The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Solicitation Response(SR) | Dept: 0210 | ID: ESR03062400000004674 | Ver.: 1 | Function: New | Phase: Final | 🔽 | Modified by batch , 03/06/2024

Header 📎 2   ☐ ☐

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1379271

Procurement Type: Central Master Agreement

Vendor ID: VS0000022272 🔼

Legal Name: Capricorn Systems, Inc.

Alias/DBA:

Total Bid: $832,000.00

Response Date: 03/06/2024 📅

Response Time: 12:27

Responded By User ID: csi@3569 🔼

First Name: Ram

Last Name: Vaada

Email: rvaada@capricornsys.cor

Phone: 6786890936

SO Doc Code: CRFQ

SO Dept: 0210

SO Doc ID: ISC2400000011

Published Date: 3/1/24

Close Date: 3/6/24

Close Time: 13:30

Status: Closed

Solicitation Description: Addendum No 1 -Professional Database Engineer (OT24116)

Total of Header Attachments: 2

Total of All Attachments: 2

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder:	1379271
Solicitation Description:	Addendum No 1 -Professional Database Engineer (OT24116)
Proc Type:	Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2024-03-06 13:30	SR 0210 ESR03062400000004674	1

VENDOR
VS0000022272
Capricorn Systems, Inc.

Solicitation Number:	CRFQ 0210 ISC2400000011

Total Bid: 832000   **Response Date:** 2024-03-06   **Response Time:** 12:27:49

Comments:

FOR INFORMATION CONTACT THE BUYER
Toby L Welch
(304) 558-8802
toby.l.welch@wv.gov

Vendor
Signature X   **FEIN#**   **DATE**
All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Professional Database Engineer - YR1	2080.0000	HOUR	100.000000	208000.00

Comm Code	Manufacturer	Specification	Model #
80111609			

Commodity Line Comments: Our Candidates can start 2 weeks from date of award. If a specific candidate is not available at the time of the award, we will provide you with candidates with similar skill sets and qualifications to start within 2 weeks of contract award.

Extended Description:

Fill out an hourly rate into the unit price field. The quantity amount is estimated for evaluation purposes only. The actual hours used may vary depending on usage.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Professional Database Engineer - Optional YR2	2080.0000	HOUR	100.000000	208000.00

Comm Code	Manufacturer	Specification	Model #
80111609			

Commodity Line Comments: We will renew candidates within 24 hours should the State wish to renew our contractor.

Extended Description:

Fill out an hourly rate into the unit price field. The quantity amount is estimated for evaluation purposes only. The actual hours used may vary depending on usage.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Professional Database Engineer - Optional YR3	2080.0000	HOUR	100.000000	208000.00

Comm Code	Manufacturer	Specification	Model #
80111609			

Commodity Line Comments: We will renew candidates within 24 hours should the State wish to renew our contractor.

Extended Description:

Fill out an hourly rate into the unit price field. The quantity amount is estimated for evaluation purposes only. The actual hours used may vary depending on usage.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Professional Database Engineer - Optional YR4	2080.0000	HOUR	100.000000	208000.00

Comm Code	Manufacturer	Specification	Model #
80111609			

Commodity Line Comments: We will renew candidates within 24 hours should the State wish to renew our contractor.

Extended Description:

Fill out an hourly rate into the unit price field. The quantity amount is estimated for evaluation purposes only. The actual hours used may vary depending on usage.

Dinesh Chandra
Senior Database Engineer
Availability: 2 Weeks from date of Award

PROFESSIONAL SUMMARY

- Senior Database Consultant with 14 years of experience in IT as **Sr Database Engineer/Developer/MS SQL Server Reports Developer** working in various domains such as Finance, Insurance and Healthcare in 2012/2008R2/2008/2005/2000 Windows Environment. Expertise in Database Administration, Design, Development and Support of MS SQL Server 2012/2008R2/2005/2000 in Production, UAT and Development Environments.
- Extensive experience in T-SQL, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS) creating **Design, Development, Testing, Implementation and Production/Support** phases of SDLC for Online Transaction Processing System **(OLTP)**, Data Warehouse **(OLAP)**, Client/Server, RDBMS and Web Based Application working in Agile, Waterfall, RUP environment
- Expertise in Data Extraction, Transforming and Loading **(ETL)** using SQL Server Integration Services **(SSIS)**, Business Intelligence Development Studio **(BIDS)**, Data Transform Services **(DTS), Bulk Insert, BCP.**
- Experience in building robust Architecture to organize Data flow from various homogeneous and heterogeneous system using **SQL Server Integration Services (SSIS)** and Data Transform Services (DTS).
- Expertise in upgrading/migrating from DTS to SSIS packages, resolving complex issues and Error Handling in SSIS. Extensive experience in **Tuning SQL queries** and improving query performance.

PROFESSIONAL EXPERIENCE

Mar 2020 –PRESENT   REDFIN/ Rentpath, Atlanta, GA
Redfin/ Rentpath is a leading digital marketing solutions company that empowers millions nationwide to find apartments and homes for rent.

