Revathi Vishnupriya

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**PROFESSIONAL SUMMARY**

* Have 9+ years of **Data Warehouse Engineering** experience with expertise in **ETL** and **AWS/Azure Cloud**.
* Worked extensively on ETL Tool **Informatica Power Center**.
* Experience in **ETL development** and **ETL Testing**
* Experience in **Data warehousing / Business Intelligence** modeling and development.
* Strong experience working with **Enterprise Data Warehouse (EDW)** Frameworks and direct experience with BI or DW projects over the full development lifecycle.
* Experience in working with job scheduler tools like **BMC Control M**, **Redwood Cronacle** and **Tidal**.
* Strong Understanding of data warehousing techniques. Expertise in **SQL**.
* Strong data analytics and **performance tuning** skills.
* Strong knowledge of **Relational Database Management System (RDBMS)** and writing SQL Queries on **Oracle, SQL Server and MySQL, Teradata PostgreSQL** databases and **Apache Kafka** for retrieving backend data and streaming data to validate data integrity.
* Experience in creating **Tables, Views, Stored Procedures, and Indexes**, troubleshooting database issues and **Performance Tuning of Stored Procedures and Database**.
* Good experience in loading data in both full and incremental ways and according to **Slowly Changing Dimensions, SCD Type 1, SCD Type 2 and SCD type 3.**
* Good experience in migration of data solutions from other databases to Cloud.
* Worked on reporting tools like **AWS Quicksight and Power BI**, AWS storage, Compute, Database services like **S3, EC2, EMR, RDS, Aurora, Redshift, Athena and Quicksight**.
* Experience on Azure data integration services like **Azure Data Factory**.
* Experience in creating data pipelines in Azure Data Factory.
* Experience working on **Event driven Architecture**.
* Experience in working with Azure components like **Azure Data Factory**, **ADLS**, **and Azure SQL DB.**
* Ability to convert business requirements into a technical specification.
* Applied data cleansing/data scrubbing techniques to ensure consistency amongst data sets.
* Build Data migration processes using **SQL Server**, **PostgreSQL**, **Oracle** and **Teradata** as databases and **Informatica Power Center** as ETL.
* **Experience in developing stored procedures, functions, triggers, cursors and joins, SQL Queries with T-SQL,** PL/SQL **and working with** TOAD, SQL Developer, SQL\*PLUS.
* **Extensive knowledge in Business Intelligence and** Data Warehousing **Concepts with emphasis** on ETL and System Development Life Cycle (SDLC).
* Loaded data to **STAR schema** for use in organization wide OLAP and analytics.
* Good knowledge experience with dimensional modeling using **Star Schema and Snowflake** models.
* Very good understanding of **Unix Shell/Windows Batch file** Scripting
* Very good understanding on **Python** Scripting.
* Proficient in Data Modeling Techniques using **Star** **Schema**, **Snowflake** **Schema**, Fact and Dimension tables, **RDBMS**, Physical and Logical data modeling for Data Warehouse and Data Mart using **ER Studio**

**TECHNICAL SKILLS**

* INTEGRATION TOOLS: Informatica Power Center,IICS, AWS , Azure Data Factory
* RDBMS: MySQL, Teradata, Oracle, Redshift, PostgreSQL, Kafka, ADLS
* DATABASE TECHNOLOGIES: MS SQL Server 2000/2005, OLAP and OLTP, Oracle 9i/10g, MS Access 2000, SQL Assistant, Oracle PL/SQL,TOAD, MYSQL,SQL Analyzer, Azure SQL
* SCHEDULING TOOLS: Control-M, Redwood Cronacle, Tidal
* CLOUD: AWS, Azure
* REPORTING TOOLS: AWS Quicksight, Power BI , Tableau
* SCRIPTING LANGUAGES: SQL,PL/SQL, UNIX, Python, PySpark
* CLOUD INFRASTRUCTURE: AWS Cloud Formation, Terraform
* CI/CD : Jenkins
* ATLASIAN TOOLS: JIRA, Confluence

