**SUNIL KUMAR SINGH**

**Professional Summary**

* Data Analyst professional with 6 years of experience in **ETL, Data Warehousing, Data Mart, Data Modeling, Data Cleansing, Data Mining, Data Mapping, Data Profiling, and Statistical Methodologies**
* **SQL experiences** using joins, view, sub queries, Stored Procedures, Triggers, User Defined Functions, tables and Indexes, temporary table, Constraints, null-functions etc.
* Proficient in writing in **SQL** for validating the **Data migration, Data Profiling, and Data integration**.
* Experience in data modeling using **E-R diagram, Normalization and DE Normalization** techniques for optimizing the performance in relational and dimensions environments
* Manipulating and analyzing data sets using Data Analytics / Visualization tools using **Tableau, Power BI, SAS, SSIS, MS Access, XL-Minor and Microsoft Excel** for **visualization and predictive** models.
* Familiar with Object Oriented Programming **(OOPs)** concepts and statistical Programming software **(Python)**
* Familiar with many data visualization (univariant and Multivariate plots) using **XL minor** such as (line Plot, Scatter Plot, Histogram, Dendrogram, Box plot, Bar Chart, Pie chat pivot table and V-lookups)
* Having a good knowledge with both the **SQL** (MySQL, MS SQL Server) and **NoSQL**

(**MongoDB**) based database

* Design and Develop **Data Flow and Control Flow** Data Model database design for **SSIS, and SSRS**
* Experienced in **Data Migration,** Data Conversions using **DTS, Data Junction and SQL Loader.**
* Ability to work with various types and stage of SDLC processes including Analysis, Design, Development, Testing and Implementation
* Experienced in **Agile**, **Scrum, Waterfall** and **Sprints methodologies**.
* Skillful in ETL, operations Data Store concepts, data marts, and OLAP technologies
* experience of regarding **WAMP** (Windows, Apache, MySQL, and Python) and **LAMP (Linux**, Apache, MySQL, and Python) architecture.
* Knowledge in **UNIX / LINUX** and **Shell Scripting**.
* Familiar with **RAD** (Rapid Application Development), and **JAD** (Joint Application Development) process.
* Good knowledge in Data Analysis, Requirement Analysis, statistical and Graphical Analysis of data, Business Modelling and Data Migration.
* Knowledge of creating Unified Modeling Language **(UML)** Diagrams such as Use Case Diagram Activity Diagrams, Class Diagrams and Sequence Diagrams.
* Excellent pattern recognition and predictive modeling skills
* Quick learner and keen to adopt the cutting-edge technologies.

**Technical Skills**

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| --- | --- |
| Operating Systems | MS Windows, Window XP, Linux/ Unix |
| Programming Languages | Python, Core Java, C# .Net, Linux, HTML, CSS |
| Databases | MS SQL Server, MySQL, Postgre SQL, T-SQL, Oracle, SSMS, NoSQL, MS Access, |
| IDE | MS SQL Server Management Studio 2014, Eclipse, Notepad ++, Microsoft visual studio 2010 |
| BI Reporting Tools | Tableau, Power BI, MS Visio, SAS, MS-Excel, XL Minor, |
| ETL Tools | SSIS, SSAS, SSRS, and Informatica |
| SDLC Methodologies | Agile Scrum, Waterfall |
| Data Warehousing | Microsoft OLAP, and OLTP services |
| Statistical Methods | Correlation Analysis, Linear Regression Analysis, Descriptive statistics, Hypothesis Testing. |

**Professional Experiences:**

**PennyMac, Irving, Texas Jan 2017 –Present**

**Data Analyst / ETL Developer / Reporting Service analyst**

PennyMac is a leading national mortgage lender and loan service provider with innovative mortgage solutions to make is easier for customers to purchase and refinance for home that helps homeowners with their home financing needs. PennyMac loan services needed a more responsive IT structure and responsive paradigm that will allow rapid application development, easy to online access to data and data inconsistencies. This project was involved in validation activities for Customer Management Service to support the data, reporting, and analytics needs as well as establishing processes and measurement protocols for developing solutions for clients.