Sr Data Architect / Sr. Database Engineer / Consultant

- Debugged Weblogs processing for Preprocessing, Processing, Ingestion and Parsing of weblogs data files to SQL Server Database using **SSAS, SSIS, SQL Server Stored Procedures, Audit tables, SQL Server Profiler, Excel.**
- Designed SQL Server Stored Procedures based process for Weblogs processing to bypass SSAS based Cube refresh that was uncertain processing duration. Developed, deployed and monitored SSIS Packages for new ETL Processes.
- Retrieved multi-million records for data loads using SSIS and by querying against Heterogeneous Data Sources like SQL Server, Oracle, Text files and some Legacy systems.
- Used different **SSIS Transformations** like Lookups, Derived Column, Merge Join, Fuzzy Lookup, For Loop, For Each Loop, Conditional Split, Union all, Script component etc.
- Transferred data from various data sources/business systems including MS Excel, MS Access, Flat Files and **HDInsight** to SQL Server using SSIS/DTS packages using various features for Scaling up / Scaling out for HD Insight.
- Performed the optimization and tuning of **ETL transformations**, data validations and stored procedures.
- Implemented cell level security in cubes using **MDX expressions** to restrict users of one region seeing data of another region using **SSAS**.
- Worked on **Star and Snowflake Schemas** and used the fact and dimension tables to refresh the cubes, perform processing and deployed them to **SSAS database**.
- Created PowerShell script to execute the embedded SQL script and managed dashboards, reports, datasets, backup of all published reports across multiple workspaces using PowerShell Cmdlets
- Used Power BI to create self-service BI capabilities and use **tabular models**.
- Wrote **Python** codes to consume data from source systems.
- Created Calculated **Columns** and **Measures** in Power BI and **Excel** depending on the requirement using **DAX queries**.
- Created **hierarchies** in Power BI reports using visualizations like Bar chart, Line chart, etc.
- Worked with both live and import data into Power BI for creating reports.
- Managed relationship between tables in Power BI using **star schema**.
- Used different type of slicers available in **Power BI** for creating reports.

- Created complex power BI dashboards.
- Created Azure Data factories (**ADF**) for loading the data to **Azure SQL database** from various source systems.

Environment - SQL Server 2017/2019, SQL / SSIS based ETL, Oracle, PowerBI Desktop / Service, Tableau, Agile Scrum, JIRA, Git, Github, SSRS, SQL Server Job Agent, Azure Data Lake, Azure Data Factory, Azure Synapse, Salesforce, Slack, Microsoft Teams, Azure Databricks, Azure SQL Data Warehouse, SQL Profiler, C#, Python, Azure HDInsight

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Jun 2019 – Feb 2020   Optum / UnitedHealthcare, Eden Prairie, MN / Atlanta, GA

Sr Data Architect / Sr. Database Engineer / Business Intelligence Reports Consultant

Worked on a US Department of (VA) Veterans Affairs project that enables to secure a third party to provide Benefit and Claim Administration Services for a (CCN) Community Care Network of providers that serve the Veterans. As part of the solution, Optum (United Healthcare Group) provides a Veteran Portal, Veteran Affairs Staff Portal and a Provider Portal landing page (with links to PGBA - Palmetto Government Benefits Administrators (TRICARE), CVS Pharmacy Claims and LHI - Logistics Health Incorporated for Provider Services).

- Created Data Sources for Professional, Institutional, Dental and Pharmacy claims from various major benefits administrators such as PGBA - Palmetto Government Benefits Administrators (TRICARE), LHI - Logistics Health Incorporated for Provider Services (UnitedHealthcare Group Company), CVS Pharmacy Claims and OHI - Other Health Information. Stars Cotivity extract AP / ReAP CostPoint
- Designed and Created data source for 837 Institutional / Professional / Dental claims ingestion and corresponding 835 Payment/Advice from various benefits administrators using SSIS and Informatica and SQL Server 2014/ Oracle 11g, 12c in the backend.
- Designed and Created Tables, Indexes, Views, Stored Procedures and Ingestion process with strong referential integrity with audit and error logging at every required step.
- Developed Visual Reports, Dashboards and KPI scorecards using Power BI desktop by using DAX and Power Query M language.
- Performed Optimization and Tuning, Backup/Restore, Data Import/Export, Troubleshooting administration task activities on Database Objects.
- Created and Updated Indexes / Covered Indexes and Statistics on tables/indexes/ views and optimized Stored Procedures for efficient execution.
- Gathered and Prepared data for detail and summary level BI reporting and created reports using MS PowerBI / Tableau / SSRS.
- Used different types of visualization such as Stacked Bar Chart, Clustered Bar Chart, Scatter Chart, Pie Chart, Donut Chart, Line & Clustered Column Chart, Map, Slicer etc. in Power BI according to the requirements.
- Developed Tabular Reports, Sub Reports, Matrix Reports, Drill Down Reports and Charts Reports using SQL Server Reporting Services (SSRS)
- Created SSIS packages for Uploading of different formats of files (Excel, Access, dbf) and databases (SQL server, Flat files) into the SQL Server Data Lake using SSIS
- Scheduled Automatic refresh and scheduling refresh in Power BI service.

