**RAVI NEUPANE**

**Professional Experience:**

7+ years of experience in Data modeling, Database Design, Programming, Development and Implementation of Client-Server Applications & Database Systems using **MS SQL Server 2014/2012/2008/2005**.

* Extensive experience in using **Microsoft BI Studio** products for implementation of **ETL methodology** in data extraction, transformation and loading
* Expert in data warehouse development starting from inception to implementation and ongoing support, strong understanding of **BI application design and development** principles using **Normalization** and **De-Normalization** techniques
* Generated complex **Transact SQL(T-SQL) queries, Sub queries, Co-related sub queries,** and **Dynamic SQL queries**. Programming in SQL Server - Using the S**tored Procedures, Triggers, User-defined functions and Views, Common table expressions (CTEs)**
* Involved in heavy stored procedures, Audit triggers views, creating SQL scripts for data loads and upgrades for **Data Migrations and Data Validations**
* Proficient in **Performance Tuning/Query optimization** using indexes
* Tuning the performance of stored procedures and large T-SQL Queries using **Clustered Indexes**, efficient coding standards
* Involved in Backing up databases and refreshing Data across environments
* Huge Data transfers from & to SQL Server Databases using utilities/ tools such as**DTS, SSIS, BCP, and Bulk Insert**
* Experienced in whole cycle of **DTS/SQL Server Integration services** Packages (**Developing, Deploying, Scheduling, Troubleshooting and monitoring**) for performing Data transfers and ETL purposes across different servers.
* Involved in usage of various SSIS components such as**For loop, For-eachloop, Fuzzy lookup, Variables, and Error Handling**
* Experienced in creating master and child packages, **Package Configurations** and **Logging** Using **SSIS**.
* Excellent knowledge of using V**ariables** and E**xpressions** in packages of **SSIS**.
* Worked with **Flat file, Excel file**, and SQL server **OLEDB destinations** for loading data.
* Involved in handling Enterprise wide reporting needs using **SQL Reporting Services**, Crystal Reports.
* Creating large enterprise reports, sub reports using charts, report parameters, dropdowns and images using **SSRS 2008/2000/2005.**
* Expert in designing reports using **SQL Server Reporting Services** (**SSRS2000/2005**), operating and troubleshooting with data sources.
* Expert in developing and deploying **Cascading Parameterized**, **Drilldown**, Adhoc reports linking with sub reports in various file formats with respect to clients’ requirement.
* Experienced in writing Queries using SQL Server Analysis Services (**SSAS**).
* Created and Configured Data Source &**Data Source Views, Dimensions, Cubes, Measures, Partitions**.
* Vital Knowledge in OLAP Storage modes such as **ROLAP/MOLAP/HOLAP**
* Hands on experience in Creating **Star Schema** and **Snow Flake** Schemas.
* A **well-organized, goal-oriented, highly motivated** and **effective team player with excellent analytical, troubleshooting, and problem solving Skills.**
* Excellent **Verbal & Written Communication** skills and strong in **Documentation**.
* **Flexible, enthusiastic** and **project oriented** with excellent **communication and leadership skills** to develop creative solution for challenging client needs.

Technical Skills:

|  |  |
| --- | --- |
| Databases: | MS SQL Server 2000/2005/2008/2012/2014, MS Access 97/2000/2003, Share Point |
| ETL Tools: | SSBI Development Studio, SSIS, SSRS, SSAS, Data Transformation Services (DTS), Import/ export wizard, Bulk Insert, BCP |
| Reporting Tools: | SQL Server Reporting Services (SSRS), Report Builder, Crystal Reports, Excel |
| Database Tools: | BIDS 2008/2005,Management studio, SQL Profiler, SQL Query Analyzer, Performance Monitor |
| Languages: | T-SQL, MDX, C, C++, Java, VB, HTML, XML, Python |
| Operating Systems: | WINDOWS 2008/2003/2000/NT Servers |
| Other Tools: | MS Office Suite, Adobe Suite, Visual Studio, ER-Win, TFS |

**Work Experience:**

**Houston Methodist Hospital, Houston, TX July 2015 – present**

**SQL Server/ETL Developer/BI Analyst**

Houston Methodist Hospital is one of the leading medical service providers in heart care, cancer, neurology and neurosurgery. This project was mainly focused on managing the database for medical services providers in a centralized manner which could be easily accessed to the end users. As a part of the SQL/BI Developer/Analyst team, I was involved in gathering and managing data from six hospitals around Houston and loading current and active data in a centralized dataset while maintaining historical records.

