BIJU

ETL Informatica Developer

# Summary:

* Over **12 years** of IT experience on Client-Server architecture, **Data Modeling, Data Analysis**, and Business applications in various phases of projects such as analysis, design, development, implementation and testing of Data warehousing using **Erwin**, **Informatica (ETL)**, **SQL, PL/SQL**, and **Oracle** on OLAP and OLTP.
* Implementation of Database Management Systems for Financial, Retail, Telecom, Healthcare & Insurance clients.
* Involved in design of **Dimension Models, Star Schemas and Snowflake schemas using Erwin**.
* Excellent knowledge of Bill Inmon and Ralph Kimball methodologies to design database architecture. Excellent knowledge on logical design and physical implementation for database design.
* Experienced in Normalization and Demoralization processes, Logical and Physical data modeling techniques.
* Working knowledge of **Hadoop (HDFS)** along with **Map-reduce.**
* Strong skills in **development of mappings,** documentation, implementation and enhancement of ETL strategies.
* Experience in **designing and developing complex mappings** applying various transformations such as Source Qualifier, Expressions, Sorter, Router, Filter, Aggregator, Joiner, Connected and Unconnected Lookups, Sequence Generator, Rank, Update Strategy and Stored Procedure**.**
* Experience with Informatica **Power Exchange** 9.x/8.x for change data capture (CDC) and mainframe data.
* Extensively worked with Informatica Data Quality (IDQ) for data analysis, cleansing, and data matching.
* Extensively worked on Integration of **Informatica MDM and Data Analyzer** in order to show End to End Lineage of Data elements and provide BI answers.
* Extensively worked on **Informatica Information Lifecycle Management (ILM)** in order to mask sensitive information and support **Test Data Management (TDM)** applications.
* Extensive experience in **Oracle Development** in table design, writing stored procedure, Database Triggers, Functions, PL/SQL packages, Oracle Cursor management, Exception Handling, MySQL and T-SQL.
* Extensive experience in **performance Tuning** SQL and PL/SQL code by using Explain Plan Table, Trace and TKPROF to significant improvement in system response time and efficiency.
* Programming skills using **PL/SQL, MySQL, T-SQL and Shell/Python Scripts**. Creation of scripts for collection of statistics, reorganization of tables and indexes and creation of indexes for enhancing performance.

## Technical Skills:

**CASE Tools:** Erwin, Visio

**ETL:** Palantir, Informatica (Power Center, Power Exchange, Developer Client, ILM, Metadata Manager, Data Analyzer, Test Data Manager, IDQ), SSIS

**Database:** Snowflake, Oracle, Teradata, Netezza, MS SQL Server, MS Access

**Tools:** TOAD, Shell/Python Scripting, PySpark

**BI Reporting Tools:** Cognos, MicroStrategy, QlikView, OBIEE, Crystal Reports

**Programming Language:** PL/SQL, Java, C/C++

**Operating Systems:** UNIX, Windows

**Education:**

* **M.S. in Electrical Engineering Jan 2007 to May 2010**

**Texas A&M University - Kingsville, TX**

* **B.E. in Electronics and Communication Engineering Jul 2002 to May 2006**

**Anna University – JJ College of Engg & Tech**

**Certification:**

* **Certified Scrum Master (CSM)**

###### Professional Experience:

**Charter Communication - CO (Remote) Jan 2022 to Current**

**Sr. ETL Developer/Lead/Data Analyst**

**Project Description:** The client is creating a new framework to replace its existing reporting structure. After moving the existing Data Warehouse from the traditional Teradata to Snowflake, they are creating new data flows for advanced reporting. These reports identify and analyze available data to create meaningful insights and new opportunities.

**Technical Environment: Snowflake, Python**

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL, PySpark programming.
* Assist in the ongoing development of technical best practices for **data movement, data quality, data cleansing** and other **ETL** – related activities.
* Patching, cloning, tuning as required and troubleshooting for user issues.
* Communicate with the Business Analysts, Data Modelers and Solution Architects when it comes to converting the ETL design into specific development activities.
* Use Data Analysis techniques on Snowflake data to familiarize with data and convert user ask to Business requirement documents.
* Analyze and model Snowflake to implement the requirement and prepare technical design for ETL process.
* Participate and contribute in quality assurance walk-through of ETL components.
* Develop estimated timelines or updating management on deviations to these estimates.
* Ensure the ETL code delivered is running, conforms to specifications and design guidelines and run in a system testing environment.
* Prepared High level design (HLD), LLD, Project functional Specification and Business Req document (BRD).
* Converted Business rules into Logical/Physical model and then into Technical Specifications for ETL process.
* Involved in all phases of SDLC from requirement, design, development, testing, pilot, training and rollout to the field users and support for production environment.
* Developed ETLs for Data Extraction, Data Mapping and Data Conversion.
* Involved in Testing and Test Plan Preparation, ETL developments and Cognos BI Dashboard development.
* The design document was finalized through conduct of design walkthroughs, and independent review by the user. Prepared Technical Specifications for all the utilities, as per the company's standards.
* Provided Knowledge Transfer to the end users and created extensive documentation on the design, development, implementation, daily loads and process flow of the Deep mappings.