Mar 2017 – May 2019   Univar, Downers Grove, IL / Norcross, GA

Sr. SQL Server Data Engineer / AWS Data Architect
Scope of the project is to integrate data from various different systems such as ODS/DCS, SalesForce, Lawson financial, EOD and SnF Security into the Dataocean at the staging layer and further preparation for the reporting layer.

- Gathered and Prepared data for detail and summary level **BI reporting** for **PowerBI / Tableau /CRS/ EOD / SSRS**. Used **BCP** to load data files from dat.gz files in AWS and on premise directly into AWS Redshift and SQL Server databases for bulk insert and export. Used AWS **Command Line Interface** (CLI) for efficient file transfer between AWS S3 and on prem.
- Designed, Developed and Deployed Sub-Reports, Cross-tab, Conditional, Drill down reports, Drill through reports and Parameterized reports using SSRS **2014/2016** for inventory levels, inventory aging, sales reporting.

- Performed Database Normalization, De-normalization, Optimization and Tuning, Backup/Restore, Data Import/Export, Troubleshooting, and Database Objects administration task activities.
- Developed Program with Big Data technologies - **Amazon Redshift**, **EMR (Elastic Map Reduce), Spark**, **DynamoDB**, **Python, Oracle**.
- Performed ETL and related activities in Lawson Financial, DCS, SQL Server, AWS Redshift to destination using **SQL Server Integration Services (SSIS), Informatica**, **AWS Lambda Function**, **Python Programming**.
- Exported data from **IBM Mainframe** to **AWS S3** buckets in .txt.gz format to load into SQL Server using **AWS Lambda** using Python script. Archived files from S3 to **AWS Glacier**. Setup the **AWS DynamoDB** for configuration and management of new processes.
- Created **delta logic** and optimized views
- Migrated Code across environment and Scheduling jobs automation **Redwood/Runmyjobs.com** Alerts.
- Advice functional teams on the SQL best practices for coding and performance tuning / optimization to achieve better results.
- Created **AWS Athena Tables** on top of **AWS S3 bucket** data to query directly from the **S3 files** and optimized partitioning & indexing to reduce the query cost.
- Tuned the performance on the complex queries using features such as Actual / Estimated Execution plans, Plan Explorer, **TempDB** techniques, Dynamic management Views (**DMV**) / Dynamic management Functions (**DMF**) in Oracle.
- Reviewed Code, rework the Logic, optimized complex Queries, **Stored Procedures**, **Functions** and analyzed the **root cause** of the **performance issues** and **triggers** effect
- Created and Updated Indexes / Covered Indexes and Statistics on tables/indexes/objects.
- Detected and Cleared **Locking and Blocking** on the database resources and determined the Victim Process as the Root Cause for performance slowdown and implemented corrective and preventive actions (**CAPA**).
- Identified legacy **Views** / **Stored Procedures** across multiple databases that take over a few hours to run in production and optimized queries for performance within seconds.
- Brought down the runtime from hours to minutes and from minutes to seconds in production database system.
- Advised the client and SMEs on the SQL best practices for coding and performance tuning / optimization to achieve better results and assist in setting / meeting higher goals.

Environment: AWS Cloud hosted MS SQL Server 2014/2016, T- SQL, Microsoft SQL Server Integration Services (**SSIS**), Microsoft SQL Server Reporting Services (**SSRS**), Microsoft **SQL Server** Analysis Services (**SSAS**), SQL Server Business Intelligence Development Studio (**BIDS**) 2014, Altassian Suite tools (**Atlassian JIRA**, **Confluence**), Redwood Workload Automation., Oracle 11g, 12c, Amazon Web Services (AWS), AWS Redshift, DynamoDB, AWS Athena, Python, PostgreSQL, WinSCP. AWS S3, Amazon DynamoDB, Amazon CloudWatch, Amazon Redshift, Amazon Lambda, Amazon Athena, Amazon S3 Glacier, Amazon RDS, PostgreSQL

Nov 2014 – Feb 2017   Department of Juvenile Justice, Decatur, GA

Data Warehouse Specialist - Analyst / Developer / Architect

The Scope of the project was to create a **Data Warehouse** for DJJ to empower the decision makers such as Commissioner, Deputy Commissioners, Program Management with the required information to make better informed decisions. Part of the scope also involved the readiness for **Data Warehouse initiative**, including Server Upgrades, **Migration from SQL Server 2000 to SQL Server 2012**, **Code Conversions** and Software Tools Evaluation and Procurement.

- Analyze and document business processes and data flows to identify data sources, transformations, and integration points for the data warehouse.
- Collaborate with the technical team to translate business requirements into data warehouse design specifications, including dimensional data models and ETL (Extract, Transform, Load) workflows.
- Create functional requirements documents, data dictionaries, and data mapping documents to ensure a clear understanding of data elements and their definitions.
- Perform data profiling and data quality analysis to identify data issues and recommend data cleansing and data governance strategies.
- Designed and Developed Data Warehouse and ETLs in an Agile working environment.

