ReplicaSet, sharding, Ops Manager), for a telecom billing & CRM platform across AWS and Azure, with secure LDAP-based SSO and encrypted API gateways.
- Designed and deployed custom middleware using WebLogic and Spring Boot, supporting over 2 million subscribers while maintaining <500ms response time under peak loads.
- Enabled full CI/CD with GitLab, Ansible, and custom Python-based deployment scripts, improving deployment frequency by 40%.
- Implemented advanced MongoDB sharded clusters, utilizing Ops Manager and Atlas for performance balancing, replication health checks, and geographic data distribution.
- Engineered MySQL InnoDB clusters with Group Replication and MySQL Shell, achieving zero-downtime patching and efficient failover through automation scripts and integrated health probes.
- Automated patching, monitoring, and performance tuning operations across heterogeneous DB platforms using Ansible playbooks, Jenkins pipelines, and centralized monitoring with Splunk, Nagios, and Zabbix.



## **GBS-SAUDI, Riyadh, KSA**

Sr. DBA & OCI Administrator

03/2024 – 10/2024

- Led the **migration and modernization** of Oracle Middleware workloads from on-premises to **Oracle Cloud Infrastructure (OCI)**, optimizing for scalability, security, and cloud-native operations.
- **Implemented enterprise-grade data governance frameworks**, establishing standards for data ownership, classification, access control, and compliance with internal and regulatory policies.
- Developed and enforced **data quality controls, lineage tracking**, and metadata strategies to improve discoverability and ensure consistency across cross-functional data ecosystems.
- **Engineered dynamic PL/SQL procedures**, triggers, and automation routines to streamline backend processing, reduce manual overhead, and enhance database performance.
- Migrated and replatformed the **Nextcloud-based custom document management system** to **Oracle Content Management (OCM)** on OCI SaaS, enhancing access control, content lifecycle, and multi-region availability.
- Applied **automation principles** using **Ansible** and **Jenkins**, enabling zero-touch infrastructure provisioning and streamlined CI/CD pipelines for database deployments and config management.
- Designed and maintained **high-reliability environments**, ensuring continuous availability, performance optimization, and hardened security configurations.
- Built and supported **Chef-based automation for Oracle WebLogic environments**, creating scalable and repeatable deployment templates and managing lifecycle operations across development and production tiers.

## **Central Bank of UAE, Abu Dhabi**

Senior Analyst – Database Administration

04/2022 – 03/2024

- Led the design, implementation, and support of data warehousing strategies, ensuring accuracy and maintenance.
- Managed the budget for database vendor relationships and software maintenance, tracking software acquisitions.
- Architected and implemented HA/DR for Oracle, PostgreSQL (Patroni, repmgr), and MySQL (InnoDBCluster), ensuring zero RPO/RTO on ExaCC.
- Led end-to-end provisioning, patching, backup, and disaster recovery on Oracle Exadata Cloud@Customer (ExaCC).
- Migrated and managed OBIEE, Oracle Flexcube, and SOA Suite from On-Prem to OCI ExaCC with enhanced integration and compliance.
- Automated database tasks using ExaCC-native tools and shell scripting to streamline operations and reduce manual intervention.
- Designed GoldenGate-based replication for heterogeneous Oracle ↔ MySQL setups with near-zero downtime.
- Administered and secured MongoDB ReplicaSets with RBAC, TLS, and performance optimization.
- Managed EBS R12.2 environments, including cloning, patching, concurrent manager tuning, and DR readiness on OCI.
- Defined enterprise-wide database governance, licensing, and long-term architecture roadmap aligned with CBUAE policy.



