**Komal.K**

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**PROFESSIONAL SUMMARY:**

* Over 8 years of extensive experience in **Microsoft BI tools (SSIS, SSRS, and SSAS)** and extensively worked on **SQL Server** 2005/2008/2008R2/2012/2014 Versions.
* Involved in various phases of Software Development Life Cycle (SDLC) including Analysis, Design, Testing, Implementationand Maintenance.
* Extensive experience in Design, Development, Implementation & Administration of Database systems using **MSSQL 2005/2008/2012** for Batch Processing using **DDL, DML, DCL commands** for various business applications and **Data Warehousing Systems (SSRS, SSIS, SSAS).**
* Experience in database programming in writing **T-SQL Stored Procedures, Triggers, Constraints (Primary Key, Foreign Key, and Unique) Indexes and Batch Scripts** using various DDL and DML commands.
* Very strong in writing SQL Joins, Nested Queries, Unions, Multi-table joins and experience in creating scheduling Jobs, sending Alerts.
* Experienced in creating **SSIS packages** involving ETL process, extracting data from various sources (Flat files, Excel files, Oracle, SAP, SQL Server) and loading for data warehousing using **SQL Server Integration Services**.
* Experience in creating **Jobs, and Sending Alerts** using SQL Mail, backups, performance issues, connectivity to databases, upgrade strategies, capacity planning.
* Experience in **developing management reports** by using **SSRS (SQL Serving Reporting Tools).**
* Strong experience in creating **Ad Hoc Reports**, parameterized Reports, Linked Reports, Snapshot Reports, Drilldown and Drill through reports using SQL SSRS.
* Experience in migrating **DTS packages**, reports and analysis services projects from **SQL Server 2005 to SQL Server 2008R2, 2012 and 2014.**
* Extensive experience in different type of reports including:**Tabular forms, Matrix (cross Tab report) form, Conditional, List items, Charts and Sub reports.** Very good experience in writing expressions in SSRS.
* Create reports in Power BI preview portal utilizing the SSAS Tabular via Analysis connector.
* Experience in **Power BI**, creating interactive visualizations, dashboards, reports based on business requirements.
* Knowledge in **Tableau Desktop** for data visualization through various charts such as Bar Graphs, Scatter Plots, Pie-Charts, Heat Maps, Bubble Charts, Tree Maps, Funnel Charts, Box Plots, Waterfall Charts, Geographic Visualization.
* Wide experience in creating **OLAP cubes**, identifying dimensions, attributes, hierarchies and calculating measures and dimension members in **SQL Server Analysis Services (SSAS).**
* Worked on **Data Marts, Data Warehousing**, Operational Data Store (ODS), OLAP, **Star Schema Modeling, Snow-Flake Modeling, Fact and Dimensions** Tables using MS Analysis Services.
* Expert in Tabular Modeling, Multi-Dimensional Cubes, **DAX** and **MDX** (SSAS)Experience in working with large databases in SQL, Oracle, and Teradata
* Ability to work independently or as part of a team to accomplish critical business objectives and to make decisions under pressure.
* Worked on **GIT, Team Foundation Server, Visual Studio online** and the application lifecycle tools associated with it.
* Excellent communication and inter-personal skills with theability to develop creative solutions for challenging client needs using agile and sprint methodologies etc.

**EDUCATION:**

* Bachelor of Technology from Anna University, INDIA.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Databases** | MS SQL Server 2005/2008r2/2012/2014 |
| **Database Tools** | Enterprise Manager, Query Analyzer, SQL Server Management Studio (SSMS), SQL Profiler, Upgrade Wizard, Database Engine Tuning Advisor, Business Intelligence Development Studio (BIDS), SQL Server Data Tools (SSDT), SQL Server Analysis Services (SSAS) |
| **Reporting Tools** | SQL Server Reporting Services(SSRS) 2012/2008/2005, Tableau, Power BI |
| **ETL Tools** | SQL Server Integration Services (SSIS), Data Transformation Service (DTS), BCP |
| **Languages** | T-SQL, PL/SQL, C#, ASP.Net |
| **Web Technologies** | Web Services, XML, HTML |
| **Operating System** | Windows 98 /2003/NT/XP/7, MS-DOS |
| **Applications** | MS Visual Studio 2010/2012,MS office2003/2007/2010, XML, Visual Studio IDE |
| **Data Modelling** | Erwin Tool, MS Excel |