- Created Initial Discovery Document for documentation of 'AS-IS' current business processes and 'TO-BE' future business processes along with Process Flow Diagrams / Wire Frames using Visio and online diagram software Draw.io.
- Understood the Functional Requirements and translated into Technical Documents and Data Mapping Document.
- Assisted in Vendor / Tool Identification and Selection based on Business Requirements and User Functionalities. (Tableau, PowerBI, QlikSense, Pyramid Analytics BI Office)
- Designed and Developed the Data Loading Process to ensure the final data in the warehouse meets the Reporting requirements of Granularity, Dimensions and Facts.
- Used BCP to load data files in SQL Server data bases for bulk insert and export from different sources / destinations such as CSV, Excel, Flat Files etc in different formats such as Plain text, Tab-delimited format, XML
- Created Logical & Physical Data Models, Class diagrams and ER diagrams using Erwin Data Modeler and Toad Data Modeler community tool for Data Marts.
- Created SQL Server Agent Alerts to monitor the SQL Server Events and SQL Server Performance Alerts and notify the Administrators of critical situations.
- Designed & Developed ETL Steps, Data Dictionaries, Business Rules, Data Mappings involving Data Analysis, Data Verification, Data Validations, Testing and Data Migrations.
- Modeled Star Schema by creating Logical Tables (Facts and Dimensions) in the Business Model layer. Calculated all the metrics that are needed in reports, setting up KPI's for management
- Created hierarchies and level-based measures based on the Business requirements, created multiple logical table sources, and configured the content levels to enable Aggregate Navigation
- Interacted with various Upstream and Downstream Customers in interfacing various systems for Data Extractions
- Assisted Data Migration team for moving data from a hierarchal environment to a relational database in SQL Server 2012.
- Configured PowerBI Personal Gateway for data refresh into PowerBI service using M Scripting and created PowerBI Service Questions & Answers Dashboards as per the client requirements.
- Performed data cleaning, data validation, and Data Analysis in MS PowerBI using Data Analysis Expressions (DAX), Power Query and Power Pivot.

Jan 2014 – Nov 2014   **Ernst & Young (E&Y), Alpharetta, GA**

T-SQL / SSIS / SSRS Developer
The Scope of the project was to develop a SQL Server based Global CostRate Application is solution developed to automate the calculation of hourly bill rates and cost rates which are required in the resource allocation process and ability to calculate and process direct and shared cost allocations as planned out to the countries/areas. The solution will help to plan certain elements in local currency which will convert to USD using current year planning rates.

- Developed complex T-SQL 2012 code such as Stored Procedures, functions, triggers, Indexes and views for the application.
- Used SQL Profiler to monitor Server performance, debug T-SQL & slow running queries.
- Used Joins, correlated and non-correlated sub-queries for complex business queries involving multiple tables & calculations from different databases and Oracle Linked servers.
- Used SSIS to create ETL packages to Validate, Extract, Transform and Load data to Data Warehouse, Data Mart Databases and generate XML Files to be ingested in Hyperion PFP (Project Financial Planning) and HCP (Human Capital Planning) modules for banding based on cities.
- Created 21 different SSIS package of medium to high complexities for ETL by using Lookup, Fuzzy Lookup, Derived Columns, Condition Split, Term Extraction, Aggregate, Pivot Transformation, and Slowly Changing Dimension tasks in Data Flow Transformations.
- Scheduled Jobs for executing the stored SSIS packages developed to update the database on Daily basis using Control-M Workload Automation Tool
- Designed, Developed and Deployed reports in MS SQL Server 2012 environment using SSRS.
- Responsible for Monitoring and Tuning Report performance.
- Configured the report viewing security for various users at various levels using Report Manager.

Environment: MS SQL Server 2012, T- SQL, PowerPivot, MS Excel 2010/2007, Microsoft SQL Server Integration Services (SSIS), Microsoft SQL Server Reporting Services (SSRS), Microsoft SQL Server Analysis Services (SSAS) SQL Server Business Intelligence Development Studio (BIDS) 2010, Team Foundation Server (TFS).

Aug 2012 – Dec 2013   JP Morgan Chase, Jersey City, NJ

SQL / SSRS / SSIS / SSAS Developer

Scope of the project is to improve and enhance the support of Oracle database technology on behalf of JPMC's various Lines of Business (LoB's). The project spans the areas of Insurance Claims, Deficiency Claims, Collateral Insurances, Property Agents and Investors information, Property and outstanding Loans.

