**Misgina Tesfay**

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# SUMMARY:

* Over 6 years as ETL Tester of data warehousing experience in building and managing various data warehouses/data marts using Informatica products: Power Center 9.1/8.6/8.0/7.1, Power Exchange. SQL Server / SSIS, SSRS and SSAS
* Have worked extensively on analyzing project requirements and develop detailed specifications for the technical build.
* Experienced with ETL tool, Informatica, in designing and developing complex mappings, mapplets, transformations, workflows, worklets, and scheduled sessions.
* Hands on experience in ETL development processes using DTS and SSIS.
* Utilized workflow manager, workflow monitor and scheduled ETL jobs in Informatica.
* Proficient in developing, debugging, deploying SSIS Packages using SSIS designer
* Experience in Extraction, Transformation and Loading of data from different heterogeneous source systems like Flat files (Fixed width & Delimited), XML Files, COBOL files, Excel, Oracle, Sybase, MS SQL Server and Teradata.
* Performance tuned targets, sources, mappings and sessions, co-coordinated with DBA’s and UNIX administrator for ETL tuning.
* Good knowledge in strategy and implementation of AWS technologies such as EC2, S3, and EBS.
* Used SOAP UI to validate the response from various WSDL file.
* Migrated code from Sagent to informatica 9.x and tested all objects developed and checked their end to end consistency in new environment.
* Used stored procedures, functions, triggers, joins, views and packages in PL/SQL & Oracle 10g/9i/8i: Written SQL queries, stored procedures, and cursors Migrated PLSQL code to Informatica mappings.
* Developed interface for data transfer/data loading using PL/SQL programs, SQL\*Loader & Informatica.
* Interfaced TOAD to analyze, view and alter tables in various databases.
* Prepared star & snowflake data models and involved in designing EDW (enterprise data warehouses).
* Configured Informatica Data Quality (IDQ), defined rules, built scorecards, applied metrics and grouped into various dimensions in IDQ.
* Implemented data cleansing, tuning, profiling and reports, dashboards to display DQ results using IDQ.
* Developed data cleanup procedures, transformations, scripts, stored procedures and executed test plans for loading data successfully into targets.
* Knowledge of Jasper soft reporting tool and integration to IDQ tool.
* Involved in unit, integration & system testing and code migration between various environments.
* Exceptional problem solving and decision making capabilities, recognized by associates for quality of data, alternative solutions, and confident, accurate, decision making.

**TECHNICAL SKILLS:**

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| **Hardware/OS** | Windows XP/2000/2003 ,Sun Solaris, AIX, UNIX  LINUX,Tomcat Apache, IIS Server |
| **ETL Tools:** | Informatica Power Center (9X,8X,7X,6X)  Informatica Data Quality, SSIS, DTS |
| **Tools** | Toad 7.4, Erwin Data Modeller, Oracle Designer Professional  SQL \*Plus, PL/SQL Developer, SQL Developer, Test Directory  Autosys, Control-M, Version One, HP Quality Center |
| **Languages** | SQL, PL/SQL, Shell Scripting |
| **Data Bases:** | Oracle 9i/10g/11g ,DB2, Sybase, SQL Server 2005& 2008 |
| **Reporting Tools:** | Crystal Reports, Cognos Report , SSRS, Business Objects |
| **Methods** | dimensional modeling , business intelligence reporting , agile methodology |

### EXPERIENCE

**Fannie Mae, Herndon, VA Feb 2018 – Till Date**

**ETL Tester – Asset Backed Securities Data Mart**

Fannie Mae is a government sponsored enterprise (GSE) of the United States government. FNMA's primary method for making money is by charging a guarantee fee on loans that they have securitized into mortgage-backed security bonds. Investors, or purchasers of Fannie Mae MBSs, are willing to let Fannie Mae keep this fee in exchange for assuming the credit risk, that is, Fannie Mae's guarantee that the principal and interest on the underlying loan will be paid regardless of whether the borrower actually repays.

