

Sailesh Pooja

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**PROFESSIONAL SUMMARY**

* Around 8+ years of extensive experience in ETL (Extract Transform Load), Data Integration and Data Warehousing using **Teradata, Informatica and Ab Initio technologies**.
* Very good understanding of Teradata’s **MPP architecture** such as **Shared Nothing**, **Nodes**, **AMPs**, **BYNET**, **Partitioning**, **Primary Indexes** etc.
* Extensively created and used various **Teradata Set Tables, Multi-Set table, global tables, volatile tables, temp tables**.
* Extensively used different features of **Teradata** such as **BTEQ**, **Fastload**, **Multiload**, **SQL Assistant**, DDL and DML commands. Very good understanding of Teradata UPI and NUPI, secondary indexes and join indexes.
* Experience in Mainframe applications development. Mainframe skills include **TSO, COBOL II, JCL, DB2, SQL, SPUFI, QMF, IMS, IDMS, CICS** and VSAM.
* Extensive knowledge in Business Intelligence and Data Warehousing Concepts with emphasis on ETL and System Development Life Cycle (SDLC).
* Thorough knowledge of database management concepts like **conceptual, logical and physical data modeling** and **data definition, population and manipulation**. Expertise in **logical and physical database design**
* Working Knowledge of Data warehousing concepts like **Star Schema and Snow flake Schema, Data Marts, Kimball Methodology used In Relational, Dimensional and Multidimensional data modelling**.
* Extensive knowledge on Data Analysis and Data Profiling using SQL.
* Implemented **Slowly changing dimension types (I, II &III) methodologies** for accessing the full history of accounts and transaction information designed and developed change data capture solutions (CDC) for the project, which captures and analyses changes from daily feeds to maintain history tables.
* Proficiency in **design and developing the ETL objects using Informatica Power center** with various Transformations like Joiner, Aggregate, Expression, SQL, Lookup, Filter, Update Strategy, Stored Procedures, Router, Rank, normaliser transformations etc.
* Automated the **BTEQ report generation** using UNIX scheduling tools on weekly and monthly basis. Well versed with understanding of **Explain Plans** and **confidence levels** and very good understanding of **Database Skew**. Knowledge in **Query performance tuning** using **Explain, Collect Statistics, Compression, NUSI and Join Indexes including Join and Sparse Indexes**.
* Extensively worked on **Viewpoint** for Teradata to look at performance Monitoring and performance tuning. Well versed with **Teradata Analyst Pack** including **Statistics Wizard, Index Wizard and Visual Explain**. Experience in programming with **SQL** and **PL/SQL** (**Stored Procedures, Functions, Cursors, and Database Triggers).**
* Very good experience in Oracle database application development using Oracle 10g/9i/8i/x, SQL, PL/SQL, SQL Loader.
* Strong SQL experience in **Teradata** from developing the ETL with Complex tuned queries including analytical functions and BTEQ scripts.
* Extensively used Mapping Variables, Mapping Parameters, and Dynamic Parameter Files for improved performance and increased flexibility and also worked with XML Sources & Targets.
* Data Processing Experience in Designing and Implementing Data Mart applications, mainly Transformation Process using Informatica.
* Developing workflows with Worklets, Event waits, Assignments, Conditional flows, Email and Command Tasks using Workflow Manager.
* Knowledge of **push down optimization concepts** and tuning Informatica objects for optimum execution timelines.
* Experienced with identifying Performance bottlenecks and fixing code for Optimization in Informatica and Oracle.
* Created **UNIX shell scripts** for Informatica post and pre session operations, database
* Administration and day-to-day activities like, monitor network connections and database ping utilities.
* Extensive experience in implementation of Data Clean-up Procedures, Transformation, Scripts, Stored Procedures and execution of Test plans for loading the data successfully into Targets.
* Maintaining the Visual Source Safe (VSS), Quality matrices, Knowledge management and Defect prevention & analysis.
* Creating Checklists for Coding, Testing and Release for a smooth, better & error free project flow

**EDUCATIONAL QUALIFICATIONS**

Bachelor of Technology, JNTU, Hyderabad, India

**TECHNICAL EXPERTISE**

|  |  |
| --- | --- |
| **Data Warehousing and Tools**  **Data Transfer and Data Migration**  **Data Warehousing & ETL** | **Data Analysis and Data Modeling**  **Performance Tuning/Query Optimization**  **ETL Testing** |