- Perform all SDLC phases related to extract, transform, and load (ETL) processes using SQL Server Integration Services (SSIS) and SQL Server T-SQL stored procedures within SQL Server 2012 environment.
- Hands on SQL Application, Administration, and Monitoring for a variety of core applications.
- Developed various T-SQL objects such as Functions, Tables, Views, Triggers, Indexes, Constraints and created Dynamic and Static Stored Procedures and Queries to develop Decision Engine.
- Developed User Defined Functions for giving Scores and views for the application.
- Developed, monitored and deployed SSIS packages for Dynamic ETL flow to validate, extract, transform and load data into database.
- Performed Full load & Incremental load with several Dataflow tasks and Control Flow Tasks using SSIS.
- Created **Position and Transaction OLAP Cubes** for mortgages Loans for various measure groups and dimensions (Loan Position, Commitment Schedule , Loan Journal Entry, Loan journal Entry Period Zero, Time Period, Loan , Account, Portfolio, Property, Business Unit, Borrower , Journal Entry Demographic , Journal Entry Line Item etc.) to address the business needs using SSAS
- Maintained Batch logging, Error logging tables and handled errors using Event handlers.
- Created SSIS package to Export and Import data from Oracle and SQL Server to Access, Text and Excel files and Configured SQL mail agent for sending automatic mails.
- Configured Connection Manager files for SSIS packages to dynamically execute on Quality Analysis server and Production server.
- Developed Parameterized, Drill-through, and Drill-down Reports to get monthly customers account details and profits using SSRS.
- Involved in deploying, configuring and managing reports using Report Manager and Report Builder.
- Formatted the reports using the Global variables and expressions.
- Reviewed and fine-tuned stored procedures and triggers before production migration.
- Improved Performance by creating Clustered and Non-clustered Indexes and by optimizing the T-SQL statements using SQL profiler.

Environment: MS SQL Server 2012, T- SQL, PowerPivot, MS Excel 2007/2003, Microsoft SQL Server Integration Services (SSIS), Microsoft SQL Server Reporting Services (SSRS), Microsoft SQL Server Analysis Services (SSAS), SQL Server Business Intelligence Development Studio, Team Foundation Server (TFS),Visual Source Safe (VSS), ERwin 8.0/MS Visio 2010, Oracle 9i

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Mar 2011 – Jul 2012   Express Scripts Inc, Lincoln Park, NJ / Raymond James/ CountrywideLoans

SQL / SSRS / SSIS / SSAS Developer

- Involved in Designing, Developing and Testing of the ETL (Extract, Transformation and Load) strategy to populate the data from various source systems feeds using SSIS.
- Responsible for coding SSIS processes to import data into the Data Warehouse from Excel Spreadsheet, Flat Files and OLEDB Sources.
- Performed Data cleansing by creating tables to eliminate the dirty data using SSIS.
- Involved in performing incremental loads while transferring the data OLTP to data warehouse using different data flow and control flow tasks in SSIS.
- Used various transformations like Multicast, Conditional split, OLEDB Command, Script Component and Lookup while loading the data into Destination.
- Use ETL to implement the slowly changing Transformation, to maintain Historical Data in Data warehouse.
- Created packages in SSIS with error handling
- Worked with different methods of logging in SSIS.
- Designed & Supported daily, weekly, monthly batch processes using SQL Server Agent.
- Responsible for creating database objects like table, views, Store Procedure, Triggers , Functions etc. using T-SQL to provide structure to store data and to maintain database efficiently.

- Extensively used joins and sub queries to simplify complex queries involving multiple tables.
- Optimized the performance of queries with modification in TSQL queries, removed unnecessary columns, eliminated redundant and inconsistent data, normalized table ,established joins and created Clustered, Non-Clustered indexes whenever necessary.
- Generated various kinds of reports such as Patient History, Physical Examination Report, Consultation, Operative, Radiology, Pathology, Laboratory, Emergency reports and complex SOAP (Subjective, Objective, Assessment, and Plan) reports using SSRS 2008R2 from SQL Server 2008R2 Database (OLTP) and SQL Server Analysis Services (OLAP) and included various reporting features such as group by, drilldowns, drill through, sub-reports, navigation reports (Hyperlink) etc.
- Created different Parameterized Reports which consist of report criteria in various reports to minimize the report execution time and to limit the number of records required.
- Created Subscription of reports in different formats like pdf, excel etc. to be executed automatically on daily, weekly and monthly basis.
- Deployed and configured the reports in the Report Server.
- Created **Claims and Enrolment OLAP Cubes** for various measure groups and dimensions for analysis of Per Member/Per Month cost to meet the business answers for the client needs using SSAS
- Designing and implementing dimensional data structure like star and snowflake schemas and virtual fact tables and constructing the dimensional hierarchies, calculated members and measures, actions and MDX using SSAS based on the OLAP reporting needs.
- Created calculated fields with MDX code to meet additional measure needs that are calculated from existing measures.
- Involved in identifying and creating Data Sources and Data Source Views (DSV) in SSAS.
- Involved in creating relationships and hierarchies between attributes and measure groups and defined granularity within the measure group and drill through action using SSAS.
- Created and managed users, roles and groups and handled cube security.
- Designed and Developed efficient SSIS packages for processing fact and dimension tables with complex transformation as well as done with dynamic creation yearly partition and processing cube using SSIS package.
- Designed dynamic creation, yearly partition and processing cube based on adjustment occurring using SSIS package for improvement in performance while browsing the data from cube.
- Designed, developed, created and tested Excel Pivot Table / Power Pivot reports based on OLAP cubes and offline cube files for business analysts.
- Provided documentation about database /data warehouse structures and updated functional specification and technical design documents for cubes, reports and SSIS Packages.

