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# Naga Muktavali

# Lead ETL Tester

Detail-Oriented Problem Solver and Robust System Builder with a Passion for Critical Thinking and Continuous Learning

**Experience Summary**

* 12+ years of rich work experience in large scale data and systems within the Banking and Financial services industry, specializing in data warehousing, **ETL testing** (Extract Transform Load), analytics testing, and some focused development.
* Leading team of testers and collaborating with cross-functional teams for over 10 years in **Business Intelligence / Data Warehousing** Center of Excellence.
* Experience in different types of testing like Manual testing, Black Box testing, Smoke testing, Functional testing, System Integration testing, End-to-End Testing, Regression testing & User Acceptance testing (UAT)
* Well versed in designing, documenting, and executing **Test plans, Test scenarios, and Test cases** for the complete **ETL process** based on the business scenarios.
* Thorough Knowledge in all phases of **Software Testing life cycle** including requirements gathering, project planning, testing, defect tracking, management, and reporting.
* Extensive hands-on with **ETL Validation on INFORMATICA, Ab-initio along with UNIX / Linux, ORACLE, TERADATA, SQL, Snowflake, Netezza and DB2**.
* Rich experience working with different source data formats like JSON, Flat files, EBCDIC files, Mainframe VSAM files.
* Developed mappings to automate the **ETL data validation** process using **Informatica** **PowerCenter designer** (source analyzer, target designer, mapping designer, transformation developer), **workflow manager** (session developer, workflow designer), **workflow monitor** (run, stop, resume workflows, session logs, workflow logs).
* Experience in use of **Micro focus Quality Center and Test Management Tool ALM 12.01** for writing test cases, test execution, defect management, defect Tracking, Traceability Matrix and Bug Reporting.
* Developed **Unix scripts** for ETL data extraction, data filtration, data profiling and **bash scripts** for data generation and triggering informatica ETL jobs.
* Performed **root cause analysis of data quality issues** during the **Testing life cycle.**
* Have OFSAA - Oracle Financial Services Analytical Applications Certification for the Insurance Enterprise Risk management projects in Insurance Domain.
* Worked with Guidewire ClaimsCenter for property and casualty insurance platform.
* Deep Hands-on with Test Automation Suite of Tools for Data Migration and Core Modernization projects
* Experience in reviewing and **testing data maps** between various legacy systems and relational databases.
* Developed and tested **SQL scripts for complex ETL logics** involving calculations, consolidations, and reporting.
* Proficiency in **Back-End Testing/Database Testing**
* Hands-on experience and strong understanding of **Agile methodologies** for **Software Development Life Cycle (SDLC)** and **Software Testing Life Cycle (STLC)**
* Instrumental in high quality project delivery by the team which lead to numerous new revenue streams for the company.
* Successfully delivered multiple projects with overlapping tasks and timelines.
* Consistently achieved high customer satisfaction ratings by delivering quality products and timely support.
* Adaptive, quick learner and extremely self-motivated.
* Learnt and got Certified in Snowflake and AWS Cloud basic with self-interest.
* Currently learning Python and developing small apps with Objects Oriented Programming. Also comfortable with data processing packages like Numpy, Pandas, matplotlib
* Well-groomed Communication with good Presentation and keen Documentation skills.
* A dependable Team Player and possess unquestionable Commitment and Dedication for work.

**Qualifications & Certifications**

* **AWS Certified Cloud Practitioner - CLF-C01**
* **Snowflake SnowPro Core Certification**
* **Data Science and Machine Learning Course with Scaler Academy (Currently pursuing)**
* **Post graduate Diploma in System Software Development**
* **Bachelor’s Degree in Electronics & Communication Engineering**

**Technical Skills**

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| --- | --- |
| **Programming Languages** | SQL, Python, C++, VBA (Macros), Shell for UNIX \ LINUX |
| **Cloud** | AWS |
| **Databases** | Snowflake, Oracle, SQL Server, Teradata 13.0, Netezza 7.2 and SAP Hana, DB2 11.0 |
| **Test Management Tools** | Micro focus Quality Center / ALM |
| **ETL Tools & Applications** | Informatica Power Center 9.6, Informatica DVO, AB-initio, SSIS, OFSAA - Oracle Financial Services Analytical Applications |
| **Reporting/Automation Tool** | Cognos, SSRS, Tableau, Platinum |

**Work Experience:**

**Santander Holdings N.A, USA Oct’22-Aug’23**

**Lead ETL tester**

**Project Description:** The following were the projects executed under this:

**Enterprise Payment Warehouse:**  The traditional payment transaction storage and archival system is being replaced and modernized to PARC using SWIFT messaging network.

