

RAMESH LAKSHMINARAYANA

Senior Data Architect | Oracle DBA | SQL/PLSQL Expert | ETL & Data Modeling | Performance Engineering

203-973-7695 • L_ramesh@hotmail.com

LinkedIn: www.linkedin.com/in/ramesh-lakshminarayan-3213b411

SUMMARY

PMP-certified **Senior Data Architect & Oracle Database Engineer** with 20+ years of experience designing enterprise-grade data architectures, high-volume Oracle pipelines, historical backfills, and curated semantic models across regulated domains including **financial services, healthcare, and global operations**. Expert in **T-SQL, PL/SQL, SSIS, SSRS, SQL Server performance tuning, Oracle optimization, ETL/ELT design, historical backfills, and multi-team data delivery**. Known for **excellent communication, strong organizational abilities, team collaboration, adaptability, and problem-solving/analytical thinking** in complex engineering environments. Proven ability to translate ambiguous business requirements into **robust data models, optimized schemas, curated datasets, and production-ready database solutions** that improve stability, speed, auditability, and downstream consumption.

CORE COMPETENCIES

Database Architecture & Modeling

- Conceptual/logical/physical modeling (Erwin, PowerDesigner)
- Oracle semantic layer design, curated datasets, lineage & traceability
- Identifier normalization, cross-reference mapping, schema governance

Oracle Engineering & Performance

- Advanced SQL, PL/SQL packages, procedures, XMLTABLE, XMLTYPE, XQuery
- Query plan analysis, indexing strategy, partitioning, statistics management
- Materialized views, high-volume migration tuning, AWR/OEM diagnostics

ETL/ELT & Data Pipelines

- Stored procedures, DBT, DLT, Airflow, Snowpipe, Streams, Tasks
- Incremental loads, delta processing, multi-year historical backfills
- File-based extracts, reconciliation frameworks, validation logic

Database Administration

- Oracle 10g/11g, SQL Server, Data Guard, Logical Data Guard
- Backup/recovery, DR testing, SQL baselines, statistics copy automation
- Production troubleshooting, root-cause analysis, performance regression checks

Professional Skills

- Excellent communication
- Strong organizational abilities
- Team collaboration
- Adaptability
- Problem-solving & analytical thinking

Other environmental skills

- Continuous Integration
- GIT/GITLAB
- Automation(Control-M,Autosys,Appworx,Airflow)
- Change Control Management(ServiceNow)
- Release management/Delivery Management
- Maintain Coding Standards, Perform CodeReviews
- Agile, Predictive,Adaptive project management tracked using Jira

PROFESSIONAL EXPERIENCE

IBM / Medtronic — Senior Oracle Data Engineer / Data Architect

June 2021 – Present | Minnesota, MN

Oracle Data Architecture & Engineering

- Designed complex PL/SQL packages and transformation logic to curate SAP transactional data into Oracle semantic layers (Inventory, Cycle Count, Adjustments, ETA, SCM, GSR, SPM).
- Engineered Oracle tables, indexes, partitions, and materialized views optimized for high-volume migration and downstream reporting.
- Built advanced XML ingestion pipelines using XMLTABLE, XMLTYPE, XQuery, and DBMS_XMLSTORE to convert hierarchical XML into relational structures with robust error handling.
- Demonstrated **excellent communication** by collaborating with SAP analysts, business teams, and downstream engineering groups to translate technical fields into curated Oracle attributes.
- Applied **strong organizational abilities** to manage multi-year historical backfills, incremental loads, and parallel development artifacts.
- Used **problem-solving and analytical thinking** to resolve complex data inconsistencies across SAP → Oracle → SQL Server → Snowflake.
- Showed **adaptability** by supporting rapid changes in SAP structures, evolving business rules, and shifting migration timelines.
- Enabled **team collaboration** by producing mapping sheets, lineage diagrams, reconciliation reports, and supporting QA/integration teams.

Cloud Migration & Integration

- Migrated curated Oracle datasets into Snowflake using Snowpipe, Streams, Tasks, and DBT-based ELT pipelines.
- Automated incremental refresh and synchronization across SAP–Oracle–Snowflake.

Extract-Driven Delivery & Downstream Support

- Produced file-based extracts, placeholder datasets, and interim artifacts enabling parallel development across multiple engineering teams.
- Supported QA, integration testing, defect resolution, and production readiness with detailed mapping sheets, lineage diagrams, and reconciliation reports.

Environment: Oracle 10/11g, PL/SQL, SAP, SQL Server, Snowflake, DBT, Airflow, Shell Scripting, XML/JSON, Erwin, PowerDesigner

Health Fitness Corporation (Trustmark Insurance) — Oracle Data Engineer / Developer **July 2016 – Feb 2021 | Lake County, IL**

- Designed and optimized **SQL Server schemas, indexing strategies, and partitioning** to improve ETL and reporting performance.
- Built **SSIS packages** for nightly and near-real-time ingestion pipelines, integrating SQL Server, Oracle, and external sources.
- Developed **SSRS dashboards** for compliance, operational reporting, and executive visibility.
- Tuned **T-SQL queries** on multi-billion-row tables, reducing report runtimes from minutes to seconds.
- Implemented **SQL Server Always On** for HA/DR and improved system resilience.
- Automated SQL Server ETL workflows using SSIS, SQL Agent, PowerShell, and Shell scripts.
- Performed real-time SQL monitoring and bottleneck detection using OEM + SQL Server DMVs.
- Demonstrated **excellent communication** by mentoring developers on SQL best practices and performance tuning.
- Applied **problem-solving and analytical thinking** to resolve critical production defects and optimize slow-running queries.

