Sanjib Kumar Baliarsingh

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**PROFESSIONAL SUMMARY:**

* Over Twelve (12+) years of technically sophisticated & business savvy software professional with strong leadership qualifications and hands-on experience in Data warehouse and Business Intelligence.
* Expertise in **Informatica** **PowerCenter 9.x/8.x** including development, designing, performance tuning, administration and Support as software development activities.
* Worked with all the phases of System Development and Project Management Life Cycles from analysis of business requirements.
* Extensively Used **Power Exchange CDC Express** to simplify ETL in data warehouse applications.
* Worked with Informatica **Data Quality 9.1 (IDQ)** toolkit, Analysis, data cleansing, data matching, data conversion, exception handling, and reporting and monitoring capabilities of IDQ 9.1.
* Strong knowledge of Informatica Data Quality transformations like Address validator, Parser, Labeler, Match, Exception, Standardizer and other significant transformations.
* Developed the mappings, workflows and Testing (INFA DVO) as per the Low level design documents.
* Experience with **Data flow diagrams, Data dictionary, Database normalization theory techniques, Entity relational modelling**and**design techniques**.
* Strong hands on experience using Teradata utilities (SQL, B-TEQ, Fast Load, MultiLoad, FastExport, Tpump)
* Expertise in Application Development using **Oracle SQL, PL/SQL** and **Oracle Developer Suits**.
* Experience in query optimization, performance and tuning (PL/SQL) using **SQL Trace, Explain Plan, Indexing, Hints and table partitioning**.
* Extensively worked with Relational (ER), Normalized, ODS/Staging, Star and Snowflake Dimensional Data Models.
* Expertise in Dimensional Modelling using **Star Schema/Snowflake Schema**
* Expertise in ETL Testing (Informatica), Functional, Integration, Regression, Database testing and Performance (Browser compatibility) testing
* Experience in preparing Test Strategy, developing Test Plan, Detailed Test Cases, writing Test Scripts by decomposing Business Requirements, and developing Test Scenarios to support quality deliverables.
* Experienced in Informatica Administrator, Production Support, Incident and Change management.
* Experienced in Repository Service Backup, Recovery and Migration in the entire environments.
* Experience in UNIX shell scripting and scheduling tools like Crontab, BMC Control-M, Autosys.
* Experience in 24X7 production support, ETL executions and resolving root causes.

**TECHNICAL SKILLS:**

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| **Business Tools:** | Informatica PowerCenter9.x/8.x, PowerExchange(CDC), Informatica DVO, IDQ, MDM, SSIS, Tableau, SQL Developer, Rational Clear Case, Rational Clear Quest, Agile Development Methodology, Erwin 4.0 |
| **Project Management Tools:** | Microsoft Project, Microsoft Office, MS PowerPoint, MS Visio, VSS, Autosys, Control-M, HPSA (Opsware), CA7, Op-Con, Tivoli workload scheduler |
| **Operating Systems:** | Windows 7,8,10, Windows NT, Windows2000, UNIX, AIX 6.1, Linux, Z/OS |
| **Languages:** | T-SQL, SQL, PL/SQL, BTEQ, Fast Load, MultiLoad, FastExport, TPump, Shell Scripting, TOAD, Developer2000, Pig & Hive |
| **Databases:** | Oracle 10g, SQL Server, DB2, Mainframes, Teradata, MPP platform(Netezza), MS Access, |

**PROFESSIONAL EXPERIENCE:**

**Fannie Mae, Herndon, VA Oct’2016 – Present**

**Tech Lead/Sr. ETL Developer**

**Project Description:** Extract the Party Master data from MDM database for both Base and History tables and loaded into the IDS environment and the pushing the data into EDW environment. Vending the data from IDS schema to all the consumer using TIBCO. Implement the enumeration logic for each enumeration attributes and generate the transaction bus event and Integration business event when it occurs.