**Customer Personalization Platform:** Offers informational and actionable insights. Personalized, timely and relevant highlights to inform customers about individual financial situations. Insights can help customers understand spending, cash flow, savings and investing highlighting what truly requires attention. Actionable insights and guidance, based on customer’s individual financial situation that guides customers towards better financial decisions.

**AFS Vision:** This project was a modernization effort to Automated Financial Systems (AFS) for the commercial lending business utilizing Informatica Intelligent cloud services (IICS) and Snowflake.

**Responsibilities:**

* Understand the business requirements by attending the project walkthrough meetings.
* Analysis of the requirement specification provided by the client and provide test estimates.
* Designed and reviewed **ETL Test Scenarios** and **Test Cases for SIT** and UAT to validate the complete **ETL Process** and target is loaded according to the **transformation rules** provided in the **mapping document**.
* Prepared **Test Strategy, Test plan, Test summary, Defect aging reports, Traceability matrix** and **Test execution metrics**.
* Executed the **Control-m batch jobs** to load the data into the tables.
* Performed ETL Validations like **Data Integrity checks, Data Accuracy and Data Completeness validation, error-handling logic**, validation on the data loaded and ensured that the data loaded is complete, accurate, and reliable as per the **transformation rules** in mapping document provided.
* Defect reporting, analyzing, and re-testing to closure as part of Defect Management and resolution (lifecycle) using ALM.
* Validated **ETL mapping** through **Complex SQL Queries** based on the **complex transformation rules** provided in the **mapping document** in **Oracle**.
* Validated data loaded into Snowflake using staging commands (PUT, GET, LIST) and SQL commands for transformed data into tables.
* Designed **automated scripts** for multiple source systems as **parameterized scripts** written in **SQL**.
* Executed **Functional testing** and **Database testing** handling sensitive customer profile data and application user flows.
* Ensured the Data systems setup for Digital transformation of commercial lending with AFS Vision
* Collaborated with multiple customer stakeholders and managed work across time-zones.
* Awarded the **Technical SME** role for **SQL and RDBMS**
* Prepared and reviewed pass logs covering all the possible test scenarios along with mock-ups of test data.
* Conducted technical & project grooming sessions for over 30 people
* Prepared weekly, monthly, and quarterly reports for account level governance.

**Environment:** INFORMATICA 10.2, IICS, Oracle 12, HP ALM 1221, MS-office, windows 7, Denedo, control-M, Snowflake.

**Santander Holdings N.A, USA Nov’19-Sep’22**

**Lead ETL Tester**

**Project Description:**

Corporate and Investment Banking (CIB) is a reporting hub to monitor client’s Performances and Profitability at the most granular product level (loans, account, deposits, trade). This will enable efficient storage and processing of all related information in one data hub.

Some major modules under this

* **Data Mart for Liquidity:** To consolidate the Funds transfer pricing components and commercial letter of credit rate amounts for loans and Deposits.
* **General Ledger:** To contain the general ledger account data at a daily, monthly, and aggregated level for the current year, 1 year ago and 2 years ago.
* **Average balances:** To calculate the average balances for finance criteria and business criteria for more than 1 month as well as average balance for current month.
* **Solvency:** to calculate and consolidate solvency information like Solvency metrics, provisions, etc. at a contractual level, regulatory model type.
* **Denodo Reporting:** views for Loan financial figures such as book balance and exposures, loan profitability, Solvency information.
* **Accounting reconciliation:** mainly to compare amounts posted on GL against those loaded from the operational systems that feed the GL.

**Responsibilities:**

* Managed a team of 8, allocating tasks as per task priority and ad hoc requests for testing, guiding, and training them as and when required.
* Managed Quality of a reporting hub for monitoring client performance and profitability at a detailed product level
* Understand the business requirements, analysis of the requirement specification provided by the client and provide **test estimates**.
* Designed and reviewed **ETL Test Scenarios** and **Test Cases** for SIT and UAT.
* Created Excel reports for **Extract validations** for UAT review.
* Verified the consistency of **data marts** and Data movements from Source Files to data mart to views to extracts and tableau reports ensuring the data for **completeness, accuracy, reliability**, and **comparability** to the manual Business reports used as part of legacy system.
* Reviewing and maintaining the **Test artifacts** with versioning, **test plans** to track the completion of project along with **Defect Management** and resolution (lifecycle) using ALM.
* Identified and designed complex and **scenario-based SQL scripts** for complex calculations, consolidations, and reporting.
* Designed automated scripts for multiple source systems as parameterized scripts written in **SQL**.
* Collaborated with Project Managers, On-site coordinators, developers, and testing teams and prepared daily status reports.
* Prepared weekly, monthly, and quarterly reports for account level governance.