TECHNICAL SKILLS

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| --- | --- |
| **Primary Tools:** | Informatica Power Center 9.0.1/8.6/8.1, Ab Initio (Co>Op 3.0.3.9/2.15/2.14, GDE 3.0.4/1.15/1.14), Teradata SQL, Teradata Tools and Utilities, Oracle 10g/9i |
| **Languages:** | Teradata SQL, COBOL, JCL, REXX, SQL |
| **Teradata Utilities:** | BTEQ, FastLoad, MultiLoad, TPump, SQL Assistant, Teradata Manager |
| **Databases:** | Teradata 14/13.10/13/12, Oracle 10g/9i, DB2/UDB, SQL Server |
| **Operating Systems:** | Windows 95/98/NT/2000/XP, UNIX, Linux, NCR MP-RAS UNIX |
| **Data Modeling:** | Erwin, ER Studio |
| **Scheduling tools:** | Control M, Autosys |

**CERTIFICATIONS**

* Teradata Certified Professional
* Teradata Certified SQL Specialist
* Teradata Certified Implementation Specialist

**TRAINING**

* BigData – Hadoop, HDFS, HIVE, PIG, HBASE, Flume, SQOOP
* Ab Initio – Basic and Advanced
* Informatica 8.6.1
* Erwin/ER Studio
* Teradata – SQL and Advanced SQL, Teradata – SAS, Teradata Physical Implementation, Teradata Physical Design and Tuning

**PROFESSIONAL EXPERIENCE**

**Blue Cross Blue Shield of Texas, TX Aug 2015 – Present   
Role: Teradata Developer**

**Environment:** Teradata, Oracle, PL/SQL, SQL Server and T-SQL, SSIS, Cognos, VB.NET, ASP.NET

**Notable Contributions:**

* Involved in gathering **business requirements, logical modelling, physical database design, data sourcing and data transformation, data loading, SQL and performance tuning**.
* Wrote complex SQL’s using analytic functions, volatile tables, and different joins and stored procedures to do an ETL tasks and reports.
* Worked on writing Teradata and T-SQL stored procedures and packages for data loading, reports and data analysis and validation.
* Worked on SQL\*Loader to load data from flat files obtained from various facilities every day.
* Developed PL/SQL triggers and master tables for automatic creation of primary keys.
* Created PL/SQL stored procedures, functions and packages for moving the data from staging area to data mart.
* 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.
* Created Presentation views for Cognos and Tableau team to leverage to create reports.
* Analysis, development, testing & support on both database and front end.
* Extracts & manipulating data from Teradata EDW.
* Work closely with the business group to understand requirements, translate it into design, code, test, maintain and enhance if needed.
* Increase reporting capabilities from the medical management organization.
* Creation of BAU weekly and monthly and Adhoc reports on Alerts system.
* Creation of loading scripts such as Fastload, Mload and TPT.
* Development of scripts for loading the data into the base tables in EDW and to load the data from source to staging and staging area to target tables using **FastLoad**, Ab initio, **MultiLoad and BTEQ utilities** of Teradata. Writing scripts for data cleansing, data validation, data transformation for the data coming from different source systems.
* Involved in comprehensive end-to-end testing- **Unit Testing**, **System Integration Testing**, **User Acceptance Testing and Regression.**
* Working on Application database called FRED on SQL Server.
* Creation of SSIS package to Extract, Transform and load the data.
* Working on VB.Net client-server and ASP.Net web-based applications and worked on IIS web server configuration.
* Create Automation scripts using VB.Net and VBA to run SSIS Package, Teradata loading scripts and sending emails using Lotus notes domino component.
* Create and debug VBA code in MS Access application.

**T-Mobile, Atlanta, GA Jan 2013 – Aug 2015**

**Role: Teradata Developer/ETL Consultant**

**Environment:** Informatica Power Center 9.6/9.1, Teradata 14.10/14, Control-M, Oracle 11g/10g, fixed width files, TOAD, SQL Assistant, Unix, Korn Shell Scripting, Autosys r11.1, SAS, Business Objects, Flat Files.