**PROFESSIONAL EXPERIENCE**

**Thoughtworks: Apr 2022 – Present**

**Role: Data warehouse, ETL and BI Engineer**

**Roles & Responsibilities:**

* Created **PostgreSQL** **RDS** and successfully migrated existing database to **RDS**.
* Developed **SQL stored procedures** to design and develop database.
* Developed **ETL** flows to migrate data.
* Developed Cloud Integration parameterized mapping templates for **SCD1,SCD2,CDC and Incremental** load processes
* Extensively used transformations like **Source Qualifier, Aggregator, Expression, Filter, Joiner, Lookup, Sorter, union, update strategy.**
* Developed various Taskflows with multiple mapping tasks and taskflows.
* Issues and Meta Data Management in the implementation of ETL methodology in Data Extraction, Transformation and Loading using Informatica.
* Expertise in design, develops, and implements data extraction, staging, transformation and loading ETL procedures to populate an **operational data store (ODS) and enterprise data warehouse (EDW) from** multiple data sources.
* Expertise in the concepts of building Fact Tables, Dimensional Tables, handling Slowly Changing Dimensions and usage of Surrogate Keys. Extensive experience in backup and recovery process of Informatica Repository.
* Expertise in Developing **Mappings and Mapplets/Transformations between Source and Target using Informatica Designer.**
* Wrote SQL queries to validate source data versus data in the data warehouse including identification of duplicate records.
* Experienced in writing test cases, test scripts, test plans and execution of test cases reporting and documenting the test results.
* Experienced in Data Mining, Data Validation, and documentation.
* Performed analysis on the data and developed scripts to retrieve Information Ready Data at **Quicksight** using Direct Query.
* Have written scripts in **SQL** to retrieve Information Ready Data.
* Used multiple join complex queries to prepare and clean data before reporting.
* Developed dashboards in Quicksight by pulling data from **PostgreSQL RDS** using Direct Query.
* Developed 42 reports in AWS which helped business with more efficient AI insights in cost effective way.
* Done cross account Dashboard migration in AWS.
* Worked on a project to load data from **SQL** to **ADLS** using Azure Data Factory.
* Developed pipelines to process data from Source to Destination using **Azure Data Factory**.
* Have created automated workflows using **Triggers**.
* Created ADF Pipelines to extract data from CRM using copy activity, transformed the data using Data Flow Activity and **Azure Databricks** Notebooks using Spark SQL, and copied the data to SFTP location for consumption.
* Scheduled both **Full Extract** and **Incremental Extract** using **ADF triggers**.
* Implemented this solution as re-usable solution with parameterization for activities, data sets and including the type of extraction. This tool can be used as an asset for any such type of requirement.
* Created **ADF Dataflow** activities for complex transformations.
* Created **Tables, Views, Stored Procedures, Functions and External Tables.**
* Created Azure Self-Integration runtime for connecting on-premises networks and databases.

**Environment:** Informatica, Windows 2000/Professional, AWS RDS, PostgreSQL, SQL Analyzer, AWS Quicksight, Azure Data Factory, ADLS, SQL DB

**Advertising Standards Council of India (ASCI) Aug 2021 – Feb 2022**

**Role: Data Warehouse and ETL Engineer**

**Roles & Responsibilities:**

* Created **Aurora RDS** and successfully migrated the existing Database to Aurora DB on AWS.
* Engineered the data by using SQL Stored Procedures and functions and loaded it using ETL pipelines.
* Worked with Business analysts and Application Developers in requirements gathering and designing the application Data model.
* Performed data analysis of source system and developed a data model in AWS Aurora for Application Development.
* Mapped the old **data model** with new design and incorporated the changes.
* Designed, reviewed and created primary objects such as views, indexes based on the **data models** and requirements.
* Ensure **data recovery**, maintenance and **data integrity** for database.
* Good knowledge in database links, worked on tables various types of views like **inline** **and** **materialized views** in different databases.
* Involved in creating **stored procedures**, **functions** and **triggers**.
* Prepared technical design/specifications for data Extraction, Transformation and Loading.
* Worked on **Informatica** Utilities Source Analyzer, Warehouse Designer, Mapping Designer, Mapplet Designer and Transformation Developer.
* Created mapping using various transformations like **Joiner, Filter, Aggregator, Lookup, Router, Sorter, Expression, Normalizer, Sequence Generator** and Update Strategy, data standardization, address validator etc.
* Implemented **SCD Type 1 and SCD Type 2** for loading data into data warehouse dimension tables.
* Implemented **error handling** for invalid and rejected rows by loading them into error tables.
* Implementing the Change Data Capture Process using **Informatica Power Exchange.**
* Analyzing the sources, transforming data, mapping the data and loading the data into targets using Informatica Power Center Designer.
* Used various transformations like Stored Procedure**, Connected and Unconnected lookups, Update Strategy, Filter transformation, Joiner transformations** to implement complex business logic.
* Used Informatica Workflow Manager to create workflows, database connections, sessions and batches to run the mappings.
* Used **Variables and Parameters** in the mappings to pass the values between mappings and sessions.
* Optimized long running **Stored Procedures** and queries for effective data retrieval.
* Monitored **performance** and optimized SQL queries for maximum efficiency.
* Worked closely with application developers and administrators to create and improve data flows between internal/external systems and the data warehouse.
* Provided hyper care support.
* Responsible for maintenance of Database.