Environment: MS SQL Server 2008R2, T- SQL, MS Excel 2010/2007/2003, PowerPivot, Microsoft SQL Server Integration Services (SSIS) 2008R2, Microsoft SQL Server Reporting Services (SSRS) 2008R2, Microsoft SQL Server Analysis Services (SSAS) 2008R2, SQL Server Business Intelligence Development Studio, StarTeam Version Control tool), Erwin 8.0/MS Visio 2010, Oracle 9i

Henry B. Stinson
Senior Database Developer
Availability: 2 Weeks from Award Date or Date of Offer

PROFESSIONAL SUMMARY

Senior Database Developer with expertise in SQL Server, SSIS, SSRS and PowerShell. 20+ years of experience in database development, SQL optimization, design, stored procedures, ETLs for MS SQL Server, Oracle & Sybase ASE. Expert in writing and optimizing complex stored procedures and optimizing ETL processes. Expert in T-SQL, PL/SQL, SSIS, SSRS, Powershell, regex, relational database design, dimensional modeling. Skills also include AWS, VBA, VB6, VB.Net, Bash, UNIX korn shell, awk, Visio, Agile, Lucid Charts, Confluence, Jira, documentation. Source control systems used: Git, Bitbucket, Team Foundation Server, Visual SourceSafe (VSS), Subversion Third party tools: Erwin, Redgate SQL Compare and Data Compare, Microsoft SCCM, DbaaS, Azure Pack RDBMS's: MS SQL Server (through 2016), Oracle (8i, 9i, 10g & 11g RAC, ExxaData), Sybase ASE 16.

- 20+ years in IT – now specializing in relational and dimensional database systems, ETLs and reporting
- 20+ years relational database development & design (normalization, indexes, constraints, triggers), writing and optimizing SQL queries and stored procedures, ETLs, reports,
- 9 + years Oracle (through 11g) PL/SQL | 15 years MS SQL Server, 5 years SSIS, 3 years SSRS, 2 years Powershell, 2 years UNIX, 2.5 years Sybase (up to Sybase ASE 16)

EDUCATION

B.S. Electronics & Computer Engineering George Mason University, Fairfax, VA

WORK EXPERIENCE

Sept 2022 – Nov 2023   **Synchrony Bank, Allegro Credit Division,**

Senior Database Developer.

- Responsible for Database production support, QA support and mentoring as part of the IT Ops team and also in a project to convert slow batch applications for payment processing, FC, GL and other accounting transactions and reports to T-SQL stored procedures – usually improving performance from 1-3 hours to a few minutes (e.g. 2-6).
- Mentored new QA team members in T-SQL and Excel reporting. Confluence, Jira, Lucid charts, MS Teams, SSMS, SQL Server 2019, AWS databases, VB6, GitBucket, Bash.

Nov 2020 – Nov 2021   **Bank of America – Richardson, TX**

Senior SQL Database Developer / DB Engineer

- Production Support: As part of the DBA/ADS Tools Team, monitored SQL Server and Oracle production databases around the world using Guardium.
- Core responsibilities were writing and optimizing complex T-SQL and PL/SQL stored procedures, SSRS & Tableau reports, SSIS ETLs, Powershell processes, Unix/Linux shell scripting.

May 2019 – Nov 2020   **BNSF/Solomon Associates – Fort Worth, TX**

<u>**Senior SQL Database Developer -**</u> **Positive Train Control (PTC) System**

- Writing and optimizing stored procedures and SQL Server 2016 and writing T-SQL scripts for deployment.
- Analyzing complex stored procedures to eliminate timeouts or locking, or to recommend indexes.
- Used TFS, Visual Studio, SSIS, SQL Agent, Redgate Tools, Powershell.
- For Solomon was responsible for Updating, Repairing and Optimizing SQL Server 2017 T-SQL stored procedures and Excel VBA code to load Oil and Gas Industry analysis data into a reporting database and then to an MS SQL database, which will be used by a Power BI data analysis application which is marketed to Oil and Gas companies.
- Documenting the data-loading and -validation steps in the whole process and writing a GUI app to allow safe and robust execution of those steps. Basically, this is a complex, multi-step, multi-phase ETL.

FEB 2018 – JAN 2019   **Capital One – Tysons Corner, VA**

<u>**Senior SQL Database Developer**</u>

- As part of team to migrate data for retail investments business to E*Trade, designed and created tables, stored procedures and views to export financial and investment portfolio data files.
- Performed data mapping; designed tables for the ETL processes; wrote and optimized SQL scripts to validate data, journal securities and balances, and automate testing of delta versioning of certain export files.
- As a senior SQL developer worked on SQL optimization, regex and Powershell. Used full Agile, AquaData Studio, JIRA, Confluence, Slack, GITHUB and T-SQL on AWS Sybase ASE 16 and Oracle 12C databases. Wrote BASH scripts for Linux and GoLang Lambda apps on AWS. Reviewed Python scripts for completeness and accuracy.

