

Sinoop Joy

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Summary

- Over **4.5+** years of compound experience in Information Technology
- Experience in developing applications using **Core Java – Collections, Concurrency/Multithreading, Data Warehousing**, developing strategies for Extraction, Transformation & Loading (ETL) mechanism- using **Teradata & Oracle** and **UNIX, VBA Automation** using various APIs and user forms
- Excellent experience in designing and maintaining complex **SQL** queries and developing **stored procedures**.
- Proficient in **Excel** – Managing and interpreting large volume of data, creating custom functions etc.
- Experience in using version control tools like Git, Synergy, SVN
- Areas of involvement : Database design, Application support, Performance tuning, Optimization, and setting up the test and development environments
- Extensive experience in designing and developing **stored procedures, functions, constructing tables, views, indexes, triggers** and **user defined data types, Performance testing** with all indexing techniques, looking at query plan for highest performance and complex SQL tuning to handle large volume of data
- Experience in developing applications with JavaScript. Built Rich Internet Application using front end technologies like JQuery, HTML and CSS.
- Excellent interpersonal and communication skills, experienced in working with senior level managers, business people and developers across multiple disciplines
- Ability to work independently and contribute individually as well as in an ambient team environment.
- Closely work with client on daily and weekly basis and managed onsite & offshore model.

Technical Skills

Operating system	: Linux, UNIX, OS/390, Windows 7/8/10
Data base	: Teradata
Programming Language	: C, C++, C#, SQL, VBA, Java, COBOL, JCL
Other Tools	: Teradata SQL Assistant, Informatica , Teradata Administrator, BTEQ, Multi load, Fast load, Fast Export, View Point, Visual Explain, Statistic Wizard, Putty, Git, Synergy, Quality Center, Jira

Education

- University College of Engineering Kariyavattom

Project Profile**Morgan Stanley, New York [Jul 2015 – till Date]****Asset Taxonomy**

A project which presents clients asset allocation on statement in an effort to align with firm's strategic asset allocation standards.

The project required acquiring data from various new sources and reshaping them using the Informatica load to Teradata. Teradata stored procedures were used to implement the business logic and fast export was used to output the data to the downstream.

Data Alignment

Data alignment project addresses various data, display, presentation and calculation inconsistencies among financial advisors and client applications. The main focus is to provide central point of data source to firm-wide systems.

The entire set of transaction (close to 400+) had to be analyzed with the help of 3 years of historical data (more than 80 million records per month) for Business Analyst team to conclude the requirement. Various Aggregation and Summarizing techniques were used to conclude the analysis.

The change was controlled by using a static table to ease out the transaction level changes. This really helped in minimizing the changes and manual errors.

DB Integrity Check

As part of the Risk management, we needed to ensure the data quality of back up and Production environment to ensure the data quality every month.

A UNIX , Teradata based tool will give us the confidence to flip the environment at any point of time. Excel VBA knowledge was leveraged to do the final formatting of the results and summarizing the result.

Pipe File Comparison Tool:

A JAVA based Tool to compare the delimited files with custom record format. Each record can span multiple lines. We can have multiple files in each folder. Since the order of the records can be changed, we cannot assure that the same record will be present in File N in both sides. Tools had to intelligently scan the files and keep track of the files.

TreeMap was used to keep track of the records and Diffutils library was used for making the comparison of records. SWING UI was used to create a UI for the tool and tool created report in Excel format with the summary of changes. This really helped to track the changes. Memory management was used to clear out the records as soon as the comparison was done.

The tool helped in QA testing to make sure the changes were not impacting no other components. Masking of records were provided as an enhancement to remove the reporting of known differences.

POC to convert the tool into Hadoop based comparison tool is in progress.