**Environment:** Windows 2000/Professional, AWS Components, Aurora DB, Informatica 10.1, SQL Analyzer, ER Studio

**Spend Analytics Project: Oct 2020 – June 2021**

**Role: Data Warehouse and BI Engineer**

**Roles & Responsibilities:**

* Created technical solutions and design for Data Warehouse.
* Work with management to align solutions and develop data integration pipelines with business strategy and objectives.
* Developed a Data model as per the requirement.
* Designed solution in **AWS** by understanding user requirement.
* Performed analysis on the data and developed scripts to retrieve Information Ready Data on **AWS Athena** by using Direct Query method.
* Involved in **Python** Scripting for data load and engineering.
* Have written scripts in **SQL** to retrieve Information Ready Data.
* Used multiple joins and complex queries to prepare and clean data before reporting.
* Classified the data at granular level for checking on spend.
* Developed **Spend Analytics Dashboard** at enterprise level for indirect spend analysis.
* Developed reports to visually explore data and create an **interactive report** for the users.
* Specialized in transforming data into user-friendly visualization to give business users a complete view of their business.
* Prepared **Information Ready Data** Using direct query in **AWS Quicksight** to perform certain operations like **fetching data, merging queries, appending queries, remove columns, split columns and choosing the required columns** in the data.
* Developed **Customer 360 Dashboard** and provided AI business insights for Indirect Spend which resulted in a major reduction of spend on indirect goods.

**Environment:** Windows 2000/Professional, Informatica Power Center, AWS Components (Athena, S3, Quicksight, Comprehend), SQL Server, Informatica Power Center

**TCS Apr 2019 – Aug 2020**

**Role: ETL Developer, Data Engineer**

**Roles & Responsibilities:**

* Involved in migrating projects from **Oracle** to **Teradata**
* Responsible for successful completion of daily, weekly, and monthly report generating jobs.
* Responsible for performing Root cause analysis and fixes.
* Responsible for optimizing the ETL pipelines in **Informatica Power Center.**
* Worked with **Informatica power center Designer, Workflow Manager, Workflow Monitor and Repository Manager, Command line utilities such as pmcmd** etc.
* Dealt with **streaming data** from **Kafka** and loaded to **Teradata**.
* Developed and maintained ETL (Extract, Transformation and Loading) mappings to extract the data from multiple source systems like **Oracle, SQL server and Flat files** and loaded into **Oracle.**
* Developed Batch **data Processing** and **Near Real Time data processing** techniques.
* Developed **Informatica Workflows** and sessions associated with the mappings using Workflow Manager.
* Involved in the data analysis for source and target systems and good understanding of Enterprise Data Warehousing (**EDW**), staging tables, Dimensions, Facts and Star Schema, Snowflake Schema.
* Performed gap analysis and extensive testing for migrating the jobs to **BMC Control M** from **Tidal**.
* Generated queries using **SQL** to check for consistency of the data in the tables and to update the tables as per the Business requirements.
* Writing complex SQL queries to analyze source data and communicating data quality issues to the business
* Involved in **Performance Tuning** of mappings in Informatica.
* Good understanding of **source to target data mapping** and Business rules associated with the ETL processes.
* Involved in creating new table structures and modifying existing tables **and fit into the existing Data Model**.
* Extracted data from different databases like **Oracle and external source systems like flat files using ETL tool**.
* Involved in **debugging Informatica mappings,** testing of **Stored Procedures** and **Functions**, Performance and Unit testing of Informatica Sessions, Batches and Target Data.
* Developed Mapplets, Reusable Transformations, Source and Target definitions, mappings using Informatica.
* Responsible for reliability and support.
* Created ad hoc SQL Queries.
* Created backup and restore operations.
* Monitored strategies, processes and procedures to ensure data integrity, optimized and reduced data redundancy.
* Performed **Code Enhancements** as per Business Requirements.
* Optimized long running Stored Procedures and queries for effective data load.
* Optimized **SQL** queries for improved performance and availability.
* Extensively worked with Look up cache like **Shared** **Cache**, **Persistent** **Cache**, **Static** **Cache** and **Dynamic** **Cache** to improve the performance of the lookup transformations.
* Created new jobs and updated existing jobs in BMC Control M.
* Monitoring the jobs and rectifying the issues occur during production support.
* Migrated the existing jobs from **Tidal** to **Control-M**.
* Responsible for generating **weekly** and **monthly** **reports** and **customer 360** reports using Power BI.
* Involved in project for migrating SQL database to Azure.
* Using **Azure Data Factory**, have developed ETL Pipelines to copy and load data from SQL to ADLS.
* Researched and implemented various components like **pipeline, activity, mapping data flows, data sets, linked services, triggers and control flow**.
* Performed extensive debugging, data validation, data clean up and error handling mechanisms.