**Responsibilities:**

* Interacting with business owners for requirement gathering and analysis to define functional specs
* Involved in designing the data model (Conceptual/physical) for warehouse ETL.
* Done Installation, Configuration and Administration of Informatica.
* Doing activities like user, access and object management, configuring DB connections etc.
* Worked on capture and registration by Power Exchange CDC express for Oracle
* Prepared Solution specification document which contains the details functionality to get the MDM database tables and functionality to extraction and load into IDS tables.
* Developed Informatica Mappings, Sessions and Workflows by implementing the enumeration logic.
* Generate the transaction bus event and Integration business event for each transaction for party tables.
* Created ETL mappings including various transformations such as Source Qualifier, Lookup, Update Strategy, Expression, Filter, Router, and Sequence Generator, Aggregator, xml parser, xml generator, Java, Java API , HTTP and web service consumer transformations.
* Created Data Quality transformations like Address validator, Parser, Match, Exception, Standardizer and other significant transformations.
* Involved in Code review, Functional and Integration testing for all the mappings and workflows
* Strong working experience of the SDLC processes
* Worked with Informatica Data Quality 9.1 (IDQ) toolkit, Analysis, data cleansing, data matching, data conversion, Parsing and Standardizer.
* Applied the rules and profiled the source and target table's data using IDQ.
* Used IDQ’s standardized plans for addresses and names clean ups.
* Performed SQL and PL/SQL tuning and Application tuning using various tools like EXPLAIN PLAN and AUTOTRACE.
* Developed Test Plans, Test Cases, and Test Scripts for SIT and support for UAT tests.
* Creation of database objects like tables, views, materialized views, procedures and packages using oracle tools like Toad, SQL Developer and SQL\* plus.
* Used Pragma Autonomous Transaction to avoid mutating problem in database trigger.
* Extensively used the advanced features of PL/SQL like Records, Tables, Object types and Dynamic SQL
* Developed standard and reusable mappings and Mapplets using various transformations like expression, aggregator, joiner, source qualifier, router, lookup, and filter.
* Developing UNIX shell scripts for automating and enhancing/streamlining existing manual procedures used at client location

**CVS Health, Woonsocket, RI Mar2016 – Sep2016**

**Tech Lead/Sr. ETL Developer**

**Project Description:** RxConnect system scales, supporting a single retail pharmacy up through an enterprise organization consisting of multiple pharmacies dispersed across a large geographically area. All the stores are connected through a centralized database which contains the data about patients, Prescribers, Drugs and other entities. There are hundreds of batches that load the data in to the system and also generate several reports for the business users.

**Responsibilities:**

* Interacting with business owners for requirement gathering and analysis to define functional specs
* Involved in designing the data model (Conceptual/physical) for warehouse ETL.
* Prepared High level and Low level design documents.
* Developed conceptual, logical and physical design documents.
* Setup and configure PowerCenter domain, grid and services
* Done Installation, Configuration, and Administration of Informatica.
* Managing the DEV/QA/UAT/PROD environments with High Availability and GRID setup
* Developed Informatica Mappings, Sessions and Workflows, used PowerExchange CDC express.
* Created Data Quality transformations like Address validator, Parser, Labeler, Match, Exception, Standardizer and other significant transformations.
* Develop common slowly changing dimension ETL code SCD type 1 and SCD type 2
* Maintain the Customer Address History by Developing SCD type 2
* Involved in Code review, Functional and Integration testing for all the mappings and workflows
* Developed shell scripts to validate Headers and Footers of a file, automation of execution and sending the reports through mail to required persons.
* Performed Unit testing and Performance Tuning testing
* Worked with Informatica Data Quality 9.1 (IDQ) toolkit, Analysis, data cleansing, data matching, data conversion, Parsing and Standardizer.
* Utilized of Informatica IDQ to complete initial data profiling and matching/removing duplicate data.
* Created PL/SQL stored procedures, functions and packages for moving the data from staging area to data mart.
* Created scripts to create new tables, views, queries for new enhancement in the application using TOAD.
* Created PL/SQL scripts to extract the data from the operational database into simple flat text files using UTL\_FILE package.
* Partitioned the fact tables and materialized views to enhance the performance
* Created ETL mappings including various transformations such as Source Qualifier, Lookup, Update Strategy, Expression, Filter, Router, and Sequence Generator, Aggregator, xml parser, xml generator, Java, Java API, HTTP and web service consumer transformations.
* Monitor the scheduled jobs or run the workflows and scripts which need to run the day.
* Technical expertise on troubleshooting the issues and resolving Informatica related problems
* Developing UNIX shell scripts for automating and enhancing/streamlining existing manual procedures used at client location