## **Kuwait Food Company, Americana Group, Sharjah**

Oracle, MySQL & OCI Administrator

11/2019 – 04/2022

### Key activities:

- Collaborated with cross-functional teams to develop a comprehensive migration strategy and project plan.
- Configured Oracle Fusion Apps environment to align with the business processes and requirements.
- Implemented data migration strategies, ensuring data integrity, consistency, and security.
- Led end-to-end migration from on-prem customized Oracle applications to Oracle Fusion Apps, ensuring 99.9% data accuracy and minimal downtime.
- Delivered GoldenGate-based heterogeneous replication for zero-downtime migrations between Big Endian (AIX/Solaris) and Little Endian (Linux/KVM) environments.
- Sound hands-on experience with Oracle Solaris administration, Sun StorEdge storage management, Solaris Volume Manager, and file system configuration in ERP environments.
- Built secure ETL pipelines across Oracle, MySQL (InnoDB Cluster), PostgreSQL (repmgr, Patroni), and SQL Server (Always-On/Failover Clusters), supporting seamless cross-platform data flow.
- Orchestrated patching and rolling upgrades of Oracle RAC, MySQL, and PostgreSQL clusters with zero downtime using automation and cluster-aware strategies.
- Administered Oracle SuperCluster M7 and Exadata systems, including firmware patching, storage rebalancing, and performance tuning under HA/DR frameworks.
- Deployed and managed Oracle WebLogic, SOA Suite, and WebCenter on OCI and on-prem with Chef-based automation and TLS/SSO integrations.
- Installed and maintained Oracle EBS R12.1.3 RAC, performed UAT/DEV clones, and tuned SQL workloads using OEM and SQL baselines.
- Configured and tested Oracle Data Guard with Broker for automated DR drills, switchover/failover, and production readiness.
- Integrated Fusion Middleware stack (SOA, OBIEE, OIM) with clustered infrastructure, AD/LDAP, and ERP systems like Hyperion and PeopleSoft.



## **Al Hilal Bank, Abu Dhabi**

Database Consultant

12/2018 – 11/2019

### Key activities:

- Led full-cycle data migration to Oracle Fusion SCM/HCM, building ETL pipelines with strict validation for secure and accurate legacy data transformation.
- Deployed and customized Temenos T24 on hybrid cloud using AKS, Terraform, and Helm; managed ISB installs, hotfixes, and CI/CD pipelines.
- Delivered architecture strategy for performance tuning, DR readiness, and secure integrations using LDAP/SSO, TLS, and ESB frameworks.
- Managed 24x7 banking workloads on Oracle RAC (11g-12c/18c), EBS R12.2.8, WebLogic, and core apps across AIX, Linux, and Windows platforms.
- Upgraded Oracle RAC clusters, consolidated DBs to IBM Power8, configured ASM replication, and automated DR/clone refresh (ASM↔Non-ASM).
- Built Shell/SQL-based health check dashboards in HTML for real-time monitoring of Oracle and MySQL DB performance, backups, and alerts.
- Administered and tuned MySQL (5.5-8.0) and SQL Server 2012 with automated backup, failover clustering, and alerting across 120+ production nodes.
- Secured and optimized Oracle iRecruitment in DMZ with WebLogic clustering, reverse proxy, SSL, and external web tier architecture.
- Provided end-to-end leadership in multi-platform database operations, ensuring audit compliance, zero-downtime patching, and SLA adherence.

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al hilal bank





## **Ideal Soft Emirates LLC, Dubai, UAE**

Sr. FMW and Database Administrator

04/2016 – 11/2018

- Managed 24x7 Oracle (11gR2/12cR1 RAC, Data Guard) and MySQL production environments, ensuring HA, DR, and SLA-driven performance.
- Automated Oracle Data Guard switchovers/failovers and backup routines using Shell scripts for seamless operational continuity.
- Installed, patched, and upgraded Oracle DBs and WebLogic domains with minimal downtime; administered Grid Infrastructure and ODI workflows.
- Deployed and secured WebLogic and Oracle HTTP Server (OHS) with SSL/TLS certificates, reverse proxy, and load-balanced configurations.
- Led certificate lifecycle management across WebLogic and OHS, automating installation and renewal using scripted pipelines.
- Integrated SSO via WebGate across diverse OS platforms, aligning authentication with corporate identity and access controls.
- Implemented robust backup policies with validation and archival to tape, safeguarding historical data assets.
- Drove improvements in IT infrastructure services, offering architectural oversight and optimization.

