**Nirmala Erusappan**

**Senior ETL / Informatica Developer/ Data Analyst**

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**Professional Summary:**

* Data analyst/ETL Informatica expert with around 8+ years of Total IT Experience in analysis, design, development, testing, deployment, and production support of Enterprise Data warehouse applications using Informatica across Healthcare, Manufacturing and Retail domains under all the phases of SDLC.
* 8+ years of vast experience in developing ETL interfaces using **Informatica 10.0, 9.x, 8.x** and **IDQ 8.6** for Enterprise Data warehouse and standalone data marts.
* Expertise in developing end-to-end integration solutions using DataStage and multiple databases like **ORACLE**, **DB2**, **Teradata**, **Netezza**, **MySQL**, **PostGreSQL** and **SQL Server**.
* Worked with Teradata utilities like **Fast Load and Multi Load and Tpump and Teradata Parallel transporter** and highly experienced in **Teradata SQL Programming**.
* Experience in **Teradata Parallel Transporter (TPT). Used full PDO on Teradata and worked with different Teradata load operators.**
* Superior **SQL** skills and ability to write and interpret complex SQL statements and also skillful in SQL optimization and ETL debugging and performance tuning
* Experience in developing of **on-line transactional processing** (**OLTP**), **operational data store** (**ODS**) and **decision support system** (**DSS**) (e.g., Data Warehouse) databases.
* Experienced in writing **SQL, PL/SQL programming, Stored Procedures, Package, Functions, Triggers, Views, Materialized Views.**
* Experience in Inmon and Kimball data warehouse design and implementation methodologies
* Strong familiarity with **master data** and **metadata management** and associated processes
* Hands-on knowledge of enterprise **repository tools**, **ata mapping** **tools**, **data profiling tools** and data and information system life cycle methodologies.
* 1+ year of experience in **AWS (Amazon Web Services)**, **S3 Bucket** and **Redshift (AWS Relational** **Database)**.
* 1+ year of experience in working with **Hive, Impala, HDFS, SparkSQL** etc.
* Experience with architecture experience implementing proper data structures for analytical reporting from an enterprise data warehouse.
* Implemented **Change Data Capture** (**CDC**) with Informatica Power Exchange.
* Used Informatica Power Exchange to access **VSAM files** also worked on **Flat files**, **nested** **JSON** and **XML** files
* Well versed with data quality features like **Analyst**, **IDQ** & transformation like **Key Generator,** **Standardizer**, **Case Converter**, **Match** **Consolidation** etc.
* Applied **Address transformation** for Address Validation and Standardization.
* Strong in implementation of **data profiling**, **documenting Data Quality metrics** like Accuracy, completeness, duplication, validity, consistency.
* Have good skills on understanding and development of **business rules** for its Standardization, Cleanse and Validation of data in various formats.
* Very strong knowledge of Informatica **Data Quality transformations** like Address validator, Parser, Labeler, Match, Exception, Association, Standardizer and other significant transformations.
* Extensively worked on Informatica Power center transformations as well like **Expression**, **Joiner**, **Sorter, Filter**, **and Router, and Normalizer, rank, Lookups, Stored procedure, Update strategy, Source Qualifier, Union, CDC** and other transformations as required.
* Proficient on Data Warehouse Concepts like **Dimension Tables**, **Fact** T**ables**, **Slowly Changing Dimensions** and **DataMart’s**
* Experience in **Extraction**, **Transformation** and **Loading** (ETL) data from various data sources into **Data Marts** and **Data Warehouse** using Informatica power center components (**Repository**
* **Manager**, **Designer**, **Workflow Manager**, **Workflow Monitor** and Informatica **Administration Console**).
* Strong Experience in developing **Sessions/Tasks, Worklets** and **Workflows** using Workflow Manager tools -**Task Developer**, **Workflow & Worklet Designer**.
* Experience in performance tuning of Informatica mappings and sessions to improve performance for the large volume projects.
* Experience in debugging mappings, identified bugs in existing mappings by analyzing the data flow and evaluating transformations.
* Experience in writing **UNIX shell scripts**, **SQL scripts** for development, automation of ETL process, error handling and auditing purposes.
* Well versed with waterfall and Agile methodologies in Software Development Life Cycle (SDLC)
* Strong Knowledge of BigData / **Hadoop Ecosystem** and Data modelling in Hadoop environment.
* Have got good problem-solving skills. Team player with excellent analytical, communication and multi-tasking skills.