**AT&T / DIRECTV - GA (Remote) Jan 2021 to Dec 2021**

**Sr. ETL Developer/Data Analyst**

**Project Description:** The client is creating a new framework to replace its existing reporting structure. After moving the existing Data Warehouse from the traditional Teradata to Hive, they are creating new data flows through Palantir for reporting aspect. This new framework with enable the client to monitor frauds related to subscription and upgrades. It will also enable it to identify cases which are highly prone to fraud and prevent incurring further losses.

**Technical Environment: Hive (HQL), Impala, Snowflake, Palantir (PySpark)**

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL, PySpark programming.
* Communicate with the Business Analysts, Data Modelers and Solution Architects when it comes to converting the ETL design into specific development activities.
* Analyze and model Snowflake to implement the requirement and prepare technical design for ETL process.
* Ensure the ETL code delivered is running, conforms to specifications and design guidelines and run in a system testing environment.
* Prepared High level design (HLD), LLD, Project functional Specification and Business Req document (BRD).
* Converted Business rules into Logical/Physical model and then into Technical Specifications for ETL process.
* Involved in all phases of SDLC from requirement, design, development, testing, pilot, training and rollout to the field users and support for production environment.
* Implemented JSON unpacking scripts to identify all the attributes and normalize them to create Hive framework.
* Developed ETLs for Data Extraction, Data Mapping and Data Conversion using Palantir Deep.
* Involved in Development of monocles in Palantir and tuned them for Optimum performance, Dependencies & Batch Design.
* Implemented Health checks in Deep jobs for the Audit process and daily job monitoring.
* Extensively used Code Workbook and Scratchpad in Palantir tool for data analysis and validation.
* Developed HQL queries for data sampling and PySpark programming for data manipulation to create sample dataframes for the users.
* Provided Knowledge Transfer to the end users and created extensive documentation on the design, development, implementation, daily loads and process flow of the Deep mappings.

**NTT Data/State of Indiana, IN Mar 2017 to Dec 2020**

**Sr. ETL Developer/Lead/Data Analyst**

**Project Description:** The client is implementing enhancements into the existing Data Warehouse. This new datamart will enable the client to improve managing welfare distribution, optimize finance reports and calculating implementation performance. It also involved changing the existing file feeds to be implemented in Informatica for ease of maintenance. Tuning of the existing jobs by means of tuning the workflow and redesign of the architecture to implement tenant structure is also being implemented.

**Technical Environment: Erwin, Informatica PowerCenter 10.2, Teradata, Oracle 11g**, UNIX

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL programming.
* Assist in the ongoing development of technical best practices for **data movement, data quality, data cleansing** and other **ETL** – related activities.
* Ensure the ETL code delivered is running conforms to specifications and design guidelines and run in a system testing environment.
* Developed ETLs for Data Extraction, Data Mapping and Data Conversion using Informatica PowerCenter.
* Involved in the Development of Informatica mappings and mapplets and also tuned them for Optimum performance, Dependencies and Batch Design.
* Worked on **Informatica Power center 9.5 Tool –** Source Analyzer, warehouse designer**, Mapping Designer, Workflow Manager, Mapplets, Worklets** and Reusable Transformation.
* Involved in **designing and developing complex mappings** applying various transformations such as Source Qualifier, Expressions, Sorter, Router, Filter, Aggregator, Joiner, Connected and Unconnected Lookups, Sequence Generator, Rank, Update Strategy and Stored Procedure**.**
* Extensively used Explain Plan Table, Trace and TKPROF in performance Tuning SQL and PL/SQL code to significantly improve system response time and efficiency.
* Used awk, sed, tar, grep commands, SQL plus for connecting and loading data through UNIX along with Shell/Python scripting.
* Involved in Testing and Test Plan Preparation, ETL developments and Cognos BI Dashboard development.
* Provided Knowledge Transfer to the end users and created extensive documentation on the design, development, implementation, daily loads and process flow of the Informatica mappings.

**Thrivent Financial, MN Sep 2015 to Feb 2017**

**Sr. ETL Developer/Data Analyst**

**Project Description:** The client is implementing enhancements into the existing Enterprise Data Warehouse. These new process involved masking sensitive information for the creation of Test Data Management (TDM) application. It also involved streamlining the existing systems by redesigning the Data models, decommissioning the unused components and tuning the Informatica jobs.