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3/2015 – 3/2016

## **Lamprell Energy Ltd, Sharjah, UAE**

Database Administrator

- Administered Oracle EBS R12 (6-node PCP) with RAC 11g backend and supported full-stack environments across prod, test, and dev.
- Upgraded EBS from 12.1.1 to 12.2.3 and converted single-instance DB to RAC using rconfig with minimal downtime.
- Managed Oracle Database Appliance (ODA) patching, tuning, and configuration to ensure optimal performance and HA.
- Applied Oracle and custom patches, ran impact analysis, and used OCM for proactive patching and compliance tracking
- Tuned SQL using TKPROF, SQLT, SQL baselines/profiles, and enabled tracing for slow EBS pages and concurrent requests.
- Delivered Oracle Data Guard HA/DR setups with tested SOPs for <5-minute switchover/failover across business-critical systems.
- Provided MySQL administrative support (backup, recovery, tuning) for side systems integrated with the Oracle stack.
- Collaborated with Oracle Support to resolve bugs and performance issues, while ensuring SLA-bound uptime and resilience.



## **Shaukat Khanum Memorial Cancer Hospital, Lahore, Pakistan**

Database Administrator

11/2012 – 3/2015

- Administered Oracle Databases, MySQL, and PostgreSQL on Windows environments across production and remote hospital branches.
- Installed, configured, and upgraded Oracle DBs, WebLogic, and Oracle Forms & Reports; ensured 24x7 database uptime and availability.
- Implemented GoldenGate bidirectional replication and Oracle Data Guard with automated switchover/failover scripting.
- Managed backup policies with tape archival, capacity planning, and proactive growth strategies.
- Maintained security policies, user roles, and database hardening across all environments.



- Deployed and configured Oracle Grid Control 11g for centralized monitoring and alerts.  
Provided critical on-call support for key healthcare applications, ensuring data integrity, uptime, and compliance.

9/2011 – 10/2012

### **Central Directorate National Savings, Islamabad, Pakistan**

Deputy Database Administrator

- Administered Oracle 8i-11g databases with Data Guard, GoldenGate, and materialized views for regional replication and reporting.
- Implemented and monitored RMAN backups, standby sync, and disaster recovery readiness on Red Hat Linux.
- Automated daily operations using Shell scripting for cron jobs, recovery, and listener/agent monitoring.
- Installed and configured Oracle Standby and Tomcat 5 for application deployment.
- Performed performance tuning, resource forecasting, and capacity planning across production/standby sites.
- Collected schema statistics, wrote ad-hoc SQL queries, and optimized reporting workloads.
- Ensured 24x7 availability, security, and SLA compliance for mission-critical public sector systems.



10/2009 – 9/2011

### **Soft Business Systems, Peshawar, Pakistan**

Database Administrator

- Administered Oracle 8i, 9i, and 10g databases with RAC, Data Guard, and OEM/Grid Control across Linux-based environments.
- Designed and implemented DR architecture and data center redundancy with standby databases and high availability planning.
- Developed and deployed Oracle Forms & Reports 6i for internal applications on Oracle Application Server.
- Automated daily operations using Shell scripting for cron jobs, backups, recovery tasks, and listener/agent monitoring.
- Performed RMAN backups, Data Pump exports/imports, and scripted database recovery routines.
- Tuned performance through stats collection, SQL optimization, and managed storage and user access.
- Used tools like TOAD, SQL Loader, and OEM for database monitoring, migration, and operational support.

## **PROJECTS**

- Implementation of Oracle SOA Suite and Oracle Service Bus (OSB) in a large-scale enterprise environment, ensuring optimal performance and reliability.
- Successfully migrated critical data from legacy systems into Oracle Fusion SCM and HCM modules.
- Successfully installed and configured Hyperion applications, such as Financial Management (HFM) and Planning, ensuring scalability and adherence to best practices.
- Configure SQL Server 2008 2 node Failover Cluster on Windows 2008 R2 cluster servers.
- Configure Oracle Transparent Gateway and Heterogeneous Services to enable data loading and transformation between SQL Server 2008 and Oracle 11g Release 2.
- Oracle Enterprise Manager 11g upgrade to OEM Cloud Control 12c.
- Oracle GoldenGate 11g and 12c replicated environments using Oracle 11g as source and Oracle 12c as target databases.

## **EDUCATION**

University of Engineering and Technology, Peshawar, Pakistan  
**Bachelor of Science, Major in Computer Science.**  
Received Degree Equivalency certificate from MOE, UAE.

2009

2022

## REFERENCES

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1. Daniel Liu (Singtel)  
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2. Muhammad Asfaq (Adnoc)  
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3. Bilal Tahir (Australia)  
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