**PROFESSIONAL EXPERIENCE:**

**Client: Duquesne Light, Pittsburgh, PA June 2016 – Till date**

**Role:** Sr. SQL BI Developer

**Responsibilities:**

* Work closely with business users to congregate and comprehend requirements.
* Analyzed data contained in the corporate database and identify data integrity issues with existing and proposed systems.
* Optimized the stored procedures which are using cursors and increased the performance.
* Created views to facilitate easy user interface implementation, and triggers on them to facilitate consistent data entry into the database.
* Designed and worked on Extraction, Transformation, and Loading (ETL) process by pulling up alarge volume of data from various data sources using SSIS.
* Extensively used SSIS transformations such as Lookup, Derived Column, Data conversion, Aggregate, Conditional split, SQL task, Script task and Send mail task etc.
* Designed SSIS packages for tracking the Audit time in multiple databases in multiple servers and worked on data flow task, Script component, OLEDB command, derived column, data conversion.
* Identified the potential Issues that occur during the package execution by redirecting the rows from source component to Error Output.
* Designed SSAS Tabular model for summary reports.
* Effectively used various properties in SSIS package to improve the performance.
* Worked on event handlers to prevent the error in propagating to rest of package, worked on native and custom logging.
* Created different chart reports helped in analyzing perform counters using SSRS.
* Developed drill down, drill through, cascaded and parameterized reports using SSRS and developed Excel pivot chart reports and pivot tables.
* Generated multiple Enterprise reports using SSRS from SQL Server Database (OLTP) and SQL Server Analysis Services Database (OLAP) and included various reporting features such as group by, drill down, drill through, sub-reports, navigation reports (Hyperlink) etc.
* Created, maintained & scheduled various reports in SSRS like Ad-hoc Reports, Canned Reports, Master Reports & Parameterized Reports using SQL Server Reporting Services SSRS.
* Created customized reports using various chart types like Text Tables, Bar, Pie, Tree Maps, Heat Maps, Line Charts, Pivot Tables, Combination Charts in Excel and Tableau.
* Migrate existing data into the Power BI.
* Create reports in Power BI preview portal utilizing the SSAS Tabular.
* Published Power BI Desktop reports created in Report view to the Power BI service.
* Transformed and combined the data using Query Editor in the Power BI.
* Created shared dimension tables, measures, hierarchies, levels, cubes and aggregations on MS OLAP/ Analysis Server (SSAS).
* Worked on building PowerPivot DAX reports from SSAS Tabular Cubes.
* Coordinating post-implementation events such as testing.
* Provide software product design and developed atechnical roadmap for the solution through the project lifecycle and beyond.
* Development experience with RDBMS such as SQL Server and DBMS such as Geneva.

**Environment**: T-SQL, MS SQL Server 2014/2012, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS) 2014/2010, Tableau, Visual Studio 2012,2013,Business Intelligence Development Studio (BIDS), Team Foundation Server(TFS), SharePoint, MS Excel, Microsoft WindowsServer 2012.