**Environment:**

SQL Server 2008 R2/2012, MS SSIS, SSRS, SSAS, Tableau, Excel, SAP Crystal reports, MS Visio, Windows 7, MS Office, MS Visual Source Safe.

**Responsibilities:**

* **Installed** SQL Server 2012 with latest Service pack and established connectivity with the database created, configured and maintained database maintenance plans.
* Created **T-SQL queries**, **stored procedures, triggers, views, Indexes, Constraints** and **user defined functions (UDFs**) on various database objects to create, modify and/or maintain databases.
* Maintained **Data Integrity** by implementing different types of **constraints** on tables.
* Creating and Modifying **T-SQL Stored Procedures** for validating the integrity.
* Maintained **data integrity** by performing validation checks.
* **Monitored performance** and optimize SQL queries for **maximum efficiency**.
* Used **SQL Profiler and Database Tuning Advisor** for troubleshooting, monitoring, optimizing SQL Server and T-SQL statements from developers and testers and also created SQL scripts for tuning and scheduling.
* Involved in Error Handling using **Try/catch Block.**
* **Migrated** SQL server 2008 R2 packages to SQL Server 2012 SSIS packages using SQL Server 2012 Upgrade Advisor.
* Created packages with different Control Flow options and Data Flow Transformations such as **Conditional Split, Multicast, Pivot, Union All** etc.
* Experience in creating complex SSIS Packages with error handling using control and dataflow elements.
* Scheduling **SSIS** packages and Jobs.
* Configured **Dynamic Checkpoints** to allow rerunning a package from the point of failure.
* Implemented **Event Handlers, Error Handling and Logging** for the packages as per the requirements.
* Created, Tested and **Deployed** SSIS Packages for Data Migration into Fact and dimension tables in the **data marts from the source data warehouse tables**.
* Designed and Built Cubes with multiple fact measures groups, and multiple dimension hierarchies based on the **OLAP reporting** needs using SQL Server Analysis Services (SSAS).
* Optimized the **query performance on cube** by following the recommended best practices.
* Designed and developed various reports containing **data analytics and visualization with reporting tools such as SSRS, Excel Pivot tables, and Tableau on SSAS Cubes and data warehouses as the data sources.**
* **Developed ad-hoc queries using SSAS cubes, data warehouses and data marts as data sources.**
* Worked in configuration of report server and report manager scheduling, give permissions to different level of users in SQL Server Reporting Services (**SSRS**)
* Worked on **dimensional modeling, creating cached reports, drill-down reports, linked reports, report snapshots, parameterized reports** and report optimization
* Documentation of all the processes involved in maintaining the database for future reference.
* Actively involved in identifying business requirements with the client

**Revenue Solution Inc., Harrisburg, PA January 2014 –June 2015SQL Server /SSRS Developer**

RSI’s mission is to assists government agencies meet their business objectives of improving customer service, maximizing collections and increasing tax compliance using information technologies. RSI is one of the largest organizations of its kind dedicated exclusively to tax, labor and child support agencies. My role as a SQL database developer was to team up for developing Data Warehouse on various domains critically important for the company. The role also involved working with BI team in developing reports according to company requirements.

**Environment:**

MSSQL Server 2012/2008/2005, Visual Studio 2010/2005, Reporting Services (SSRS 2008/2005/2000), Business Intelligence Development Studio (BIDS), MS Office 2007, MS Access, ETL, Performance Point Server 2007, MS Excel.