**Notable Contributions:**

* Extracted data from **DB2** database on **Mainframes** and loaded it into **SET** and **MULTISET** tables in the Teradata database by using various Teradata load utilities. Transferred large volumes of data using Teradata **FastLoad, MultiLoad**, and **T-Pump**.
* Performed **Query Optimization** with the help of **explain plans, collect statistics, Primary** and **Secondary indexes**. Used **volatile table** and **derived queries** for breaking up complex queries into simpler queries. Streamlined the Teradata scripts and **shell scripts** migration process on the UNIX box.
* Designed and developed a number of complex mappings using various transformations like **Source Qualifier**, **Aggregator**, **Router**, **Joiner**, **Union**, **Expression**, **Lookup**, **Filter**, **Update Strategy**, **Stored Procedure**, **Sequence Generator**, etc.
* Created **reusable sessions**, Workflow**, Worklet, Assignment, Decision, Event Wait and Raise and Email Task and Scheduled Task** based on Client requirement.
* Used Informatica debugger to test the data flow and fix the mappings.
* Involved in creating **Unit test plans** for and testing the data for various applications
* Developing as well as modifying existing **mappings** for enhancements of new business requirements mappings to load into **staging tables** and then to **target tables** in EDW. Also created **mapplets** to use them in different mappings.
* Defining the schema, staging tables, and landing zone tables, configuring base objects, foreign-key relationships, complex joins, and building efficient views.
* Changing the existing Data Models using Erwin for Enhancements to the existing Data warehouse projects.
* Expertise in writing scripts for **Data Extraction**, **Transformation** and **Loading** of data from legacy systems to target data warehouse using **BTEQ**, **FastLoad**, **MultiLoad,** and **Tpump**.
* Supported various business teams with Data Mining and Reporting by writing complex Teradata SQLs using **Basic and Advanced SQL including OLAP functions like Ranking, partitioning and windowing functions**.
* Conduct business requirement review sessions with IT and Business teams to understand what the outcome should be based on data elements.
* Very good understanding of **Database Skew**, PPI, **Join Methods and Join Strategies**, Join Indexes including sparse, aggregate and hash.
* Used extensively Teradata Analyst Pack such as **Teradata Visual Explain**, **Teradata Index Wizard** and **Teradata Statistics Wizard**.
* Used extensively **Derived Tables, Volatile Table** and **GTT** tables in many of the ETL scripts.
* Performed application level DBA activities **creating tables, indexes**, monitored and tuned Teradata **BETQ** scripts using Teradata Visual Explain utility.
* Written complex **SQLs** using **joins, sub queries and correlated sub queries**. Expertise in **SQL Queries** for cross verification of data.
* Developed the **Teradata Macros, Stored Procedures** to load data into **Incremental/Staging** tables and then move data from staging into Base tables
* Reviewed the SQL for **missing joins & join constraints**, data format issues, **miss-matched aliases**, casting errors.
* Extensively worked on **Performance tuning** to increase the throughput of the data load (like read the data from flat file & write the data into target flat files to identify the bottlenecks).
* Worked on **Error handling** and **performance tuning** in **Teradata queries and utilities**.
* Writing **SQL Scripts** to extract the data from Database and for Testing Purposes.
* Interacting with the **Source Team** and **Business** to get the Validation of the data.
* Involved in resolving issue tickets related data issues, ETL issues, performance issues, etc.
* Used in Unix Schell scripting to automate several ETL processes.
* Created and Scheduled the Auto-sys process in the production by creating the JIL files.
* Strong expertise in **physical modeling** with knowledge to use **Primary, Secondary, PPI**, and **Join Indexes.**
* Used extensively **Derived Tables, Volatile Table** and **GTT** tables in many of the ETL scripts.
* Create new UNIX scripts to automate and to handle different file processing, editing and execution sequences with shell scripting by using basic Unix commands and ‘**AWK, ‘SED** editing languages.
* Created **UNIX shell scripts** for Informatica post and pre session operations, database administration and day-to-day activities like, monitor network connections and database ping utilities.
* Developed **UNIX shell scripts** to run batch jobs in **Autosys** and loads into production.

**Norfolk Southern Corp, Atlanta, GA Mar 2011 - Dec2012**

**Role: Teradata Developer**

**Environment::**Informatica 9.1(Designer, Repository Manager, Workflow Manager, Workflow Monitor), Informatica 8x, Oracle 10G, Teradata, UNIX, Citrix, Toad, Putty, PL/SQL Developer

