GALLA SOWJANYA

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Database Developer

Senior Oracle SQL & PL/SQL Developer with 4+ years of experience in designing, optimizing, and maintaining scalable enterprise database systems. Specialized in PL/SQL development, query performance tuning, data modeling, CI/CD automation, and large-scale healthcare information systems. Proven ability to improve application performance, automate workflows, and deliver high-quality database solutions in fast-paced environments.

WORK EXPERIENCE

Shivam Medisoft Solutions Pvt. Ltd   09/2021 - 07/2025
Oracle SQL & PL/SQL Developer

- Developed and optimized complex **Oracle SQL & PL/SQL** procedures, packages, functions, triggers, and views to support the Hospital Management Information System (HMIS).
- Performed **query optimization, execution plan analysis, and performance tuning**, improving system response times for high-volume clinical and administrative workflows.
- Led full **SDLC** processes including requirement analysis, design, development, testing, deployment, and post-production support.
- Built and automated **CI/CD pipelines** for Oracle-based applications, enabling streamlined deployment of PL/SQL objects across DEV → TEST → PROD environments.
- Designed and managed high-availability **Oracle databases**, ensuring robust data security, validation, and compliance with healthcare data standards.
- Developed advanced **Power BI dashboards** using strong **data modeling, DAX measures, calculated columns, relationships**, and custom visualizations to support hospital operations and decision-making.
- Created high-performance **Tableau dashboards**, optimizing extract strategies, filters, parameters, and workbook design to reduce refresh time and enhance report performance.
- Developed reporting pipelines using iReport to support hospital departmental dashboards.
- Ensured system compliance, data security, and integrity while supporting enterprise-level availability requirements.
- Mentored junior developers, conducted code reviews, and enforced PL/SQL development best practices.
- Built complex reporting solutions across **Power BI, Tableau, and iReport**, delivering insights for appointments, billing trends, patient records, capacity planning, and department-level analytics.
- Key clients handled: Breach Candy Hospital Trust, Sahyadri Super Specialty Hospital, Asian Heart Institute, Holy Family Hospital, Zoi Hospital.
- Collaborated with cross-functional teams (clinical, finance, HR, procurement) to translate business requirements into efficient database and reporting solutions.

EDUCATION

B.Tech – Electronics & Communication Engineering
JNTU Kakinada

PROJECTS

Hospital Management Information System (HMIS)
- Developed a complete **HMIS platform** using Oracle SQL & PL/SQL, integrating patient records, scheduling, billing, procurement, HR, and reporting modules into a unified system.

- Optimized database performance with **query tuning, execution plan improvements, and efficient PL/SQL procedures**, enhancing reporting and transactional speed.
- Implemented **secure data workflows**, including multi-factor authentication, encryption, and strong validation mechanisms for sensitive patient information.
- Designed end-to-end reporting pipelines using **Oracle 11g/12c and iReport** for clinical, financial, and administrative analytics.
- Built advanced **Power BI dashboards** with strong **data modeling, DAX measures, relationships**, and optimized visuals for operational insights.
- Created **high-performance Tableau dashboards** using extracts, parameters, filters, and workbook tuning to deliver fast, interactive hospital analytics.

SKILLS

Databases: Oracle 11g/12c, SQL Server

Programming & Query Languages: Linux, PL/SQL, SQL, T-SQL, Unix

Data Visualization & Reporting: Calculated Columns), DAX, Extracts, iReport, LOD Expressions, Measures, Oracle SQL Developer, Performance Optimization), Power BI (Data Modeling, Tableau (Dashboards

Techniques: Database Management, Data Modeling, ETL Logic, Performance Tuning, Query Optimization, Workflow Automation

CI/CD: Automated Unit Testing, Build Automation, Deployment Pipelines, Version Control for Oracle Objects

Database Objects & Backend Development: Functions, Materialized Views, Packages, Stored Procedures, Triggers, Views

Tools & Platforms: Oracle SQL Developer, Power BI Desktop, Tableau Desktop