**Responsibilities:**

**Data Analyst**

* Identifying source codes and data quality using SQL queries
* Developed logical Data flow and conceptual data flow to support the project requirements
* Extract data from MS SQL Server and create MS Excel and reports for business specific data validation
* Developed Data Model, Database Design development, data Mining and segmentation techniques
* Maintenance and Upgrade to Data Warehouse, Data Mart server to keep data information Updated
* Worked with ETL process, Data storage structures, Data mining, Data Profiling and Data cleansing Techniques using SQL Server Data Tools.
* Develop Data warehouse models and prepare ETL reports and scripts
* Provide Supports to ETL Schedule and maintain an effective project life cycle on all ETL processes.
* Debugs and Updates existing applications and implementing the best solutions
* Developed data mapping and, sessions and workflows to meet requirements.
* Perform ETL tasks using SQL that collect, parse, cleanse, and manage data sets to perform data analysis
* Statistical analyzing and reporting in visual studio environment using SSIS, SSRS and SSAS
* Design and Develop the Data Flow and Control Flow for ETL process.
* Analyzing data processing implementation data mart applications using Informatica and understanding of ETL workflows and Data Mapping
* Performed Data Profiling Tasks to analyze Data Patterns using SSIS.
* Performed SQL Queries using joins, view, sub queries, Stored Procedures, Triggers, User Defined Functions, tables and Indexes, temporary table, Constraints, null-functions etc. that help to implement different tasks and business rules.
* Developed and maintain data dictionary to create metadata reports for technical and business purpose
* Involved in JAD and RAD sessions with business as well as Technical teams to identify the business rules for requirements and documentation
* Gathered the requirements, Develop Process Model, Business policies and modification of business requirement documents
* Develop processes and tools to monitor and analysis model performance and data accuracy
* Coordination with different functional teams to implement models and monitor outcomes
* Minimize and analyze databases to drive optimization and improvements marketing techniques and business strategies
* Develop and maintain operating procedure and documentation for reports and the SSRS infrastructure

**Visualization & Reporting Services**

* Creating dashboards using Tableau Dashboard and prepared user stories to create compelling dashboards to deliver actionable insights
* Develop customize and publish interactive reports, visualizations and dashboards
* Dashboard and document designing experience
* Extensive knowledge of Tableau Desktop and Tableau Server
* Used Data visualization tools to see and understand trends, outlines and pattern in data
* prepared reports showing status, issues, resources requirements, risk and data dependencies
* Created different views using Tableau Desktop for data Analysis and customization using filters and actions
* Created Tableau scoreboards, dashboards using stack bar, bar graphs, scatted plots, geographical maps, Gantt charts using SHOW ME functionality.
* Created Tableau server to publish dashboard for portal integration
* Designed and developed various analytical reports from multiple data sources by blending data on a single worksheet using Tableau
* Reviewed and Optimized SQL Queries and edited Join Functions (Inner, Left, Right joins) in Tableau Desktop by connecting Dynamic and static datasets.
* Developing Dashboard reports, parameterized reports, linked reports, sub reports
* Build and prototype dashboards to provide insights into the operations of a business functions
* Created context filters on the exiting filters and Tableau data extract to publish it in server by optimizing it to reduce the report rendering time.

**Webgility Inc., SFO, CA Jan 2016 – Nov 2016**

**Data Analyst with Reporting Service**

Webgility Inc. is a leading e-commerce solutions company that provides integration software and services for eCommerce business to helped thousands of eCommerce business streamline their order fulfilment, inventory management, and accounting procedures. My role was involved analyzing and reporting data to integrate the various processes.

**Responsibilities:**

**Data Analyst**

* Coordinating with Business analysts and users to understand business and function requirements to implement into an ETL design document
* Monitoring the Data Quality and maintaining Data integrity to ensure effective functioning of the department
* Performed Data Profiling Tasks to analyze Data Patterns using SSIS.
* Statistical analyzing and reporting in visual studio environment using SSIS, SSRS and SSAS
* Design and Develop the Data Flow and Control Flow for ETL process.
* Data Mapping, Data Profiling, Data Quality using SSDTs for ETL and SSRS reporting
* Worked with DBA team to create physical data model from logical data model
* Designing Data Warehouse to store the data from the OLTP systems
* Implementing and testing of application data standards
* Wrote a SQL queries to validate source data
* Created ad hoc reports and pivot tables in excel
* Performed SQL Validation to verify the data extracts integrity and record counts in database tables
* Involved with data model and reporting requirements for Tableau Reports
* Designed and developed Data Models and Data Marts to support the Business Intelligence Data Warehouse
* Used Data visualization tools to see and understand trends, outlines and pattern in data Involved in SDLC process and its phase: Requirement gathering, Analysis, Design, Implementing, Testing, Deployment and maintenance
* Create functional specification documents and Data Mapping Analysis for system integrations
* Responsible for modeling complex scientific problems, discovering insights and identifying opportunities using statistical, algorithm, mining and visualization techniques
* Interact with various levels of management, staffs, and external consultants.
* Performed detailed data analysis (determine the structure, content, and quality of the data through examination of source system)