**Responsibilities:**

* Created complex queries according to the mapping document to test the data in source and target.
* Preparation of Requirements Traceability Matrix based on the business and the testing requirements.
* Prepare test case analysis and assisted in creation of the system test plan and end-to-end data migration system test plan.
* Analyzed the Data warehouse ETL Informatica DVO design documents to understand the logic
* Written complex SQL queries to validate the data movement based on data mapping document.
* Led conference calls with new customers to introduce and discuss data requirements.
* Performed extensive back end validations using SQL queries in TOAD to verify that the data has been processed correctly based on the business requirements
* Experience with SQL to query Oracle database to check/compare process inputs/outputs using complex joins and sub queries
* Tested various Business Objects Reports including Dashboards, Scorecards, Master Detailed, Grouped List & Cascade.
* Created test cases and test procedures for various stages of the Data warehouse ETL process including source to extract, source to staging and staging to target using SQL, Quality Center 10.00 and TOAD for Oracle 10g.
* Used Informatica Power Center Workflow Monitor to trigger master/stand-alone workflows.
* Used UNIX to validate error files and flat files.
* Used import and export facilities of the application to download/upload XMLs of failed test cases so as to re-verify.
* Written Python utilities and scripts to automate tasks in AWS using boto3 and AWS SDK. Automated backups using AWS SDK (boto3) to transfer data into S3 buckets.
* Big data Architectural analysis and Hadoop eco system migration with vm.
* Created end to end test procedures for full cycle validation of system functionalities.
* Performed extensive Multiple System Integration Testing and Functional Testing.
* Qualitative verification of data from source to target using a sampling approach based on stratification of data.
* Performed the Data warehouse Extract Transform and Load (ETL): source to target, utilizing Informatica Power center and Data Validation Option (DVO).
* Tested and developed UNIX shell scripts as part of the ETL Informatica DVO process, automate the process of loading, pulling the data.
* Executed dry runs and test script execution.
* Implemented Data Validation Option (DVO) for understanding on how to run tests, and evaluated the test results.
* Extensively involved in Defect tracking/observations, reviewing and analyzing and reporting test result using Quality Center.
* Analysis of change requests and identification of the impacted test cases and procedures.
* Participated in Weekly / Monthly QA metrics reviews, provide QA status reports to management
* Validated the server logs for ETL errors which are running on UNIX boxes by using Putty for my testing.
* Performed regression analysis and regression testing for all the test case scenarios based on the data mapping rules.
* Automated and scheduled the Data warehouse ETL Informatica jobs using UNIX Shell Scripting

**State Street Corporation, Boston MA Mar 2017 – Jan 2018 ETL Tester**

State Street is a leading financial services provider serving some of the world’s most sophisticated institutions. The application enables the customers to check their portfolios online, get breaking financial news, real time access to accounts, get electronic copies of statements, trade the stocks along with providing real time quote information, etc.

**Responsibilities:**

* Analysis of Business requirements & Design Specification Document to determine the functionality of the ETL Processes.
* Generated/Tested reports using free-hand SQL which had complex Business Logics for testing environment.
* Was involved in analysing scope of testing the application.
* Test Strategy was created to test the all modules of the Data Warehouse.
* Extensively done service support and service delivery (ITIL).
* Tested several complex reports generated by Cognos including Dashboard, Summary Reports, Master Detailed, Drilldown and Crosstab reports.
* Validating data present in the Cognos Reports. Developed test cases and scripts for ETL rules in Quality Center Test Plan.
* Extensively used Informatica power center for extraction, transformation and loading process.
* Updated the status of the testing to the ETL team and accomplished tasked for the assigned work
* Created the test data for interpreting positive/negative results during functional testing.
* Tested the ETL Informatica mappings using complex SQL queries.
* Did source identification, data collection, data manipulation and normalization and rule administration for data consolidation.
* Run various Batch jobs using telnet service (Unix)
* Tested the Informatica Mappings to load data from Source systems to ODS and then to Data Mart.
* Automated the entire Aggregation module using Win Runner, for Regression Testing.
* Was involved in ICT design, Planning, Deployment management, Operations management and Technical Support (ITIL).
* Used Bugzilla and HP Quality Center for Bug Reports and Defect Tracking.
* Performed Risk Analysis based on Defect Severity and Priority.
* Tested User Interface inconsistency and application functionality.
* Developed test scenarios for testing EDWH and Credit Data Mart data in Oracle environment.
* Worked with Data Extraction, Transformation and Loading (ETL).
* Used Toad for Data Analysts to compare Oracle and Teradata databases
* Performed System Integration Testing and Integration Testing between different modules.
* Heavily involved in interacting with UNIX Shell scripts.
* Good knowledge of Dimensional Data Modeling, Star Schema, Snow-Flake schema, FACT and Dimensions Tables, Physical and Logical Data Modeling.
* Involved in SOAP and Restful web services using SOAP UI, axis client.
* Hands on experience in writing test scripts, preparing test data, testing Informatica Mappings and creating SQL scripts using stored procedures, functions, PL/SQL
* Analysed Business Requirements and Developed the Test Plan, Test Scripts and Test Cases
* Developed Test Plan and Test Cases for the entire module of Data mart.
* Identified the Test Cases to be automated and lead the effort for automating the product.
* Ran test cases for the warehouse in Oracle.
* Involved in Database Testing.
* Worked with drill down, prompts, hierarchies, calculations, formulas, sorts, drop down list, breaks etc.
* Accelerate the rate of adoption of the system, improve the quality of the data being input and generated, and promote accountability amongst the staff and users.
* Made recommendations on potential functional and technical improvements to planned or existing system components and applications.
* Tested whether the reports developed are as per company standards.
* Involved in testing the XML files and checked whether data is parsed and loaded to staging tables.