**Environment:** Windows 2000/Professional, Informatica 10.1, UNIX, BMC Control M, Teradata, Oracle, SQL Server, Azure Data Factory, ADLS, Tableau

**Sysco Foods Mar 2014 – Mar 2019**

**FTR Project: Sep 2017 – Mar 2019**

**Role: ETL Consultant**

**Roles & Responsibilities:**

* Developed **Informatica mappings** as per the requirement.
* Prepared **UTP** documents.
* Worked on creating **Data model**.
* Worked on **SQL stored procedures** and complex joins to design database.
* Prepared Hands-on document for all the objects related to the project.
* Prepared detailed design documents which contain job designs and functionality of each job
* Optimized SQL queries and tuned the mappings for better performance.
* Performed Unit testing at various level of **ETL**.
* Actively involved in team code reviews.
* Used **Parameter** for defining **mapping variables, workflow variables and relational connections**.
* Worked on different tasks in workflow like **sessions, event raise, event wait, decision, e-mail, worklet variable assignment, post-session, and pre-session commands.**
* Developed mapping parameters and variables to support **SQL** **override.**
* Used Type **1** **SCD** and Type **2 SCD** mappings to update Slowly Changing Dimension tables.
* Deployed the code across all environments using Deployment group.
* Created new jobs and updated existing jobs in **Redwood Cronacle**.
* Monitoring the jobs and rectifying the issues occur during production support (Redwood Cronacle).

**Environment:** Windows 2000/Professional, Informatica Power Center 9.6.1, UNIX, Redwood Cronacle

**BODS to Informatica Migration: Nov 2015 – Aug 2017**

**Role: ETL Consultant**

**Roles and Responsibilities:**

* Extracted data from SAP BW (BPC) to staging tables and to target tables.
* Developed Informatica mappings to load data from Source to staging and to Target tables.
* Designed and developed various **Informatica mappings** using **transformations** like **Source Qualifier, Expression, Aggregator, Normalizer, Lookup, Filter, Joiner, Sorter, Rank, Router, and Update Strategy.**
* Performed **SQL query** and Informatica **mapping** **optimization** and tuned the mappings for better **performance**.
* Used **pre and post session** assignment variables to pass variables from one session to another
* Performed **unit testing** in various levels of ETL.
* Actively participated in **Code reviews** and **deployments**.
* Deployed the code across all environments using Deployment group.
* Provide **documentation** (Data Mapping, Technical Specifications, Production Support, data dictionaries, test cases, etc.) for all projects.
* Fixed invalid mappings and troubleshoot technical problems.
* Assist in the **design** and **development** of **Data Warehouse**.
* Created new jobs and updated existing jobs in Redwood Cronacle.
* Monitoring the jobs and rectifying the issues occur during production support (Redwood Cronacle).

**Environment:** Windows 2000/Professional, BODS 4.2 (SAP Data Services), Informatica Power Center 9.6.1, Netezza, UNIX, SAP R/3, SAP BW, Redwood Cronacle

**1010 Data Integration: Mar 2014 – Nov 2015**

**Role: Jr. ETL Consultant**

**Roles and Responsibilities:**

* Analysis on different **source systems (STS, SUS, SAP)** data availability in the **1010data**.
* Monitor the jobs scheduled in the **Control-M** scheduling tool.
* Built Informatica one-to-one mappings from source systems to Netezza staging tables.
* Design and develop ETL Data Loading packages.
* Designed Source to Target mappings to load full and incremental data based on the requirement.
* Provide **documentation** (Data Mapping, Technical Specifications, Production Support, data dictionaries, test cases, etc.) for all projects.
* Assist in the design and development of Data Warehouse.
* Perform duties and responsibilities specific to department functions and activities.
* Provide Production Support of the Data Warehouse as well as the ETL.
* Adhere to ETL/Data Warehouse development Best Practices.
* Assist in the design and development of Informatica for Data Warehouse/Data Mart.
* Prepared **Table Load Request Forms** before processing the data to **1010data**.

**Environment:** Windows 2000/Professional, BODS 4.2 (SAP Data Services), Informatica Power Center 9.6.1, DB2, Netezza, UNIX, SAP R/3, SAP BW, BMC Control M

**EDUCATION**

Bachelor of Technology (Information Technology), JNTU Hyderabad 2014