**Technical Environment: Erwin, Informatica PowerCenter 9.5, Information Lifecycle Management (ILM), Metadata Manager, Data Analyzer, Oracle 11g**, OBIEE, Windows Vista

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL programming.
* Created data movement mapping between the databases and identified the possibilities of incorporating the new business rules with the existing design.
* Created prototype reporting models, specifications, diagrams/charts to provide direction to system programmers.
* Prepared High level design (HLD), LLD, Project functional Specification and Business Req document (BRD).
* Participated in Data Modeling, Data Analysis and user requirement gathering meetings.
* Involved in all phases of SDLC from requirement, design, development, testing, pilot, training and rollout to the field users and support for production environment.
* Extensively used Informatica **Metadata Manager** and **Data Analyzer** for Data analysis and mining.
* Good knowledge on creating and applying rules and policies using **ILM** workbench for data masking.
* Extensively used Explain Plan Table, Trace and TKPROF in performance Tuning SQL and PL/SQL code to significantly improve system response time and efficiency.
* Used awk, sed, tar, grep commands, sql plus for connecting and loading data through UNIX along with Shell/Python scripting.
* Involved in Data analysis, Data Quality Assurance, created validation routines, unit test cases and test plan.
* Working knowledge and brief experience with Hadoop (HDFS) and map-reduce.
* Used Informatica Developer (IDQ) for data profiling and analysis.

**Verizon Telematics, GA Nov 2014 to Aug 2015**

**Data Analyst/Architect**

**Project Description:** The client is implementing enhancements into the existing Data Warehouse. These new cubes that are added will enable the client to generate reports related customers and serve them better. It also involved changing the file feeds to be implemented in Informatica for ease of maintenance. Tuning of the existing jobs by means of tuning the workflow and redesign of the Data model is also being implemented.

**Technical Environment: Erwin, Informatica PowerCenter 9.5, Oracle 11g**, OBIEE, Windows Vista

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL programming.
* Identified the possibilities of incorporating the new business rules with the existing design.
* Involved in the Development of Informatica mappings and mapplets and also tuned them for Optimum performance, Dependencies and Batch Design.
* Worked on **Informatica Power center 9.5 Tool –** Source Analyzer, warehouse designer**, Mapping Designer, Workflow Manager, Mapplets, Worklets** and Reusable Transformation.
* Involved in **designing and developing complex mappings** applying various transformations such as Source Qualifier, Expressions, Sorter, Router, Filter, Aggregator, Joiner, Connected and Unconnected Lookups
* Wrote scripts for collection of statistics, reorganization of tables and indexes, and creation of indexes for enhancing performance and performance tuning for data access.
* Data governance team assuring data quality in terms of accuracy, accessibility, consistency, and completeness
* Take part in Data governance team meetings for implementation of Data Management lifecycle components like conformance with reference architecture, data warehousing strategy, data classification programs & data quality.

**Hewlett-Packard, GA Jan 2013 to Oct 2014**

**Data Analyst/Architect**

**Project Description:** The client adding new cubes that will enable the client to identify loyal customers and serve them better. It will also help them to analyze and implement strategies to expand their customer base and provide better deals to the existing ones. The data will also be funneled to various calculation engines and data-marts needed for internal reporting.

**Technical Environment: Erwin, Informatica PowerCenter 9.0.1, SQL server 2008,** **MySQL**, Seaquest, Yotta (HP Internal database and BI tools), Vertica (Big Data), Windows Vista

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, Data modeling (Logical/Physical Data models), System analysis, Database design, ETL design and development, SQL, PL/SQL programming.
* Created prototype reporting models, specifications, diagrams/charts to provide direction to system programmers.
* Prepared High level design (HLD), LLD, Project functional Specification and Business Req document (BRD).
* Data governance team assuring data quality in terms of accuracy, accessibility, consistency, and completeness
* Played the lead role in Designing and implementing **Pricing Analytics, Best Customer and Finance Master Data Alignment Services (MDM)** Data marts.
* Take part in Data governance team meetings for implementation of Data Management lifecycle components like conformance with reference architecture, data warehousing strategy, data classification programs & data quality.
* Involved in requirement gathering and database design and implementation of star-schema, snowflake schema/dimensional data warehouse using **Erwin**.
* Played the role of a Data warehouse architect in the **Business Intelligence Enterprise Architecture** group for providing data architectural strategies.
* Used Informatica Data Quality (**IDQ**) for data profiling and cleansing.

**Tufts Health Plan, MA Sep 2011 to Dec 2012**

**ETL Developer**

**Project Description:** The customer is implementing a healthcare reporting warehouse as part of their vision to build an Enterprise Data Warehouse and to store the data element. This warehouse will be populated with the operational data from various source systems. Thereafter data from this warehouse will be funneled to various calculation engines and data-marts needed for internal reporting.