**First Niagara Financial Group, Buffalo, NY Feb 2015-Feb 2017**

**ETL Tester**

**Description:** First Niagara is a multi-state community-oriented bank, providing financial services to individuals, families and businesses across Upstate New York, Pennsylvania, Connecticut and Massachusetts. The Architecture involved moving data from Legacy systems to relational tables in the staging area, moving staging data to the Data marts and finally moving data to the Multi-Dimensional Data warehouse. The project is First Niagara Bank conversion of Upstate New York and Connecticut branches from HSBC Bank.  
**Responsibilities**

* Involved in Requirement Analysis, ETL Design and Development for extracting from the source systems and loading it into the Data mart.
* Involving in all phases of SDLC from requirement, design, development, testing, training and rollout to the field user and support for production environment.
* Gathered requirement and prepared mapping documents and the data flow documents.
* Extensively used ETL to load data from multiple sources to Staging area (SQL Server 2008) using Informatica Power Center 7.1 Worked with pre and post sessions, and extracted data from Transaction System into Staging Area. Knowledge of Identifying Fact and Dimension tables.
* Worked with power Center tools like Designer, Workflow Manager, Workflow Monitor, and Repository Manager.
* Created Complex Type 1 SCD and Type 2 SCD mappings to update slowly Changing Dimension Tables.
* Experience analysing user requirements and translating them into system data structure designs.
* Solid Expertise in using both connected and unconnected Lookup Transformations.
* Extensively worked with various Lookup caches like Static cache, Dynamic cache and Persistent cache.
* Involved in writing T-SQL Procedures Using SQL Server.
* Involved in the developing & debugging of Sybase and SQL server procedures.
* Extensively worked with Joiner functions like normal join, full outer join, master outer join and detail outer join in the Joiner transformation.
* Developed reusable transformations and reusable mapplets.
* Worked with session parameters, mapping parameters, mapping variables and mapping parameters for incremental loading.
* Created reusable transformations and mapplets and used them in mappings.
* Extensively used transformations such as Source Qualifier, Aggregator, Expression, Lookup, Router, Filter, Update Strategy, Joiner, Transaction Control and Stored Procedure.
* Tuned sources, targets, mappings and sessions to improve the performance of data load.
* Involved in Performance tuning for sources, targets, mappings, and sessions.
* Performed unit testing on the Informatica code by running it in the Debugger and writing simple test scripts in the database thereby tuning it by identifying and eliminating the bottlenecks for optimum performance.

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**Fifth Third Bank, Dayton, OH Sept 2013- Jan 2015**

**QA / ETL Tester**

Fifth Third Bank is a fortune 500 company, provider of consumer and business banking, investment advisory and ATM merchant transaction processing and electronic fund transfers, Fifth Third is one of the most trusted US Bank for safeguarding customer privacy data. It is widely recognized as one of the biggest performing banks in the nation. The Scope of the project was to test the ETL processes developed for fetching data from OLTP system to the target market Data Warehouse by the use of complex SQL queries.

###### Responsibilities:

* Responsible for reviewing business requirements, functional specifications, project schedules, documentation and test plans.
* Prepared Test Cases for the mappings developed through the ETL tool SSIS and executed those Test Cases.
* Created ETL test data for all ETL mapping rules to test the functionality of the SSIS Packages.
* Used JIRA to create and maintain Test Requirements.
* Check for the assigned stories in JIRA and complete prior to deadline and mark it done after completion.
* Updated JIRA stories on the confluence page and followed Scrum Agile.
* Created ETL test data for all ETL mapping rules to test the functionality of the business systems.
* Performed Manual Testing to test the usability of the application.
* Performed extensive work with ETL testing including Data Completeness, Data Transformation & Data Quality for various data feeds coming from source.
* Conducted GUI testing to test the appearance and properties.
* Analysis the testing activities as per the planned forecast for the given projects.
* Analysis the Weekly QA Metrics Reports for to correct the reporting errors.
* Getting updates and working with project team members for issues captured through metrics reporting.
* Documented and reported bugs using JIRA.
* Actively participated in Status reporting meetings and interacted with Developers to discuss the technical issues.
* Analysed the requirement coverage and traceability to ensure the testing coverage
* Performed Smoke Testing, Sanity Testing.
* Performed back-end testing using SQL queries to validate data and perform Data integrity testing.
* Documented and reported bugs using JIRA.
* Executed the ETL jobs sessions and workflows.
* Established and documented ETL QA standards, procedures and QA methodologies.
* Performed data reporting & visualization in Tableau.
* Assisted in production Support whenever needed.
* Involved in creating test cases for regression testing and assist test lead during the testing activities.
* Was involved in Back End testing using SQL Queries on Oracle Database.
* Created and maintained SQL Scripts and Unix Shell scripts to perform back-end testing
* Reviewed extensive SQL Queries with complex multi-table joins and nested queries.
* Wrote extensive SQL queries for data validation, analysis and manipulation, and maintaining the integrity of the database.
* Responsible for executing SQL Queries for checking duplication in records.