**Reporting Services**

* Developing Dashboard reports, parameterized reports, linked reports, sub reports using Tableau Dashboard
* Reviewed and Optimized SQL Queries and edited Join Functions (Inner, Left, Right joins) in Tableau Desktop by connecting Dynamic and static datasets.
* Created Tableau scoreboards, dashboards using stack bar, bar graphs, scatted plots, geographical maps, Gantt charts using SHOW ME functionality.
* Utilize critical thinking to deliver actionable insights and recommended strategies of core process area.
* Data visualization skills, ideally including interactive reports
* Experience in creating views, constrains, Triggers, Joins, Table Variable, Functions, and stored procedure at various stages of Data Migration and Data cleansing process, report data validation
* Skilled in creating and developing power BI / Tableau Dashboards
* Analyzing the business requirements and site specifications to create Business Requirement Document (BRD) and Design Document (Functional and Technical)
* Created aggregated tables to improve the performance of the reports
* Involved in troubleshooting and performance tuning of reports and resolving issues within Tableau server and reports
* Demonstrated translate a question into a visualization which provide insight and answer the question
* Build and prototype dashboards to provide insights into the operations of a business functions
* Developed actions, parameters, filter and calculated sets for preparing dashboards and worksheets using Tableau

**Serve Solution IT Homes Pvt. Ltd – Kathmandu, Nepal July 2014- Nov 2015**

**Data Analyst / Software Assistant**

Serve Solution IT Homes Pvt. Ltd is one of the leading software company in Nepal, provides the website designing and development, mobile Apps, Web based Apps and IT services to support the business needs. These projects were involved in Library Management System, and role was to produce reports, spotting patterns, collecting data and setting up infrastructure.

**Responsibilities:**

* Interfaced with business analysts, developers and technical support to determine the best requirement specifications.
* Collaborated with team members to create applications system analysis based upon client requirements.
* Software Assistant (Designing and Developing)
* Develop testing routines and procedures
* Software Development Life Cycle (SDLC) includes requirements, analysis, development, deployment and Testing of an application for business outputs.
* Identifying source codes and data quality using SQL queries
* Used SSMS, Execution plan to optimize SQL Queries
* Involved in JAD and RAD sessions with business as well as Technical teams to identify the business rules for requirements and documentation
* Analysing data processing implementation data mart applications using Informatica and understanding of ETL workflows and ETL Mapping
* Gathered the requirements, Develop Process Model, Business policies and modification of business requirement documents
* Develop Custom data models and algorithms to apply to data sets
* Develop processes and tools to monitor and analysis model performance and data accuracy
* Used Data visualization tools to see and understand trends, outlines and pattern in data
* Monitor computer system performance to ensure proper operation.
* Implemented designs, including experimentation and multiple iterations.
* Directed software design and development while remaining focused on client needs.
* Worked effectively with design teams to ensure software solutions elevated client-side experience.

**Amnil Technologies, Kathmandu, Nepal Feb. 2012 – May 2014**

**Data Analyst / IT Analyst**

Amnil Technologies is the software development company which experts in customer development of desktop Which provides the cutting-edge technological solution to national and international clients. Project was involved in system integration and Data Management Services to analyze, maintaining and support the data to achieve the business goals.

**Responsibilities:**

* Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
* Identifying source codes and data quality using SQL queries
* Identity, analyze, and interpret trends or patterns in complex data sets
* Design and develop Data Model to support the Data Mart and Data Warehouse
* Supporting the data warehouse in identifying and revising reporting requirements
* Worked with ETL process, Data storage structures, Data mining, Data profiling and Data cleansing Techniques
* Managing Master data including creation, updates, and deletion
* Provide quality assurance of imported data, working with QA analyst
* Statistical analyzing and reporting in visual studio environment using SSIS, SSRS and SSAS
* Data mapping and Data cleansing using Statistical analysis tools
* Managing and designing the reporting environment, including data sources, security and metadata
* Supporting initiatives for data integrity and Normalization
* Troubleshooting the reporting database environment and reports
* Evaluating changes and updates to source database systems
* Experienced in handling large data sets and relational databases
* Use statistical methods to analyze data and generate useful business reports
* Gathering, understanding, and detail documentations of business requirement using appropriate tools and techniques
* Create dashboard, graphs and visualizations of data information for supporting business.
* IBM Lotus Notes 8.5: Installation, Configuration, Troubleshooting for email communication
* Involved in JAD and RAD sessions with business as well as Technical Teams
* Information Security: Users Authentication, Email Security, Web Security etc.
* Remote Access Control: Technical support to Team viewer, Amy admin.
* IT management system: Keep computer or Information systems data information updated.
* Analyze data to inform operational decisions or activities.