**Environment:** INFORMATICA 10.2, Oracle 12, HP ALM 1221, MS-office, windows 7, Denedo, control-M, tableau reporting.

**Voya Financial Nov’17-Oct’19**

**ETL Tester**

**Project Description:** Worked on multiple projects namely:

**Actuarial Transformation Experience Study:** involves automated process to generate the annuity experience studies by extracting data from the source system and exporting calculated results for different annuity types, such as Lapse and Mortality using OFSAA. This helps understand the assumptions made before deploying rates on annuities.

**Financial Risk Management:** encompasses modernization of Risk Management Applications, Financial Management database, Annuity Hedging, Analytical Applications, and the centralized Data Warehouse

**Investment Risk Management:** An application, centralized Data warehouse that automatically sources and cleanses data for various annuity products. It also maintains the data required to create and analyze the data at both Seriatim and Compressed level. This project’s purpose was to create a functional working image of the system in clone environment as part of Data separation program between 2 companies.

**Finance Revitalization:** includes Data and Analytics workflows to deliver enhanced data-driven decisions capabilities to the Finance Organization, enabled by streamlined process and next gen technologies. This includes Centralized, governed, and standardized financial data to support management Analytics and Reporting using OFSAA.

**Responsibilities**:

* Propose cost saving innovations and automation to process. Conducted a demo of one such analysis showing savings by usage of Platinum (Test Automation Tool), created by Cognizant, to minimize and automate the testing effort. The proposal was accepted and **accrued about $1.5 M in savings** passed on to the client.
* Understand the business requirements, **LLD** and **Data Model**, Analyze the requirement specification provided by the client and provide test estimates.
* Prepared **Test Plan, Test Closure Report**, Designed and thoroughly reviewed **Test scenarios, Test Cases** for SIT and UAT.
* Verified the **Data movements** from Source File to target database (i.e.) **Data Integrity checks, Data Accuracy and Data Completeness validation, error-handling logic**, validation on the data loaded in the ETL process and ensured that the data is complete, accurate, and reliable as per the mapping document.
* **Defect Management, Defect Reporting**, Analyzing, and resolution & re-testing (lifecycle) using HP Quality Center 10 and ALM.
* Validated **ETL mapping** through **SQL Scripts** based on technical **mapping document**.
* Worked in a cross-functional team of 23 people
* Prepared pass logs covering all the possible **ETL test scenarios** along with mock-ups of test data.
* Conducted technical & project knowledge transfer sessions as a single point of contact for various applications.
* Prepared weekly, monthly, and quarterly reports for account level governance.

**Environment:** ODI, OFSAA, SSIS, SSRS, SQL, Oracle 12, HP ALM 12.01, MS-office, windows 7, Platinum.

**Enstar Group| India|Jul’17-Oct’17**

**ETL Tester**

**Project Description:**

Implementation of the claims management Center using the Guidewire software, a platform for Property & Casualty insurance carriers in Agile methodology. Guidewire ClaimCenter supports all lines of personal, commercial, and workers’ compensation insurance and is available as a stand-alone solution or as part of Guidewire InsuranceSuite.

**Responsibilities**:

* Understand the business requirements, LLD and Data Model, analyze the requirement specification provided by the client and provide test estimates for both Frontend as well as backend Testing efforts.
* Responsible for the complete backend **database testing** single handedly for about 80 tables
* Prepared **Test Plan, Test scenarios for frontend functional testing, Test cases, Test summary reports** for SIT.
* Verified the integrity of data in both frontend application and the Database loaded in the backend.
* Created Policies in Guidewire ClaimCenter and raising Claims against those policies checking all user flows
* Created **negative scenarios testcases** to ensure the proper implementation of rules against policies.
* Worked in a team of 16 and coordinated with product owners, Scrum masters and updated about testing efforts in various sprints.
* Updating logs covering all possible test scenarios and mockup policies and claims in ALM.

**Environment:** Guidewire ClaimCenter, SQL, Oracle 12, HP ALM 12.01, MS-office, windows 7.

**BB&T Bank| India|Mar’15-Jun’17**

**ETL Tester**

**Project Description:** This includes multiple projects:

**Lending Process Servicing:** involves replacement of Legacy system with an Automated system that caters to loans originations, servicing as well as reporting functions & processes out-of-box. It includes Custom extracts’ generation similar to MicroStrategy Reports. Data Standardization and Validation for seamless consumption of downstream (business and reporting) consumption from source (Servicing and Load Administration)

**Treasury Functions:** project encompasses sourcing and propagating extracts related to Balance Sheet Management, Investment Portfolios, Bank Owned Life Insurance (BOLI), Tender Option Bond (TOB) programs, Corporate Funding and Liquidity to include overnight funding, Mortgage Servicing Rights (MSR), Derivatives and Hedging management to various groups.