**EDICATION:**

* Master’s in business administration, Bharathiyar University, India
* Bachelor of Science, Avinashilingam University, India

**TECHNICAL SKILLS:**

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| ETL | Informatica PowerCenter 10.0, 9.5.1, 9.0, 8.1.1, ,Power Exchange 10.0.1, 8.6,9.1 |
| Data Profiling Tools | Informatica IDQ 10.0, 9.5.1, 8.6.1 |
| ETL Scheduling Tools | Control M, ESP. |
| RDBMS | DB2, Oracle 11g/12c, Teradata 13/15, SQL Server 2008/2012, MySQL, PostgreSQL 9.2 |
| UNIX | UNIX, Shell scripting |
| Reporting Tools | Tableau 9, Cognos 9/10 |
| Defect Tracking Tools | Quality Center, Bugzilla |
| Operating Systems | Windows XP/2000/9x/NT, UNIX |
| Source Management | BitBucket, Visual SourceSafe |
| Programming Languages | C, C++, PL/SQL |
| Other Tools | Notepad++, Toad, SQL Navigator, Teradata SQL Assistant, Teradata view point, JIRA, Rally |

**Professional Experience:**

**UHG (Optum Insight), Minneapolis, MN August 2016 to Till Date**

**Role: ETL Informatica Developer / Data Analyst**

**Responsibilities:**

* Extensively Worked with Business Users to gather, verify and validate various business requirements.
* Identified various source systems, connectivity, tables to ensure data availability to start the ETL process.
* Worked as Data modeler and created **Data model** for warehouse and involved in **ODS** and **Datamart** data models.
* Worked as Data analyst to analyze the source systems data.
* Created **Design Documents** for source to target mappings. Developed mappings to send files daily to **AWS**.
* Used **UNIX scripting** to apply rules on the raw data within AWS.
* Created Complex mappings using **Unconnected** and **Connected** **Lookup**, **Aggregator** and **Router** transformations for populating target table in efficient manner.
* Created **stored procedures** to use oracle generated sequence number in mappings instead to using Informatica Sequence generator.
* Created complex Mappings and implemented Slowly Changing Dimensions like **Type 1, Type** **2 and Type 3** for data loads.
* Created complex Mappings to implement data cleansing on the source data.
* Used **Mapping Variables**, **Mapping Parameters** and **Session Parameter**s to increase the re-usability of the Mapping.
* Created source to target mappings, edit rules and validation, transformations, and business rules. Analyzed client requirements and designed the ETL Informatica mapping.
* **Scheduled** and Run Workflows in Workflow Manager and monitored sessions using Informatica Workflow Monitor.
* **Tuned** **performance** of Informatica session for large data files by increasing block size, data cache size, sequence buffer length and target based commit interval.
* **Validated** and **tested** the mappings using Informatica Debugger, Session Logs and Workflow Logs.
* Created detail **Unit test plans** and performed error checking and testing of the ETL procedures using SQL queries, filtering out the missing rows into flat files at the mapping level.
* Used **Ultra Edit** tool and **UNIX Commands** to create access and maintain the session parameter files, data files, scripts on the server.
* Used **CUCUMBER** automated test tool to automate the unit tests for Informatica ETL.
* Followed and automated the Acceptance Test Driven Development (**ATDD**) and Test Driven Development (**TDD**) for unit tests for Informatica ETL.
* Scheduled the ETLs using ESP scheduler.

**Environment:** Informatica Power Center 10, Power Exchange 10, Oracle 11g, Cognos 10.x, AWS, Redshift, DB2, Flat files, SQL, putty, UltraEdit-32, shell scripting, Toad, Quest Central, UNIX scripting, Windows NT

**Best Buy, Richfield, MN Sept 2014 to August 2016**

**Role: ETL Informatica developer / Data Analyst**

**Responsibilities:**

* Extensively Worked with Data Modeler, Data Analysts and Business Users to gather, verify and validate various **business requirements**.
* Identified various source systems, connectivity, tables to ensure data availability to start the ETL process.
* Created **Design Documents** for source to target mappings
* Created **Workflows**, **Tasks**, **database** connections, **FTP** connections using Workflow Manager.
* Extensively developed various Mappings using different Transformations like **Source** **Qualifier**, **Expression**, **Lookup (connected and unconnected)**, **Update** **Strategy**, **Aggregator, Filter**, **Router**, **Joiner** etc.,
* Used Workflow Manager for Creating, Validating, Testing and running the workflows, sessions and scheduling them to run at specified time.
* Created **pre-session** and **post-session** shell commands for performing various operations like sending an email to the business notifying them about any new dealer branches.
* Providing the Architecture/Domain knowledge to **Report developer** for the creation of Dashboards and Reports.
* Wote BTEQ, MLOAD and TPUMP scripts to load the data into Teradata tables.
* Performed Fine tuning of SQL overrides for performance enhancements and tuned Informatica mappings and sessions for optimum performance.
* Extensively worked with Look up Caches like **Shared Cache**, **Persistent Cache, Static Cache** and **Dynamic Cache** to improve the performance of the lookup transformations.
* Created Source definitions and Flat File Target definitions using the Informatica
* Used UNIX commands **(vi editor**) to perform the DB2 load operations.
* Created detail Unit test plans and performed error checking and testing of the ETL procedures using SQL queries, filtering out the missing rows into flat files at the mapping level.
* Scheduled the ETLs using **ESP** scheduler.