**Technical Environment: SQL server 2005/2008,** MS SQL Server Integration Services (**SSIS**), SSRS, Windows Vista

**Responsibilities:**

* Experience in Data Warehouse/Data Mart design, System analysis, Database design, ETL design and development, SQL, PL/SQL programming.
* Developed ETLs for Data Extraction, Data Mapping and Data Conversion using SSIS.
* Experience in creating SSIS packages using **Active X scripts** and with **Error Handling**.
* Experience in using SSIS tools like **Import/Export Wizard**, **Package Installation**, and SSIS Package Designer.
* Experience in enhancing and deploying the SSIS Packages from development server to production server.
* Used ETL (**SSIS**) to develop jobs for extracting, cleaning, transforming and loading data into Data Warehouse.
* Extensively used **SSIS** transformations such as Lookup, Fuzzy Lookup, Derived column, Data conversion, Aggregate, Conditional split, Term Extraction, Pivot Transformation, SQL task, Script task and Send Mail tasks**.**
* Created **SSIS Reusable Packages** to transferring heterogeneous data from Multi formatted Flat files, Excel, XML files, DB Source (Oracle) into to SQL Server 2005/2008.
* Monitored and Tuned MS SQL Server databases with tools like Index Tuning Wizard, SQL Profiler, and Windows Performance Monitor for optimal Performance.

**BCBSM, MI Jun 2011 to Aug 2011**

**ETL Developer**

**Project Description:** The project involved the development of a Claim Processing System by means of integrating data from disparate feed systems. This ensured that the claim processing conformed to the specified CMS standard. This project also involved changing the systems over from the ICD 9 codes to the ICD 10 to conform to WHO requirements.

**Technical Environment: Informatica PowerCenter 8.6 & 7.1, Informatica Power Exchange**, **IDQ,**  COGNOS 8.3, **SQL server 2005, Netezza,** Windows Vista

**Responsibilities:**

* Involved in **data analysis and development** to understand attribute definitions for migration.
* **Prepared mapping specifications documents**, unit testing documents for developed **Informatica mappings.**
* **Prepared mapping documents** for loading the data from legacy system, flat files to staging area.
* Worked with NZSQL and NZLOAD utilities to load data into **Netezza** from flat files.
* Worked with Informatica **Power Exchange** for change data capture (CDC) and mainframe data.
* Worked on **Informatica Power center 8.5.1 Tool –** Source Analyzer, warehouse designer**, Mapping Designer, Workflow Manager, Mapplets, Worklets** and Reusable Transformation.
* Extensively used Router, Lookup, Aggregator, Expression and Update Strategy transformation.
* Involved in the **design and development of mappings** from legacy system to target **Netezza** database.
* Used Informatica Data Quality (**IDQ**) for data profiling and cleansing.
* Used Netezza Groom command to reclaim space for table space.

**MSRK Enterprises Sep 2010 to Jun 2011**

**ETL Developer**

**Project Description:** The project involved in the development and maintenance of Decision Support System by means of integrating data from disparate feed systems, situated across different locations, into a repository of meaningful business information. The Data warehouse is designed to handle the increasing data volume generated by the company’s growing active client base while improving customer service levels. The solution provides quick access to data to enable informative decision making.

**Technical Environment: Informatica PowerCenter 8.6, Informatica Power Exchange,** Informatica Data Quality (**IDQ**), **Teradata**, COGNOS8.3, **SQL server 2005,** Windows Vista

**Responsibilities:**

* **Prepared mapping specifications documents**, unit testing documents for developed **Informatica mappings.**
* **Prepared mapping documents** for loading the data from legacy system, flat files to staging area.
* Prepared mapping documents for loading the data from staging area to ODS.
* Defined Target Load Order Plan for loading data into different Target Tables.
* Worked on **Informatica Power center 8.5.1 Tool –** Source Analyzer, warehouse designer**, Mapping Designer, Workflow Manager, Mapplets, Worklets** and Reusable Transformation.
* Involved in the **design and development of mappings** from legacy system to target data base.
* Involved in **performance tuning of the mappings** by doing necessary modification to reduce the load time.
* Used Informatica Data Quality (**IDQ**) for data profiling and cleansing.
* Extensive experience in writing stored procedure, Database Triggers, Functions, PL/SQL packages and **T-SQL**.
* Optimized Query Performance, Session Performance and Reliability.
* Used pmcmd, mailx command to execute jobs from **UNIX platform**.
* Coordinated with DBA team to resolve issues pertaining to load timings and any other database related issues which are hindering performance of loads.
* Supported UAT and production testing by identifying and resolving bugs, and Data/LoadIssues.