**Responsibilities:**

* Analyzing the Source Database servers, **data profiling** and generating **Database ER Diagrams**.
* Creating a Data model for a centralized data warehouse using **ERWIN** and **Microsoft VIZIO**.
* Generating **T-SQL Scripts** to Create Schemas, Tables and Views for the Centralized Data Warehouse.
* Using **Import/Export Wizard** to generate **SSIS packages** that migrate data from various sources to a Staging database.
* Creating a **Dynamic Stored Procedure** using **MERGE Statements** to incrementally load data from multiple database servers to the centralized data warehouse.
* Rationalizing the existing SSIS Packages and other ETL processes to improve performance and maintain data quality.
* Cleaning up data within the other relational database systems and generating new Report Models to improve user interactivity and selectivity.
* Preparing **SSIS Package Models** to extract data from the source systems and load it into the new Data warehouse.
* Designing a **Data Load Orchestration** process that handles sequential data load, error handling, failure notification and automation effectively.
* Designing Tables, **SSIS Packages, Stored Procedures, Functions and Views** to deliver snapshots of Report data every once in month to the respective Business user’s team.
* Developing new **SSRS Reports** for Back Office Users and integrating those with the company’s SharePoint server.
* Designing new ETL Processes with **Complex Stored Procedures** and **Tables valued Functions** to generate dynamic Ad-Hoc Reports related to Employee Benefits and Vacation Hours for Human Resource Department.
* Designing SSIS Packages with **For Each Loop Containers, Script Tasks and Precedence Constraints** for dynamic data load from various store **Point of Sales Systems** to a central Above-store Database.
* Preparing SSRS Reports with Report subscriptions and Email Delivery mechanisms through SQL Scripts that run on Report Server Databases.
* Developing an automated testing process that validates data between the source and target systems and generates reports on the same.
* Providing Production support to monitor SQL Agent Jobs, Report Deliveries, ETL issues and technical Change Requests.
* Handling weekly Client meetings for Report Demos, new business requirements, feedbacks on existing Services and suggestions on innovative techniques.
* Worked on Micro-Strategy reports and Dashboards Development with basic documents, filters, Attributes and Metrics.

**Barclays Capital, Whippany, NJ June 2012- December 2013**

**SQL Server /BI Developer**

Barclay Capital is a leading global British investment bank. Barclays Capital provides financing and risk Management services to larger companies, institutions, and government clients. It is a primary dealer in U.S. Treasury securities and various European Government bonds.

**Environment:**

SQL Server 2008, 2008R2,2012, SQL Server Management Studio, SQL Server Business Intelligence Studio, Visual Studio 2010

**Responsibilities:**

* Created ETL packages with different data sources (SQL Server, Flat Files, Excel source files, XML files etc.) and then loaded the data into destination tables by performing different kinds of transformations using SSIS packages.
* Developed the packages with monitoring features and logging so that audit information of the packages and their execution results are loaded in to the audit table.
* Performed incremental data load packages in SSIS.
* Created database maintenance planner for the performance of SQL Server, which covers Database integrity checks and re-indexing. Dynamically supported business users for given requirements and developed the reports accordingly.
* Created reports using table control, matrix control.
* Wrote queries to generate reports for analysis of data using SQL Server Reporting Services, Report Builder.
* Designed and created Report templates, bar graphs and pie charts based on the financial data.
* Extensively used SQL Reporting Services and Report Builder Model to generate custom reports.
* Developed various T-SQL stored procedures, triggers, views.
* Worked to improve the Performance tuning on the Stored Procedures.
* Worked on HORIZONTAL SCALABILITY by dividing the data into different databases mainly to improve the data security and performance purposes.
* Migrated the existing data to all the Client databases created by using HORIZONTAL SCALABILITY

**BBVA Compass Bank, Birmingham, AL August 2011 – May 2012**

**SQL Server Developer/SSRS**

BBVA Compass is a leading U.S. banking franchise with operations throughout the Sunbelt region and it ranks among the top 25 largest U.S. commercial banks based on deposit market share. And it has been recognized as one of the nation's leading Small Business Administration (SBA) lenders. As a part of Mortgage RESL Reporting project, I was involved in migration of reports from SSRS2005 TO SSRS2008 report servers, creating, deploying and maintaining those reports.