**Environment:** Informatica Power Center 8.6.1/8.1.1, Power Exchange 9.1,IDQ 9,Oracle 11g, Teradata 15, TOAD, Cognos 9, Tableau 9.2, UNIX, Autosys, SQL\*Loader, PowerCenter Mapping Architect for Visio, Sybase Power Designer, IBM DB2, Flat files, SQL, putty, UltraEdit-32, shell Programming, Toad, Quest Central

**The Travelers Companies, Inc., Bloomington IL June 2012 to August 2014**

**Role: ETL Informatica developer**

**Responsibilities:**

* Involved in the requirements definition and analysis in support of Data Warehousing efforts.
* Worked on ETL design and development, creation of the Informatica source to target mappings, sessions and workflows to implement the Business Logic.
* Used various **Transformations** like Joiner, Aggregate, Expression, Lookup, Filter, Union, Update Strategy, Stored Procedures, and Router etc. to implement complex logics while coding a Mapping.
* **Extracted data** from **Flat files, SQL Server** and **Oracle** andloaded them into **Teradata**.
* Involved in **Data Profiling** & **Data Analysis** on heterogeneous Database sources like **Oracle**, **flat files**.
* Extensively worked on **Informatica Data Quality (IDQ 8.6.1)** for data analysis, data cleansing, data validation, data profiling and matching/removing duplicate data.
* Designed and developed **Informatica DQ Jobs**, Mapplets using different transformation like Address validator, matching, consolidation, rules etc. for data loads and data cleansing.
* Preparation of **technical specification** for the development of Extraction, Transformation and Loading data into various stage tables.
* Used the **Integration service** in PowerCenter 8.6.1 to start multiple instances of the same workflow.
* Implemented **different Tasks** in workflows which included Session, Command, E-mail, Event-Wait etc.
* Created **Data Breakpoints** and **Error Breakpoints** for debugging the mappings using Debugger Wizard.
* **Scheduled** and **Run Workflows** in Workflow Manager and monitored sessions using Informatica Workflow Monitor.
* Validated and tested the mappings using Informatica Debugger, session logs and workflow logs.
* Worked on migrating existing PL/SQL packages, stored procedures, triggers and functions to Informatica Power Center.
* Transformed bulk amount of data from various sources to **Teradata** database by using **BTEQ, MLOAD and TPUMP scripts**.
* Transferred data using Teradata utilities like **SQL Assistant**, **Fast Export** and **Fast Load**.
* Involved in **Performance Tuning** of SQL Queries, Sources, Targets and sessions by identifying and rectifying performance bottlenecks.
* Worked on **Autosys Scheduler** to automate the Workflows.
* **Tested** all the mappings and sessions in **Development, UAT** environments and also migrated into Production environment after everything went successful.

**Environment:** Informatica PowerCenter 8.6.1, Power Exchange 8.6, Informatica Data Quality (IDQ 8.6.1), Informatica Data Quality (IDQ 8.6.1), SQL Server, Oracle 11g, PL/SQL, Flat files, MySQL, Teradata 13, WinSCP, Notepad++, Toad, Quest Central, UNIX scripting, Windows NT.

**Cummins Inc., Columbus, IN Jan 2010 to May 2012**

**Role: Informatica Developer**

**Responsibilities:**

* Assisted to prepare design/specifications for data Extraction, Transformation and Loading
* Developed Informatica mappings, enabling the extract, transport and loading of the data into target tables.
* Created **Workflow, Worklets** and **Tasks** to schedule the loads at required frequency using Workflow Manager.
* Prepared **reusable transformations** to load data from operational data source to Data Warehouse.
* Wrote complex **SQL Queries** involving multiple tables with joins.
* Worked with **complex queries** for data validation and reporting using **SQL** and **PL/SQL.**
* Developed stored procedures using PL/SQL and driving scripts using Unix Shell Scripts.
* **Scheduled** and Run Workflows in Workflow Manager and monitored sessions using Informatica Workflow Monitor.
* Analyzed the dependencies between the jobs and scheduling them accordingly using the Work Scheduler.
* Improved the **performance** of the mappings, sessions using various optimization techniques.

**Environment:** Informatica 8.1, PL/SQL, OBIEE, Erwin, Oracle 10g, SQL Server 2008, Flat files, SQL, putty, UltraEdit-32, shell Programming, Toad, SQL Developer, UNIX scripting, Windows NT.