MAR 2017 – JAN 2018   **BANK of AMERICA, DFW, TX**

<u>**Database Engineer**</u>

- As member of the of **Database Engineering Team**, wrote Powershell and T-SQL scripts to scan SQL Server 2014 servers around the world for security and policy compliance, based on enterprise policy-based management (PBM).
- Wrote and optimized complex stored procedures. Wrote DDL to create tables, indexes and constraints. Used SSIS, SSRS, TFS, Visual Studio 2015.
- Wrote PowerShell scripts for DbaaS and SCCM db monitoring using Azure Pack and Powershell Runbooks. Created, optimized and managed SQL Agent jobs.
- Database Design: designed new tables, indexes, constraints, stored procedures and ETLs for the PBM database.

MAR 2016 – NOV 2016   **HUMANA – LOUISVILLE, KY,**

<u>**SQL Team Lead**</u>

- Review, correct and optimize SQL Server 2012 stored procedures and SSIS packages for multi-state health insurance systems (very large SQL Server and Oracle databases).
- Designed new ETL processes, deploying database structure and data changes a Tricare db and EDW on the government side using Redgate tools.
- Create documentation, including data mapping, data contracts, ERDs.

JUL 2015 – MAR 2016   **FRONTIER COMMUNICATIONS, TX & RDX DBA – PITTSBURGH, PA,**

Senior Database Developer

- Wrote, optimized and re-architected DBA scripts in PowerShell, Bash (Linux or Unix) and SQL to remotely monitor MS SQL Server and Oracle databases for security, performance, file-space and other issues, through SolarWinds remote monitoring system.
- Wrote, optimized or re-architected SSIS ETLs using PL/SQL stored procedures, from Verizon to Frontier massively large Oracle RS12 database using Informatica.
- Wrote, troubleshooted and fixed deadlocking or slow stored procedures and worked on SSIS ETLs.

JUN 2012 – JUN 2015   **VERIZON/ ALLEGUS/ BORGWARNER/ LASALLE GROUP**

Senior Database Developer/ DBA

- Wrote, optimized or re-architected SSIS / SQL ETLs for EDW and datamarts (dimensional and relational) containing medical data gathered from around the world and used for medical research. Troubleshooted and fixed deadlocking and slow stored procedures.
- DBA: At Borg Warner, analyzed security and structure in databases, set up missing backups, created missing indexes, , PKs and FK constraints in 3 SQL databases. Redesigned and optimized stored procedures, SSIS packages and SSRS reports. Cleaned out old or orphaned logins and reduced elevated permissions where violated database security norms.
- Designed and created a new SQL Server 2012 database for a new manufacturing line. Wrote and optimized stored procedures. Stripped out or archived old data copied from other databases. Wrote ETL SQL scripts to transfer and merge data from two other databases into the new one, modifying and cleansing data as needed.
- Wrote and optimized stored procedures (SQL Server 2008 R2). Refactored and optimized SSIS packages, including VB.Net and C# code.
- Moved SSIS solutions to TFS (Team Foundation Server) from VCS. Wrote PowerShell scripts to generate SQL scripts for all databases to put into TFS, and generated SQL scripts using VS2010 database solutions.
- Wrote MS Access applications to report data quality problems. Wrote PowerShell scripts to parse a variety of files, including postscript, XML, text. Replaced old, slow XML processes with pure, set-based SQL in SSIS ETLs.
- At Verizon, wrote and modified stored procedures (Oracle 10g & 11g RAC), SQL scripts and UNIX Korn shell scripts (using Regexp, awk, grep, sed, etc) for large, complex ETLs for network provisioning. Gathered data from several databases into a massively large database for Verizon's national broadband network (coalesced from UUNET, MCI and Worldcom predecesors).
- Used SQL and Regex find best matches for data repair & cleanup, de-duping, etc.

MAY 2011 – JUL 2011   **SOUTHWEST AIRLINES & MARKETWIRE.COM - Dallas, TX,**

Database Developer

- Supported programmers by writing, correcting and optimizing stored procedures in a large, complex SQL Server 2008 R2 database.
- Wrote and maintained ETLs and reports that use T-SQL stored procedures, SSIS and SQL Agent. Environment: SQL Server 2008 R2, SS Management Studio, SSIS, Visual Studio 2005, 2008 & 2010, Perfmon, Rally CM, Notepad++, MS Access, Excel, Microsoft Team Foundation Server (TFS) for version control and build control.

- Revise multi-tier, object-oriented, flight attendant bid-award software: Oracle 10-11g, VB6, COM+, DCOM, Visio. Gathered requirements; analyzed existing software to list required changes to VB6 code and stored procedures for the offshore company (HCL in India) to whom the actual coding was outsourced.
- Wrote VB6 and taught coding standards; cleaned up a lot VB6 code: inserted Option Explicit, corrected coding errors, added Hungarian notation including prefixes to indicate variable scope, and inserted intelligent error-trapping and reporting in all class methods so that if the offshore team ran into runtime errors, they would be able to find and fix them more quickly.
- Wrote Access application to track planned changes.