**E.I. DuPont, Delaware           Jan2013 – Feb2016**

**Sr. ETL Developer, POLARIS**

**Project Description:** The SPVC 2.0 project takes data from various sources to calculate complex calculations, in order to provide the Product Cost Accountants various parameters involved in the cost of a Product. This data is than analyzed using Tableau to help the decision makers minimize the Product cost at various levels. The SPVC methodology is being implemented for various Businesses of DuPont one by one. Data sourced from various applications and flat files is processed using Informatica, with DB2 as Staging Database and SQL Server 2008 as the final destination which is used by Tableau Reporting.

**Responsibilities:**

* Participating in User meetings, gathering requirements, discussing the issues to be resolved, translating the user inputs into ETL technical design documents (Conceptual, logical and physical design docs).
* Proficient ETL tools like Informatica Designer, Repository Manager and Workflow Manager. Also created PowerExchange CDC. Extract the data from the SAP BW sources.
* Develop common slowly changing dimension ETL code SCD type 1 and SCD type 2.
* Involved in Development, Code review, Functional and Integration testing for all the mappings with change data capture (CDC) and workflows and in Performance Tuning.
* Prepared L2 design documents, Technical Object documents, Business Scenario documents.
* Created ETL mappings including various transformations such as Source Qualifier, Lookup, Update Strategy, Expression, Filter, Router, and Sequence Generator, Aggregator, xml parser, xml generator, Java, Java API , HTTP and web service consumer transformations.
* Performed Unit testing and Performance Tuning testing.
* Upgrade PowerCenter to version 9.6 from 9.1.
* Developed Test Plans, Test Cases, and Test Scripts for SIT and support for UAT tests.
* Developing UNIX shell scripts for automating and enhancing/streamlining existing manual procedures used at client location
* Involvement in implementation of BTEQ and Bulk load jobs.
* Converted batch jobs with BULKLOAD utility to TPUMP utility
* Designing the ETLs and conducting review meets Involvement in implementation of BTEQ and Bulk load jobs.
* Developed MLOAD scripts to load data from Load Ready Files to Teradata Warehouse.
* Created BTEQ scripts to extract data from warehouse for downstream applications.
* Developed processes on both Teradata and Oracle using shell scripting and RDBMS utilities such as Multi Load, Fast Load, Fast Export, BTEQ (Teradata) and SQL\*Plus, SQL\*Loader (Oracle).
* Used Pragma Autonomous Transaction to avoid mutating problem in database trigger.
* Extensively used the advanced features of PL/SQL like Records, Tables, Object types and Dynamic SQL.
* Extensively involved in using hints to direct the optimizer to choose an optimum query execution plan.
* Used Bulk Collections for better performance and easy retrieval of data, by reducing context switching between SQL and PL/SQL engines.
* Setup and configure PowerCenter domain, grid and services
* Develop Tableau reports that provide clear visualizations of various industry-specific KPIs.

**Royal Bank of Scotland (RBS) Oct 2011 - Dec 2012**

**Sr. Developer, POLARIS**

**Responsibilities:**

* Understanding the business, functional specification and preparation of Application design document.
* Participation in knowledge sharing sessions with the customer.
* Involved in designing the data model(Conceptual/physical) for warehouse ETL.
* Extract the Data from Source (DB2, SQL Server Tables) Landing Area to Staging and Loaded into Data Warehouse
* Developed the mappings and workflows as per the Component design documents.
* Discussion with client about the derivations rule for each item and prepare the data.
* Worked on PowerExchange CDC
* Perform the Unit testing and preparing/reviewing the test plan.
* Debugging and rectification of test case statements.
* Involved in Performance Tuning of sources, targets, mappings, transformations and sessions to optimize session performance.
* Involved in updating procedures, functions, triggers, and packages for validation and loading of data into target table based on the current requirement.
* Performed SQL and PL/SQL tuning and Application tuning using various tools like TKPROF, AUTOTRACE and DBMS\_SQLTUNE.
* Experience in Database Application Development, Query Optimization, Performance Tuning and DBA solutions and implementation experience in complete System Development Life Cycle
* Designed and developed Oracle forms & reports generating up to 60 reports.
* To coordinate the smooth functioning of the module, status reporting, progress reports, resource allocation, planning, organizing project related trainings and holding team meetings.
* Involved in administration activities like user creation, folder creation, configuring DB connections.
* Developing UNIX shell scripts for automating manual process