**Environment:**

SQL Server 2005, 2008, 2012, Visual Studio 2010, SSIS, SSRS, TFS, SQL Server Profiler, T-SQL, XML, XSLT, Windows 7

**Responsibilities:**

* Involved in architecture of the new database schema.
* Data migration from the old schema to a new schema.
* Developed various reports which include drill down reports, drill through repots, cascaded parameterized reports, matrix reports using SSRS in **share point integrated mode**.
* Worked on querying the data and creating-on demand reports using **Report Builder** in SSRS and also responsible to set up report subscriptions and deploy them to share point server.
* Worked in the conversion and migration of crystal reports to re-design those using **SQL Server Reporting Services**.
* Responsible in providing prompt and highly efficient support of on demand requests to the QA testing and UAT testing in an agile methodology environment.
* Created SSIS packages for loading data from **Flat Files** (.txt) to staging and Production tables.
* Designed and Developed **SSIS Packages** using various Control Flow and Data Flow items to Transform and Load the Data using **SQL Server Integration Services (SSIS).**
* Scheduling and maintaining SSIS Packages and batch jobs thru **SQL Server Agent** on a weekly basis.
* Experience in configuring **package logging, error logging** and **event handling** to redirect error rows and fix the errors in SSIS.
* Wrote XSLT in order to convert source XML files.
* Created packages to load data from XML source to OLEDB destination.
* Involved in meeting with Data Stewards to identify and document the stewardship process.
* Converted various SQL statements into stored procedures thereby reducing the number of database accesses (since Stored Procedures passes the whole block at one time).
* Assisted other developers with creating of packages.
* Used **SSIS** to create **ETL packages** (**.dtsx** files) to validate, extract, transform and load data.
* Analyzed ETL Process to identify data files and also created documentation.
* Worked on **SSIS script task**, look up transformations and data flow tasks using T- SQL and Visual Basic (VB) scripts.
* Tuned SQL statements and Stored Procedures and converted various SQL statements into stored procedures thereby reducing the number of database accesses (since Stored Procedures passes the whole block at one time).
* Used SQL server **profiler** in performance turning.
* Worked on **indexing** various tables to improve performance of stored procedures.

**State Farm Insurance, Bloomington, IL September 2010– July 2011SQL Server Developer/SSRS**

State Farm is one of the largest insurer in United States. It provides various products such as Auto, Home, Life, Business Insurance, Retirement, Investment, and Banking Services. The project was designed to develop a productive Reporting Services and Integration Services awaking the company into Customer Relation with the help of effective data management system in data warehouse environment. The project was to create drill down reports with parameters using global functions and variables and creating report on basis of the requirement.

**Environment:**

SQL Server 2005, 2008, SQL Visual Studio 2010, Business Intelligence Development Studio (SSIS, SSRS), MS Office 2010, MS Visio 2010.