Roles and Responsibilities :

- Function as subject matter expert and provide technical advice on industry best practices for Business Intelligence systems, tactical queries, advanced analytics, and data mining
- Developed **BTEQ scripts** to execute set of stored procedures
- Designed and developed various **Teradata stored procedures and macros** to populate refined data based on the business logic specified by the requirements and send the data to on-line and statement reporting application
- Implemented complex logic using **Teradata Stored Procedures** to extract and populate tax lot information for each customer into open system architecture
- Developed **Fast Export scripts** to generate different delimited files to external applications processing
- Identify **performance issues** and make recommendations for resolution such as the identification of worst performing SQL instances, long running queries, understand and maintain performance management macros / processes and investigate all SQL through DBQL and PMCP interrogation
- Create RQC (Real-time Quality Check) to ensure data quality of client statements which reduced approximately 20% of data quality issues
- Review the architecture and code being developed on performance aspects
- Closely working with quality QA team on fixing defects

Environment and Technologies: Teradata, SQL Assistant, Teradata utilities – BTEQ, Fast load, Fast Export, M Load, Viewpoint, Teradata Administrator, Unix, VBA , Hadoop

Morgan Stanley, Chennai [Oct 2011 – Jul 2015]**Private Wealth Management Conversion**

Private Wealth Management held the high networth accounts. As part of the conversion, these accounts were merged to the Morgan Stanley systems. Unlike the Smith Barney accounts, these accounts had to be treated separately. The system was adjusted to treat these accounts in this way. The new data feeds were loaded to Teradata using Informatica after applying the necessary transformations.

Morgan Stanley - Smith Barney Merger

This was one of the biggest merger in Morgan Stanley history. The entire assets of Smith Barney had to be migrated to Morgan Stanley system. Major reconciliation of transfers were carried out. The reporting methodology which Morgan Stanley used to follow was converted to Trade date based reporting as part of the conversion and the Statements was redesigned to align with the Smith Barney system.

Taxlot Recon Tool :

A tool created in Excel VBA using the forms and ODBC connections to automate the client queries regarding the balance and activity reconciliation.

Previously the operations team had to manually look at the document printouts and manually calculate the reason for the mismatch of the cash flow. The tool connected to Teradata and summarized the changes in a simple formatted way to be used by the operations team. This reduced the manual errors and reduced the turnaround time from 3 days to 10 minutes.

The tool helped in saving close to \$65k per annum.

BPO Reporting Tool:

Tool created in Excel VBA which connects to Mainframe using Host Explorer API to do window manipulation. The tool could extract the required details from Mainframe and connect to Outlook to deliver the report to the specified set of people. Manual intervention was greatly reduced by this change.

We could save close to 12 hours of manual effort per month.

Table Recon Tool:

To set up and ensure the test environments, masked data from PROD needs to be copied and load the test environment tables on a monthly basis. Comparing the table integrity was a challenge especially when the number of tables is more. The tool helps you to compare the environment data in a fast and convenient way by using VBA and ODBC concepts.

Roles and Responsibilities :

- Analyzed 30 years plus legacy statement reporting application and extract various business rules
- Developed **BTEQ scripts** to execute set of stored procedures
- Implemented complex logic using **Teradata Stored Procedures** to extract and populate tax lot information for each customer into open system architecture
- Responsible for application development, **data profiling, data quality, quality** assurance
- Perform POCs for many technical solutions that provides best visualization of the performance, trend, in terms of usability and scales with future expansion
- SME for Statement Application and VBA automation
- Creating stored procedures , tables , views , FEXPs , BTEQs and scripts
- Data profiling to identify the impact of changes
- Identifying the pain areas and look for automation scope
- Use versioning tools like Git and Synergy to track the changes
- Designed and developed strategies to accommodate the mergers and do reconciliations
- Create unit test scenarios and execute them to ensure correctness
- Interact with numerous teams to correctly identify the requirements and went through different iterations to handle all the different scenarios
- Conduct brainstorming session to generate new ideas

- Work closely with client and onsite counter-part to understand the requirements
- Analyse the performance aspect of existing and new objects and finetune them to achieve better performance

Environment and Technologies: VBA, Putty, Java, Teradata, UNIX