- Used **strong organizational abilities** to introduce SQL coding standards, performance baselines, and regression checks.
- Collaborated with reporting teams and application teams, showing strong **team collaboration** and **adaptability**.
- Enhanced Oracle schemas, indexing, partitioning, and PL/SQL logic.
- Migrated legacy systems into redesigned Oracle warehouse structures.

Environment: Oracle 10/11g, SQL Server, SSIS, Linux/HP-UX, Python, Cognos, OEM, Erwin

SWIFT — DBA

Oct 2014 – July 2016 | Manassas, VA

Enterprise Oracle DBA Responsibilities (Expanded)

- Implemented and validated **Oracle Data Guard (Physical & Logical)** configurations to ensure high availability, disaster recovery readiness, and zero-data-loss failover capabilities across mission-critical financial systems.
- Designed and executed **DR test cycles**, including switchover, failover, and role transition scenarios, ensuring operational continuity and compliance with SWIFT's global reliability standards.
- Automated **SQL Baselines, statistics copy, and performance regression testing** using Shell scripts to maintain consistent query performance across patching, upgrades, and environment refreshes.
- Performed **root-cause analysis** for production incidents involving performance degradation, locking/blocking, deadlocks, slow-running PL/SQL, and unexpected plan changes.
- Tuned high-volume PL/SQL packages and SQL queries using AWR, ASH, ADDM, SQL Monitor, and execution plan analysis to reduce CPU, I/O, and runtime across critical financial workloads.
- Managed **backup/recovery strategies**, RMAN configurations, and validation of restore scenarios to ensure recoverability and compliance with SWIFT's operational standards.
- Supported **environment refreshes**, schema deployments, and controlled releases across DEV, QA, UAT, and Production environments.
- Collaborated with application teams, infrastructure teams, and global operations groups, demonstrating **excellent communication, team collaboration, and strong organizational abilities** in a high-security, high-availability environment.
- Applied **problem-solving and analytical thinking** to diagnose complex issues involving optimizer behavior, statistics drift, partition pruning failures, and RAC node performance variations.
- Ensured **auditability and compliance** by maintaining strict change control, documenting DBA procedures, and validating all production changes through controlled migration cycles.
- Provided **24x7 production support** for critical SWIFT systems, including incident response, performance troubleshooting, and emergency patch validation.

Environment: Oracle 10g/11g, Data Guard, Logical Data Guard, RMAN, AWR/ASH/ADDM, SQL Baselines, Shell Scripting, RAC fundamentals, OEM, PL/SQL, SQL tuning

Pearson Education - Data Architect

Jan 2012 – Oct 2014 | New York, NY

- Designed and developed **T-SQL stored procedures, views, and functions** supporting high-volume transactional and reporting systems.
- Built and optimized **SSIS ETL pipelines** for ingestion, cleansing, transformation, and loading of structured/unstructured datasets.
- Developed **SSRS reports** for operational dashboards, compliance reporting, and executive analytics.

- Implemented **SQL Server Always On** for high availability and disaster recovery across QA/UAT/Production environments.
- Tuned SQL Server workloads using execution plans, indexing strategies, partitioning, and statistics optimization.
- Managed SQL Server data refreshes across QA, UAT, and development environments using automated SSIS + SQL Agent workflows.
- Demonstrated **excellent communication** by coordinating with product teams, reporting teams, and DBAs to align schema changes with business needs.
- Applied **problem-solving and analytical thinking** to resolve performance bottlenecks and data inconsistencies.
- Used **strong organizational abilities** to manage multiple parallel ETL releases and schema enhancements.
- Collaborated closely with cross-functional teams, showing strong **team collaboration** and **adaptability** in fast-changing environments.
- Supported Oracle + MongoDB hybrid systems.
- Designed SOLR search schemas and centralized logging pipelines.

AIG Investments — Data Architect (Oracle)

July 2010 – Jan 2012 | Jersey City, NJ

- Modeled Oracle data warehouse structures for GAAP, STAT, TAX, and regulatory reporting.
- Designed logical and physical Oracle data models using Erwin.
- Tuned complex PL/SQL code and optimized large-scale ETL workloads using analytical thinking.

UBS Investment Bank — Sr. Oracle Developer

2009 – 2010 | Stamford, CT

- Developed PL/SQL packages for trade compliance and commission engines.
- Tuned high-volume queries for sub-second response times.

Additional Oracle-Focused Experience (2003–2009)

GE Capital, Alliance Bernstein, XL Reinsurance, Freelif International, Lincoln Financial, Sprint

- Oracle data modeling
- PL/SQL development
- ETL/ELT design
- Historical data migration
- Performance tuning
- Extract-driven pipelines
- Erwin modeling

EDUCATION

Pondicherry University – India Post Graduate Diploma in Computer Applications

Dr. B.R. Ambedkar Open University – India Bachelor of Science (Math, Physics, Chemistry)

CERTIFICATIONS

Project Management Professional (PMP) — 2026–2029