**Data Acquisition:** involves Informatica PowerExchange, reading data from about 120 diverse Source System data to produce the full transaction data file and control file at a pre-specified mount point. This enables the sharing of files between multiple systems without the need for a physical file transfer. Another Informatica process reads and loads files “as is” into SAP HANA.

**Record Keeping System Upgrade:** includes record keeping and management for the Investment Portfolio, Corporate Funding, Money Center, and Fed Funds products. Upgrade the InTrader application from Sungard InTrader 14.0 to Sungard InTrader 16.0

**CTR Address Doctor:** to validate the Informatica’s in built feature of validating the addresses.

**Responsibilities**:

* Led a team of 4 people performing efficient task allocation that eventually led to the ouster of another vendor development team from the account for Data Acquisition project.
* Understand the business requirements, LLD and Data Model, analyze the requirement specification provided by the client and provide test estimates and project entry and exit criteria documents like **Test Plan, Test Closure Report, Test Scenarios, Test Cases, Pass logs**, etc.
* Validated **extracts with complex ETL** logics to satisfy all the requirements.
* Verified the load process of ETL and target data for **Data Integrity, Data Accuracy and Data Completeness, error-handling logic**, validation on the data loaded and ensured that the data is complete, accurate, and reliable.
* Defect Management and resolution (lifecycle) using Quality Center 10
* Validated ETL mapping through **SQL scripts** based on mapping document.
* Prepared and transmitted the Weekly Status Report and Daily status report to all the stakeholders, by providing information on completed modules and the pending modules / in progress modules.
* Participated in Reviews with Functional Consultants and Developers.
* Performed Defect Reporting, Analysis & Re-testing in ALM.
* Prepared pass logs covering all the possible test scenarios along with mock-ups of test data.
* Conducted various grooming, onboarding, and knowledge transfer sessions.

**Environment:** Informatica, Netezza, UNIX, DB2, SAP HANA, SQL, HP ALM 12.01, MS-office, windows 7, Platinum

**Barclays Bank| ETL Tester, Cognizant| ETL Developer/ETL Tester, Tech Mahindra**

**Hyderabad, TL| Pune, MH, India|Apr’11-Apr’14|Jun’14-Feb’15**

**Project Description:** Worked on multiple projects across companies, across cities for the same account during the period with following descriptions:

**Cards portfolio System:** Caters to multiple normal or regulatory demands / change requests in a month as a release to enhance or include new functionalities to the existing Card portfolio system.

**Subscription Framework:** Provides an effective framework to allow various subscribed applications to consume the same data from a single platform in an agreed format. Validate, standardize, and publish the data into a common publish layer to be consumed by multiple data users and/or applications.

**TRAID R2:** Provides the Credit Risk business with more flexibility within strategies to enhance the credit risk process for determining product eligibility, sales limits & pricing for customers, which will enable them to realize an additional 50% of the projected benefits.

Used Tableau reporting tool to create various dashboards for the returns calculation to know how the absolute value of the portfolio has changed over time and performance attribution of different securities and segments within the fund performed over the time along with risk management to know the total risk taken to achieve the returns.

**VPG Automation (Development Role):** Ease the manual effort for the testers to validate the data before and after the process of loading the data into the Teradata table.

**Responsibilities**:

* Understanding the business requirements, LLD and Data Model.
* Analysis of the requirement specification provided by the client and provide test estimates.
* Involved in the **Test Plan** Preparation and **Run schedule** for SIT and UAT.
* **Test execution, Defect Management, and resolution** (lifecycle) using HP Quality Center 10 giving mandatory information of a defect to developers to fix it.
* Involved in Backend **Database testing** in **Teradata** using **SQL**.
* Designed and reviewed **ETL Test Scenarios and Test Cases** for SIT and UAT.
* Ensured **Data Integrity, Data Accuracy and Data Completeness, error-handling logic**, and ensured that the data is complete, accurate, and reliable.
* Validated extracts with complex logic to satisfy all the requirements for the extracts.
* Developed mappings using **Informatica PowerCenter Designer**, created sessions and Workflows in **Workflow Manager** and monitoring the flow in **Workflow Monitor** and validated session logs for errors.
* Communication with the Test Lead / Test Manager
* Conducted Review Meetings within the Team
* Interactions with BA & Dev teams to resolve the issues on daily/weekly basis.

**Environment:** AB-initio, Informatica, Cognos, Teradata, Tableau, SSIS, UNIX, DB2, SAP HANA, SQL, Quality Center 10, MS-office, windows 7, Platinum