

Ram Reddy

🏢 PostgreSQLDBA&Greenplum DBA · Federal Clients

📍 Vienna, VA

Professional summary

Database Engineer, Administrator and Architect with 22 years of experience in various roles such as Has active IRS MBI and public trust clearance. Expertise and Interests include Administration, Database Design, Performance Analysis, and Production Support for Large VLDB and Complex Databases. Knowledgeable in All Major Releases of PostgreSQL Running on All Supported Operating System Versions.

#readytowork

📄 Authorized to work in the US for any employer

Experience

PostgreSQLDBA&Greenplum DBA · Federal Clients

March 2016 – Present · 10 yr 5 mo

Environment: Greenplum (PL/PgSQL, MPP), Linux, PostgreSQL 9.x/10.x/11.x and PERL/BASH Scripts

Responsibilities:

- Prepared Greenplum deployment and rollback scripts by consolidating hundreds of changes (PCRs)
- Upgraded multiple PostgreSQL databases from 9.6 to 10.2/11.6.
- Was involved in multiple Datacenter migrations as well as to the cloud (AWS) migration.
- Excellent in Administration and Performance Tuning of PostgreSQL and Greenplum databases.
- Good in RedHat Linux and other flavors of Unix like Solaris, AIX, HP-UX etc
- Have setup multiple Replication for PostgreSQL databases spanning multiple datacenters.
- Good in Securing the PostgreSQL/Greenplum databases and rolling out CIS controls for PostgreSQL
- Consolidated and merged code and structural changes made in O&M and new development streams for RRP. Compared thousands of catalog objects across schemas and releases to baseline images
- Analyzed query execution plans to identify performance bottlenecks and alleviate high resource utilization by batch processes in MPP architecture DCAs. Defined indexes, improved data distribution and recommended optimal querying techniques to developers
- Built high-speed, parallel data movement programs using BASH and PERL to move data between Greenplum Data Computing Appliances to achieve stringent performance SLAs
- Built and maintained RRP's Parallel Data Extraction programs to move large volumes of data between DCAs and to external consumers and downstream systems
- Built OLAP data marts for rule-based fraud and non-compliance detection for Business tax returns
- Extract and validate monthly RRP Selection data to be sent to TIGTA
- Built and maintained PL/PgSQL functions to transform data for various reporting data marts
- Participated in filing year change design reviews and identified potential pitfalls during design phase to ensure efficient application development

Senior Oracle/PostgreSQL Consultant · FEMA

March 2014 – January 2016 · 1 yr 10 mo

Clients: DHS/FEMA

Environment: Compusearch PRISM 7.2, Oracle 12C, PL/SQL, TOAD 12.6, PostgreSQL 8.4/9.2, Oracle AIM implementation Methodology

Responsibilities:

- Provided a migration strategy solution and lead the conversion from legacy systems (AIMS) to FEMA PRISM instance
- Architected a data model for large data warehouse and built ETL programs for data load and extraction
- Upgraded PostgreSQL from 8.4 to 9.2.
- Setup Asynchronous Replication for the PostgreSQL databases.
- Tuned and helped run the PostgreSQL databases in an optimal way by using HugePages in Linux.
- Handled Backups and Recovery in a test DR scenario for PostgreSQL databases.
- Installed a module pg_stat_statements to track down slow operations.
- Designed and developed interfaces to publish to and consume data from JMS Queue
- Wrote PL/SQL, packages, and stored procedures to upload historical data through open interface APIs, Data Loader, SQL Loader etc.
- Technical lead for the Design and development of conversion process from legacy system to FEMA PRISM instance

Oracle Database Manager / Team Lead • Federal Aviation Administration (FAA) - KITT

February 2002 – February 2014 • 12 yr

Environment: Contract information tracking tool, Oracle financials R12, Oracle 11G, PL/SQL, XML, JAVA, TOAD 12.1, UNIX, OAF

Responsibilities:

- Senior database technical lead of contracts for the design and development of contract information and tracking tool(KITT) for web-based applications with integration to Oracle Financials
- Provided technical direction to our customers in matters of implementing technology within their business processes
- Wrote and modified several database triggers for KIIT enhancements
- Developed an interface to extract contract and invoice data from Oracle Financials system into KITT
- Designed and developed Oracle PL/SQL batch and real time processes for loading data from external contracts systems using SQL Loader and External tables
- Built PL/SQL packages, stand-alone procedures, and stand-alone functions and wrote complex SQL queries with sub-queries, analytical functions, and inline views
- Performance tune and optimize SQLs using explain tables, TKPROF utility, by setting database parameters, by using optimizer hints and using Analyze to compute statistics on tables.
- Designed and created entity relationship diagrams (ERD) for Oracle based applications and interfaces
- Developed BASH scripts to perform a nightly refresh of data
- Used SQL LOADER to upload the flat file procurement and financial information into the database tables
- Installed Oracle 11g Database client and maintaining database like backups, users, table space management, import etc.

Project Name: DELPHI Project Implementation (Feb 2002 to Nov 2004 & Oct 2006 to Jan 2009)

Environment: Oracle 10G, PL/SQL, XML, JAVA, TOAD 10.x, Oracle Financials 11i, DISCOVERER 10G

- Designed and developed very complex and critical LDR interface to transfer Labor cost data from a legacy system to Oracle Payables. The interface was designed to handle extremely large volume of data and has extensive validation to ensure error free interface to Oracle Payables
- Optimized Oracle procedures with dynamic SQL and implemented complex Oracle views
- Designed a web reporting solution for FAA. Led a team of developers to implement the design, development of custom web reports using Oracle technology like Report 6i and UNIX, HTML and Java script. Oracle application module includes AP, GL, PO and AR
- Wrote shell scripts for FTP the data file and look-up for executing the SQL*Loader
- Implemented PL/SQL to perform application security and batch job scheduling
- Generated dynamic web-reports using java, JavaScript, HTML, DHTML using PL/SQL Web Cartridge with HTP and HTF
- Generated various reports for customers using Oracle 10g Reports and on PL/SQL with output format in Excel/Pdf/Html
- Developed complex PL/SQL programs to convert procurement data from a Contract Maintenance System into an Oracle 11i Purchasing Application. Designed, Developed and tested PL/SQL packages, procedures used to interface data from a legacy Acquire database into an Oracle (11i) Federal Financials Purchasing application

Technical Database Lead • Federal Aviation Administration (FAA) - KITT

June 2005 – October 2006 • 1 yr 4 mo

Washington, DC

Environment: PL/SQL, ORACLE Applications 11i and Oracle 9i

- Technical lead for interfaces and customizations required to support the Oracle Federal Financial Applications including GL, PO, AP, FA and AR
- Analyzed performance of database objects and suggesting DBA for Indexes, schema gathering, partitioning, explain Plan, TK PROF
- Used Oracle's Advanced Queuing mechanism to send messages to clients and interact with other systems (UNIX and App server)
- Used SQL* Loader to upload the bulk data from formatted text files into Oracle tables

Oracle Consultant • Social Security Administration (SSA)

October 2000 – June 2005 • 4 yr 8 mo

Environment: PL/SQL, ORACLE Applications 11i and Oracle 8i and 9i, UNIX, TOAD, HTMLDB

- Generated SQL and PL/SQL scripts to install create and drop Trading Exchange Connection database objects such as tables, views, primary keys, indexes, constraints, packages, sequences, grants and synonyms
- Implemented performance enhancements for packages, forms, and reports using dbms_output, Forms debugger, explain plan and TKPROF
- Developed conversion program with PL/SQL Packages, Procedures and Functions for validating the invoices and payment information from the legacy system and imported into Oracle Application using the Payables Open Interface Import program and populated the base tables
- Worked on customizing GL forms, AP and GL custom reports like AP Trial balance as well as developing new forms reports per business requirements and needs

Education

Related education comes from the candidate's resume and profile.



Master's Degree in Industrial Management

IIT Kanpur

Skills

Related skills come from the candidate's resume and profile.

PL/SQL

Operating Systems

SQL

PostgreSQL

Greenplum