Gokulraj G

SENIOR SOFTWARE ENGINEER AT HCLTECH

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| **Professional Summary**  Experienced Oracle SQL/PLSQL Developer with over 3.5 years in the healthcare domain, specializing in clinical studies, patient data transformation, performance tuning and automation. Proficient in building robust PLSQL cursors, packages, procedures, triggers and views. Additionally, familiar with cloud-based data engineering tools including Azure Data Factory, Azure Data Lake Gen2, Azure Databricks and Apache Spark. |
| **Skills & Tools**   * **Database:** SQL (CTE, Window Functions, Optimization, Index), Oracle PLSQL (Packages, Functions, Triggers, Cursors, Views, Procedures), SPARK SQL * **Programming Languages:** Python, Shell Scripting, PySpark * **Cloud Services** – Azure (Azure Data Factory, Azure Data Lake, Azure Databricks). * **Tools** – GitHub, SQL Developer, Toad, Visual Studio, WinSCP, Putty, PyCharm |
| **Professional Experience**  **HCL Tech**  Merck & Co, pharmaceutical  Clinical Data Layer – ENCODING, SDTM (Data Engineer) Nov 2024 – Present   * Built ingestion pipelines in Azure Data Factory with Databricks Notebooks to move and transform clinical data from VEEVA to Encoding Catalog. * Built an event-driven ADF pipeline that was triggered upon file arrival in ADLS. The pipeline utilized Data Flows to perform transformations and loaded the processed data into a reporting container for visualization and business reporting. * Possess strong working knowledge of Databricks jobs, dbutils, and performance optimization techniques including partitioning, Adaptive Query Execution (AQE), and bucketing, ensuring scalable and efficient data pipelines. * Hands on experience in implementing data modelling practices, including SCD Types and Change Data Capture (CDC) using Delta Table Merge API across all the Delta tables to maintain accurate and current clinical datasets. * Proficient in working with various file formats such as JSON, CSV and parquet with additional knowledge of Spark Structured Streaming for real time data processing.   Clinical Data Repository (PLSQL Developer) Dec 2021 – Oct 2024   * Led end-to-end development lifecycle including requirement gathering, PLSQL development, Unit Testing and Production deployment. * Designed, developed and optimized PL/SQL procedures, functions, packages and triggers to support healthcare data processing and patient data transformation. * Achieved 70% performance improvement by refactoring a complex dynamic SQL query with over 100 left joins into a single PIVOT based join. * Implemented a custom job scheduling workflow using DBMS\_SCHEDULER and Oracle triggers by inserting job details into a temporary table and polling it with a procedure executed every 30 seconds. * Built a dynamic masking package to generate Oracle views based on masking configuration, ensuring data privacy and compliance with healthcare standards. * Designed and implemented a CI/CD pipeline for database deployment using Liquibase and GitHub Actions, automating version control, validation and rollout of PLSQL changes across environments. * Created Linux shell script to automate database monitoring task such as locked accounts, session tracking and detection of long running jobs. Implemented email alerts to notify team members. * Collaborated with business teams to implement SDTM (Study Data Tabulation Model) transformations from raw patient data for clinical analytics. * Demonstrated strong expertise in Oracle SQL functions by writing complex queries and optimizing joins, with a solid understanding of window functions to enhance data analysis efficiency. * Designed and implemented multiple business rules using PL/SQL procedures, functions, and packages to meet diverse business requirements effectively. * Developed and automated scheduling processes for Oracle jobs using SQLPLUS and crontab in a Linux environment, improving job management efficiency. * Successfully migrated from DBMS\_JOB to DBMS\_SCHEDULER in Oracle 19c, ensuring compliance with updated database standards post-deprecation. * Possess deep expertise in clinical trial management, including knowledge of relevant domains and adherence to regulatory guidelines. * Proficient in debugging PL/SQL components, including procedures, functions, packages, and types, ensuring high-quality code delivery. * Automated monitoring processes using Linux shell scripts, enhancing oversight of application jobs, database sessions, and validating database account statuses to ensure operational reliability. * Played a pivotal role in setting up and managing clinical trials, ensuring compliance with industry regulatory standards. |
| **Awards and recognitions:**   * Start Innovator * Top Performer Award   . |
| **Education & Certifications**   * BE(EEE) – Government College of Engineering, Bodinayakkanur - 76 %. * Higher Secondary Certificate (HSC) – GHSS, Pavakkal - 87 %. * Microsoft certified DP-203 Azure Data Engineer |
| **Profiles**   * LeetCode - <https://leetcode.com/u/gokulsakthi/> * HackerRank - <https://www.hackerrank.com/profile/gpgokul67> |