**Responsibilities:**

* Analyzed the **User Stories** and **Functional Documents** written by the Systems Analyst and Project Manager regarding the functionality requirements of each and every module of the **Application**.
* Wrote complex stored procedures in **T-SQL**, including writing new procedures from scratch, and rewriting procedures along with the **Quality Review** of existing procedures as part of **Systems Migration/Conversion** projects.
* Worked very closely with **.Net Developers** to provide them with the **Stored Procedures** they could use in the **Server Side** or the **Database Tier** of the **3 Tier Architecture** application developments.
* Learned complex **Business Rules**, and wrote queries to implement those rules in the application. Also Coordinate and communicate **Cross-Functional Activities** of the **Application Modules** between Developers.
* Present ideas for **Development Improvements** and implementation of the Business Rules in the application.
* Analyzed the existing **SQL Construction** and **Formatting Standards,** followed the convention while also improving where necessary.
* Regularly interacted with Project Manager and System Analyst to make sure **Database Solutions** are available, precise, according to **Business Requirements**.
* Worked with **Memory Optimized Tables** introduced by **SQL Server 2014**which is optimized for **OLTP Workloads**. Also wrote **Natively Compiled Stored Procedures**.
* Used **SQL Server Profiler** to analyze the **Database Call** from the application for troubleshooting purposes.
* Assisted in improving **Application Performance** and enhanced **Database Performance** by creating and maintaining **SQL Server Indexes**, and by **Performance Tuning** the stored procedures that were being called from the Application.
* Provided **Backup Support** for other **Data warehouse Developer** and **Report Developer**.
* Involved in **Data Migration** from **Production Server** of Version 1 to Version 2. Developed appropriate **Data-Flows** and **Data Dependencies** to meet the **Database Design Changes** from Version 1 to Version 2.
* Created **SSIS Packages** to perform **Extract**, **Transform** and **Load** of the data between various servers while performing **Validation** with the packages.
* Worked with **DBA Team** and **Data warehouse Team** to perform data imports on a scheduled basis using **SQL Scripts** and also **SSIS Packages**.
* Performed thorough analysis on **Imported / Migrated Data** to assure **Import Logic** worked as requirements.
* Created and maintained **Jobs** in **SQL Server Agent** to perform regular tasks like billing jobs, work queues jobs.
* Work in conjunction with **QA Lead** to identify and fix **Database Side Bugs**. Also helped QA Lead and System Analyst to test the application in controlled, **Real Time Scenario** as per different roles that would be using the Application after release.
* Responsible for version control of all **Database Objects** like **Tables**, **Stored Procedures**, **Views**, **Functions** using **Visual Studio**.
* Worked with **Message Queuing** (**MSMQ**). Sent messages, received messages between **MSMQ Server** and **SQL Server** using **CLR Procedures**.

**Nepal Telecom January 2009 – August 2010**

**SQL Server Developer Kathmandu, Nepal**

Nepal Telecom (NTC) is a state owned telecommunication service provider of Nepal with extensive coverage of 2G and 3G network around the country. With around 5,000 employees, it is one of the largest corporations of Nepal having currently has more than 10 million customers.

**Environment:**

SQL Server 2000/2005, T-SQL, Enterprise Manager, SQL Server Management Studio, SQL Server Business Intelligence Studio, SQL Server Profiler, Analysis Services 2005, SSRS, ProClarity, Erwin

**Responsibilities:**

* Involved in performance tuning of TSQL queries and Stored Procedures and also optimized query performance by creating indexes.
* Write T-SQL statements for retrieval of data and Involved in performance tuning of TSQL queries and Stored Procedures.
* Use the SQL Server Management Studio and **SQL Profiler** for studying the SQL statements and procedures and to monitor their performance.
* Define and execute all SQL Server administrative tasks on each registered server.
* Worked on different **Data warehousing** methodologies such as **Bill Inmon** and **Ralph Kimball**.
* Worked with different **storage modes** in Analysis Services such as **MOLAP**, **ROLAP** and **HOLAP**.
* Created reports by retrieving the data from cube using **MDX** reports.
* Used **Caching** (**Cache Technology**) for fast retrieval of data to generate reports against data warehouse.
* Designed MDX queries to retrieve data from SSAS cubes.
* Designed Cube **partitioning** and **incremental synchronization** for SSAS cubes.
* Designed **Star Schema** and **Snow flaked schemas** in the process of data modeling using **ERwin**.
* Designed reports, Graphs and **deployed** reports to web applications using **SSRS**.
* Created **Parameterized reports** and **Linked reports** using book mark links and hyperlinks.
* Developed **Ad Hoc reports** and deployed it onto Reporting Server using Report Builder.

**Education:**

**Bachelors of Science – Tribhuvan University, Nepal**

*References are available on request.*