**Client:Wyndham, Orlando, FL Jan’2015-June2016 Role:** Sr. SQL BI Developer/SSIS/SSRS

**Roles &Responsibilities:**

* Interacted with customers to analyze business needs. Provide software product design and developed atechnical roadmap for the solution through the project lifecycle and beyond.
* Determined the SQL Server Installation. Installed SQL Server Management tools using SQL Server Setup Program.
* Involved in high-level architectural design discussions for designing the MDF (Metadata framework) tables which store the business and patient data.
* Created views to facilitate easy user interface implementation, and triggers on them to facilitate consistent data entry into the database and checked constraints to maintain data integrity.
* Used T-SQL queries to insert the complete file information and layout to MDF tables.
* Designed SSIS packages to transfer the data from flat files, Access database and Excel documents to the Staging Area in SQL Server 2012.
* Worked on for each loop containers, sequence containers and used various tasks like Execute SQL task which calls stored procedures and takes parameters, Script component task for reading the file and removing trailer records.
* Created source, stage and archive folders as per the requirements using expressions in file system task.
* Developed master package which calls the child packages and loads the files to stage and history tables in GDW.
* Implemented and enhanced existing reports like Group by, Drilldown, Drill Through, Sub-Reports, List, **Tabular**, Matrix, Navigation Reports, Standard Parameter, Cascading Parameter and Multivalve Parameters.
* Created SSRS reports using Report Parameters, Drop-Down Parameters, Multi-Valued Parameters Debugging Parameter Issues Matrix Reports and Charts.
* Identified and defined the Datasets for the report generation and wrote the queries for the drilldown reports, sub-reports.
* Extensive Knowledge in Creating Relationships, Measures, Partitions, Calculations using **DAX** and KPIs in **SSAS** Tabular model.
* Extensive use of **DAX** (Data Analysis Expressions) functions for the Reports and for the Tabular Models.
* Created different chart reports helped in analyzing perform counters using SSRS.
* Used SSRS Report Catalog to store the Configuration, Security and Caching Information for the Operation of the Report Server.
* Created various visualizations and reports using Power BI.
* Created, Maintained & scheduled various reports in **Power BI** like Tabular Reports, Matrix Reports.
* Deployed the generated reports on to the Report server and fine-tuned the database objects and server to ensure efficient data retrieval.
* Created report snapshots to improve the performance of SSRS.
* Designed cubes with star schema using SQL Server Analysis Services (SSAS).
* Understanding the OLAP processing for changing and maintaining the Warehousing Optimizing Dimensions, Hierarchies and adding the Aggregations to the Cube.
* Coordinating post-implementation events such as testing.

**Environment**: T-SQL, MS SQL Server 2014/2012, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), Visual Studio 2012,2013, Power BI, Business Intelligence Development Studio (BIDS), Team Foundation Server(TFS), SharePoint, Erwin, MS Excel, Microsoft WindowsServer 2012.

**Client: Centene Health Care –St. Louis, MO July 2013 – Dec’2014**

**Role:** Sr. SQL BI Developer

**Roles &Responsibilities:**

* Worked in AGILE methodology in thedevelopment of Database Objects in SQL Server 2005/2008/ 2008 R2/2012.
* Developed SQL scripts to Insert, Update, Delete and Merge data in the database tables along with SQL joins.
* Developed and optimized database structures, stored procedures, Dynamic Management views, DDL triggers and user-defined functions.
* Dynamically supported business users for given requirements and developed the reports accordingly.
* Responsible for report generation using SQL Server Reporting Services (SSRS) and Crystal Reports based on business requirements.
* Developed complex reports using multiple data providers, user defined objects, aggregate aware objects, charts, and synchronized queries
* Created Cross-Tab, Drill-down, and Sub-Report using RDL. Promoted RDLs to Reporting Service Server.
* Designed SSIS packages to transfer the data from DB2, flat files and Excel documents to the Staging Area in SQL Server 2012.
* Used SQL Server Destination in Data flow to improve a superior performance change in Replications.
* Developed SSIS Packages using Look Up Values & implementing rules provided by Business in the mapping document.
* Used SSIS Variables for storing the values, which are used in various components of Data Flow Task.
* Created package configuration in XML and used them to deploy packages into SQL server.
* Monitoring SSIS packages, Stored Procedures running in Agent job and support the Production Team.
* Created complex SSAS cubes with multiple fact measures groups, and multiple dimension hierarchies based on the OLAP reporting needs.
* Developed many asp.net web applications using SQL Server and C#, to provide solutions for companywide needs.
* Daily support of system wide replication tasks including monitoring, alerting, and problem resolution
* Published dashboards on an intranet site using SharePoint Server.

**Environment:**T-SQL, MS SQL Server 2008R2/2008 and 2012, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), SQL Server Analysis Services (SSAS), Business Intelligence Development Studio (BIDS), SQL Profiler, Team Foundation Server, MS Excel, Windows XP.