**Notable Contributions:**

* Involved in understanding the Requirements of the End Users/Business Analysts and developed strategies for **ETL** processes.
* Extracted data from **DB2** database on **Mainframes** and loaded it into **SET** and **MULTISET** tables in the Teradata database by using various Teradata load utilities. Transferred large volumes of data using Teradata **FastLoad, MultiLoad**, and **T-Pump**.
* Architected and developed **FastLoad and MultiLoad** scripts developed **Macros** and **Stored procedures** to extract data, **BTEQ scripts** to take the date range from the database to extract data.
* Created **JCL** scripts for calling and executing **BTEQ, Fast Export, Fload, and Mload** scripts.
* Responsible for requirements gathering for an enhancement requested by client. Involved in analysis and implementation for an Intranet Based Information Management Information System.
* Provided maintenance and support of Online and Batch Programs using **COBOL, DB2, CICS, JCL**.
* Writing queries using **SPUFI** to extract data from various **DB2** Views for reporting purpose
* Converting the Table data from **DB2 region** to TERADATA region using FASTLOAD and MULTILOAD Utilities.
* Responsible for Coding, Unit Test Plans, Unit Test Results, Functional Testing and Regression Testing.
* Synchronizing all regions PCR, Unit and System while migration changes from lower region to acceptance.
* Wrote several DB2 Stored Procedure scripts to implement the business logic.
* Handling Ad-Hoc Report Requests.
* Reviewing programs for QA and Testing.
* Developed Teradata **BTEQ** scripts to implement the business logic and work on exporting data using **Teradata FastExport**.
* Wrote highly **complex SQL** to pull data from the **Teradata EDW** and create **AdHoc** reports for key business personnel within the organization.
* Created [data models](http://www.linkedin.com/skills/skill/Data_Models) for information systems by applying formal **data modeling** techniques.
* Strong expertise in **physical modeling** with knowledge to use **Primary, Secondary, PPI**, and **Join Indexes.**
* Designed **Fact tables** and **Dimension tables** for **star schemas** and **snowflake schemas** using **ERWIN** tool and used them for building reports.
* Performed **reverse engineering** of **physical data models** from databases and SQL scripts.
* Provided database implementation and **database administrative support** for custom application development efforts.
* **Performance tuning** and optimization of database configuration and application SQL by using **Explain** plans and **Statistics collection** based on **UPI, NUPI, USI, and NUSI.**
* Developed **OLAP** reports and Dashboards using the **Business intelligence tool - OBIEE**.
* Involved in comprehensive end-to-end testing- **Unit Testing**, **System Integration Testing**, **User Acceptance Testing and Regression.**
* Provided **24/7 On-call Production Support** for various applications and provided resolution for night-time production job abends, attend conference calls with business operations, system managers for resolution of issues.

**BHP Billiton Ltd., Houston, TX Sept 2010 – Feb 2011**

**Role: ETL Developer**

**Environment::**Informatica 9.1(Designer, Repository Manager, Workflow Manager, Workflow Monitor), Informatica 8x, Oracle 10G, Teradata, UNIX, Citrix, Toad, Putty, PL/SQL Developer

**Notable Contributions:**

* Analyzing, designing and developing ETL strategies and processes, writing ETL specifications, Informatica development, and administration and mentoring other team members.
* Developed **mapping parameters and variables** to support SQL override.
* Used various transformations like Filter, Expression, Sequence Generator, Update Strategy, Joiner, and SQL, Lookup (File and Database) to develop robust mappings in the Informatica Designer.
* Worked on **Teradata** and its utilities – **Tpump, Fastload** through Informatica, Also created complex Teradata Macros
* Worked and Implemented **Pushdown Optimization (PDO)** to optimize performance issues of complex mappings involving numerous transformations and hence degrading the performance of the session.
* Involved in Performance tuning at source, target, mappings, sessions, and system levels.
* Exhaustive testing of developed components.
* Worked on the various enhancements activities, involved in process improvement.
* Used Informatica client tools – **Source Analyzer**, Warehouse designer, **Mapping designer**, **Transformation Developer**, **WorkFlow Manager**, **Workflow Monitor**.
* Worked on **Change data Capture (CDC)** using CHKSUM to handle any change in the data if there is no flag or date column present to represent the changed row.
* Worked on **reusable code known as Tie outs** to maintain the data consistency. It compared the source and target after the ETL loading is complete to validate no loss of data during the ETL process.
* Worked on **Ab Initio** in order to replicate the existing code to Informatica.
* Implemented **Teradata MERGE statements** in order to update huge tables thereby improving the performance of the application.
* Used reusable transformation objects such as **mapplets** to **avoid duplication** of metadata, reducing the development time.
* Performed unit testing at various levels of the ETL and actively involved in team code reviews.
* Created **shell scripts** to fine tune the ETL flow of the Informatica workflows.
* Migrated the code into QA (Testing) and supported QA team and UAT (User).
* Working with **Power Center Versioning** (Check-in, Check-out), Querying to retrieve specific objects, maintaining the history of objects.

**Abbot Labs ▪ Waukegan, IL May 2008 – Aug 2010**

**Role: ETL Developer**

**Environment::**Informatica 9.1(Designer, Repository Manager, Workflow Manager, Workflow Monitor), Informatica 8x, Oracle 10G, Teradata, UNIX, Citrix, Toad, Putty, PL/SQL Developer

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