**Morgan Stanley Smith Barney (MSSB) Jan 2010 - Sep 2011**

**Informatica Developer , POLARIS**

**Responsibilities:**

* Understanding the business specifications and functional specification.
* Understanding the subject areas such as Accounts, Trades, Transactions, Clients, Security Master.
* Prepared the Technical design document which includes design, conceptual and logical architecture.
* Analyzing the tables by capturing the index, partition, category, DCLGEN, copybooks, load jobs, load files and backup files.
* Analyzing the Files by capturing the DCLGEN, copybooks, creator jobs, receiver jobs. Load jobs, load files and backup files using mainframe.
* Preparation of understanding documents as per the business functionality.
* Developed mappings, workflows with extensively used Transformations like Router, Aggregator, Normalizer, Joiner, Expression, Lookup, Update strategy and Sequence generator.
* To coordinate the smooth functioning of the module, status reporting, progress reports, resource allocation, planning, organizing project related trainings and holding team meetings.

**Carnival Cruise Lines, Miami, Florida Jul 2007 - May 2009**

**Sr. Developer, TCS**

**Responsibilities:**

* Analysing the existing system and understanding the business specifications and preparation of Low level design as per the business specifications.
* Developed workflows, mappings with extensively used Transformations like CDC, Router, Aggregator, Normalizer, Joiner, Expression, Lookup, Update strategy and Sequence generator.
* Extensively used Informatica debugger to figure out the problems in mappings. Also involved in troubleshooting existing ETL bugs.
* Installed PowerCenter software, administer repositories and provide application support
* Involved in Performance Tuning of sources, targets, mappings, transformations and sessions to optimize session performance.
* Preparation of understanding documents as per the business functionality.
* Involved in updating procedures, functions, triggers, and packages for validation and loading of data into target table based on the current requirement.
* Performed SQL and PL/SQL tuning and Application tuning using various tools like TKPROF, AUTOTRACE and DBMS\_SQLTUNE.
* Debugging and rectification of test case statements.
* Involved in production support to make sure all issues are fixed in the respective turn-around times.

Experienced in Informatica administrator, change management and Production Support.

**Apple Computer Inc., Cupertino, California Mar 2006 - Jun 2007**

**Developer, TCS**

**Responsibilities:**

* Generate the Reports by running the jobs as per the COB each country.
* Changes the coding as per new geo code includes for new region retail stores.
* Monitored the Autosys jobs.
* Experience in deploying forms and reports on the web.
* Experience in writing SQL queries, stored procedure for data analysis and data validation.
* Experience in developing forms based on views, tables and procedures in tabular & form layouts.
* Wrote shell scripts to run the session
* Designing test cases and obtaining the test results.
* Involved in preparation and execution of unit test cases.
* Status report meetings with onsite/team members.
* Tracking the tasks and issues in the project.

**Supervalu, New Delhi, India Mar 2004 - Feb 2006**

**Developer, TCS**

**Responsibilities:**

* Received Involved in the analysis, coding and implementation of Change Requests sent by SuperValu
* Worked on Type 2 Slowly Changing Dimension.
* Developed ETL mappings using Informatica Powercenter8.6 to load data from flat files, Oracle to Staging Oracle and from Staging Oracle to Teradata.
* Created mappings using transformations like Source Qualifier, Normalizer, Expression, Filter, Router, Aggregator, Lookup, Update Strategy, Sequence generator, Rank and Joiner transformations.
* Created sessions from Workflow Manager for the mappings developed
* Wrote shell scripts to run the session and Monitored the Autosys jobs.
* Designing test cases and obtaining the test results.
* Involved in preparation and execution of unit test cases.

**EDUCATION:**

* Master of Computer Application (M.C.A)
* Bachelors of Science (BSC) in Chemistry

**CERTIFICATIONS:**

* PowerCenter 8 Level II Developer Training in 2008
* PowerCenter 8 New Features For Developers Training in 2008