**Client: Sterling Bank - Montgomery, AL Dec’ 2012 – June 2013**

**Role:** MSBI Developer

**Responsibilities**:

* Closely worked with end-users to analyze, understand and gather report requirements.
* Worked effectively on SQL Profiler, Index Tuning Wizard, Estimated Query Plan to optimize the performance tuning of SQL Queries.
* Wrote and executed complex T-SQL queries using SQL Management Studio for backend data validation testing.
* Developed and created the new database objects like tables, views, index, stored procedures and functions, advanced queries and updated statistics using Query Analyzer and Enterprise Manager on the existing servers.
* Migrated all DTS packages to SL Server Integration Services (SSIS) and modified the package according to the advanced features of SQL Server Integration Services.
* Extraction, Transformation and Loading (ETL) process by pulling alarge volume of data from various data sources using SSIS.
* Used SSIS to implement the Slowly Changing Dimensions, to maintain Historical Data in Data Warehouse.
* Developed reports using SSRS, used table control, matrix control for cross tab reports.
* Wrote queries to generate reports for analysis of data using SQL Server Reporting Services, Report Builder.
* Developed several details and summary reports including line and pie charts, trend analysis reports and sub-reports according to business requirements using SSRS.
* Worked on ADO.Net to access data from thedatabase.
* Scheduled report subscriptions, publishing and set up SMTP for automated email generation with report links and schedule jobs and roles using SQL Server Agent.
* Handled issues like data correction and resolved error handling.

**Environment**: Microsoft SQL Server 2008 R2 Enterprise Edition, SSIS, SSRS, C#, Share Point Windows Server, Windows 7/XP, Visual Studio 2010 & TFS.

**Client: State Bank of India – India Mar’ 2011 – Nov’ 2012**

**Role:** SQL / ETL Developer

**Responsibilities:**

* Creation, manipulation and supporting the SQL Server databases.
* Generated and debugged complex stored procedures and functions for performance tuning and optimization.
* Involved in creating SQL reports, data extraction and data loading scripts for different databases and schemas.
* Created complex functions, stored procedures for complex sub-queries and views based on the business requirements.
* Extensively used T-SQL in constructing user functions, views, indexes, user profiles, relational database models, data dictionaries, and data integrity.
* Build efficient SSIS packages for processing fact and dimension tables with complex transform.
* Data Transformation Activities using SSIS Import/ Export for transferring data between different databases like Oracle. Design new SSIS packages as per needs and resolve the problems.
* Created SSIS package to get data from different sources, consolidate and merge into one single source.
* Worked closely with business users in defining and documenting reporting requirements to design, develop and maintain SQL Server 2008 reporting services (SSRS).
* Deployed the generated reports on to the Report server and fine-tuned the database objects and server to ensure efficient data retrieval.
* Coordinated with source system owners, day-to-day ETL progress monitoring, Data warehouse target schema design (Star Schema) and maintenance.

**Environment**:MS SQL Server 2005, SQL Integration Services (SSIS), SSRS, Data Transformation Services (DTS), Business Intelligence Development Studio (BIDS), T-SQL, Visual Studio 2008, Windows 2007 Enterprise, MS Office2007.

**Client: Hindustan Unilever Limited – India April 2009 – Feb 2011**

**Role:** Database Developer

**Roles &Responsibilities:**

* Coded Stored Procedures, functions, and triggers at a high level.
* Fine Tuned the SQL queries using hints for maximum efficiency and performance.
* Used Performance Monitor and SQL Profiler to optimize queries and enhance the performance of database servers.
* Created/reallocated database objects on appropriate Filegroups to ease maintenance and improve data access performance.
* Closely worked with the end users to analyze, understand and gather report requirements.
* Participated in User Acceptance Testing for different modules.
* Implementing user training and providing technical support.
* Prepared proper backup and recovery plans.
* Merging data into a single server for achieving better control, consistency & security of data.
* Worked on the Logical and Physical design of database for projects on basis of user requirements.
* Extraction, transformation, and loading (ETL) process by pulling alarge volume of data from various data sources using SSIS.
* Extensively used SQL Server Reporting services and report builder model to generate custom reports.
* Wrote and executed complex T-SQL queries using SQL Management Studio for backend data validation testing.
* DBA activities like creating users, roles and granting and revoking privileges.

**Environment**: MS SQL Server 2005, T-SQL**,** SQL Windows Server 2003, and MS Access and Excel, SSIS, SSRS.