OCT 2009 – APR 2011   **INVESCO/ BODE TECHNOLOGIES (DNA Company) - Lorton, VA**

<u>Database Developer</u>

- Fixed and optimized DNA lab sample-tracking software, including very complex stored procedures: VB6 & SQL Server 2005, 2008. Repaired simple ASP.net web application for DNA tracking using SQL Server 2005 & 2008 R2, SSIS, C#.
- Wrote SSIS ETLs. Wrote a C# utility to scan RFID tags and log them into a SQL Server database. Created or repaired several data utilities in Excel: optimized or modified MS Access reporting applications.
- Fixed extensive programming errors in VB6 code.
- Optimized and re-architected several nightly ETLs (data for almost 1 $ trillion in securities holdings incoming from subdivisions, plus an ETL processing hundreds of thousands of dollars in trades daily to the Swift trading system). Wrote or optimized Sybase and Oracle stored procedures, & designed new, shared staging, cleanup and exception tables to speed up the ETLs. Wrote Crystal Reports for the Data Management Team to suddenly see data problems they'd had for years. Optimized the overnight trading ETL from running all night to about 30 minutes. Wrote or updated extensive documentation including Visio diagrams. Sybase ASE 15 and MS SQL Server 2005 & 2008, Autosys JIL scripts, UNIX Korn shell scripts and Crystal Reports (CMC, InfoView), Visio, Remedy, & Embarcadero.

AUG 2003 – FEB 2009   **BELL HELICOPTER - Hurst, TX & CC PACE, Fairfax, VA**

<u>Database Systems Analyst</u>

- Wrote data validation reports and ETLs using Oracle (8i, 9i, 10g, 11g), MS SQL Server 2005 & 2008, SSIS, VB6, Crystal Reports, MS Access, VB6, VB.Net, and C#.
- Interfaced with 300GB Primavera (P6) EVM (earned value management) Oracle databases.
- Wrote and optimized complex stored procedures in PL/SQL and MS SQL Server including hierarchical EVMS data 10 levels deep. Optimized MS Access application from 5 hours to 15 minutes.
- Wrote VB6 service application to unlock Primavera users on Citrix.
- Wrote other applications using C#, ADO.Net, Entity Framework. Wrote and reviewed C# code.
- Wrote data quality audit utility for Primavera databases (Oracle and SQL Server), which solved major blocks on a $12 million EVMS contract.
- Wrote coding guidelines to increase software maintainability, robustness and reliability. Implemented Wrote and documented data interfaces for a mortgage LOS (loan origination system) using Data Junction 7.5, VB6 and VB.NET and MS SQL Server 2000.
- Designed database logical model using Visio. Wrote requirements specifications and test plans. Rewrote major parts of a large, complex, client-server, object-oriented VB6 financial services application built using over 80 custom user controls. More than doubled performance in parts of the application and uncovered memory leaks. Wrote documentation for code optimization techniques.
- **Used** MS SQL Server 2000, TSQL stored procedures, VB6, COM+, OO, 3-tier, custom controls, ADO, OLEDB, Data Designer, Data Provider, Bugzilla defect tracker

1986 – 2003   **Worked with Large Government & Commercial Organizations including the following: US State Department, USAID, Freddie Mac, Fannie Mae, AT&T, GEIS, EXXON Mobil, CSC, GEICO, Convergent Communications etc..**

- **GTE:** Imaging and document management VB application
- **USAID-** Developed USAID Congressional budget application (VB4, Oracle). Designed database using Erwin, Database Naming Conventions
- **Freddie Mac -** Built financial/mortgage software applications and reports in VB. Trained & Mentored junior VB programmers. Promoted VB coding standards and instituted use of version control system at team level. Tools: VB 4.0 (Professional and Enterprise Editions), vsView, Source Safe, SQL Sombrero, Sybase and Oracle
- **GE Information Systems –** Wrote VB application to copy document imaging files and to create an index to a CD jukebox system
- **Fannie Mae -** Built prototype (in VB) for possible new Windows based national mortgage software application. Designed and built SQL Server database and populated with test data
- **AT&T FTS 2000 Customer Service Project –** Built data conversion and migration app. (C language and Teradata) Implemented source control using PVCS
- **Ogden/ERC –** Wrote feasibility study, requirements and built C program for EPA
- **Cable & Wireless -** Wrote 300-page ops manual for telecom switches. Redesigned software development process from two-week to three-day turnaround

USI – 1992   Built a prototype imaging application in Visual Basic version 2 (in conjunction with an imaging API (DLL), to read scanned images (files) of IRS 1040 paper forms from a UNIX server, to perform OCR and to store the information into a database. Allowed operators to view and manually correct text fields which the OCR software flagged as "unsure"

LOGICON - Reston, VA, 1990 – 1991 - Wrote information system applications in C, C++, and Oracle. DOD secret clearance (now inactive)

Various Programming Jobs, 1986 – 1990 in Turbo Pascal & C

EDUCATION - George Mason University, Fairfax, VA (GMU.edu)

BSECE (Electronics and Computer Engineering), 1988, **3.65 GPA** (3.72 in major). (EE degree with computer science and computer architecture added) Designed two 8-bit computers using TTL logic and off-the-shelf 8-bit ALU; built one of them. Senior Project was a Turbo Pascal program to draw and run Petri Net diagrams.