

Mayuri

Senior Data Analyst

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PROFESSIONAL EXPERIENCE:

- Over 6+ years of industry experience as a Data Analyst with a good understanding of Business Requirements, Data warehousing, Data Modelling, Evaluating Data Sources Requirements into Specifications.
- Knowledge of Tracking defects using Bug tracking and Version control tools like Jira and Git.
- Considerable Experience in working on different operating systems like Windows and Linux.
- Good Interpersonal Skills, team-working attitude, takes initiative and very proactive in solving problems and providing the best solutions.
- Experience working in all phases of the Software Development Life Cycle (SDLC) using methodologies like Agile and Waterfall.
- Experienced in Supporting end-user reporting using Power BI.
- Experience in pulling the ad-hoc data and delivering data to the customers in different formats like excel, pivot tables, and flat files.
- Experience in Data Transformation, Metadata, Data Dictionary, Data Loading, Modelling, and Performance Tuning.
- Excellent experienced in data Extraction, Transformation and using various tools such as SQL Server Integration Services, SSIS, SSRS and SSAS and SQL Replication.
- Extensive experience with OLTP/OLAP System and E - R modeling, developing Database Schemas like Star schema and Snowflake schema used in relational, dimensional and multidimensional modeling.
- Proficient in developing parameterized reports, cascading reports, drill down reports, drill through reports, sub reports and ad-hoc reports in SSRS by pulling data from SSAS or relational database.
- Experience with Teradata as the target for the data marts, worked with BTEQ, Fast Load and Multi Load.
- Knowledge in Database Creation and maintenance of physical data models with DB2 and SQL Server databases.
- Excellent understanding of Data Analysis, Data Services, Data Warehousing (DW & DWH) Enterprise Data Warehousing (EDW) using SQL query tools and applications.
- Extensive Experience in relational data modeling, Dimensional data modeling, Logical/Physical Design, ER Diagrams, OLTP and OLAP system study and analysis.
- Experience in Creating Teradata objects including Volatile Table, Derived Table, Global Temporary Table, and Multiset Table as needed for retrieving data.
- Knowledge and understanding of Data warehousing concepts: Star Schema, Snow-flake Schema, Fact, and Dimension Tables.
- Ability to develop MapReduce program using Python and Exporting and importing data to and from Oracle using SQL developer for analysis.
- Good experience in using Sqoop for traditional RDBMS data pulls and worked with different distributions of Hadoop like Hortonworks and Cloudera.
- Good knowledge in Strategic development of a Data Warehouse and Performing Data Analysis and Data Mapping from an Operational Data Store to an Enterprise Data Warehouse.
- Experience in writing SQL and PL/SQL statements - Stored Procedures, Functions, Triggers, and packages.

- Extensive experience in generating data visualizations using R, Python and creating dashboards using tools like Tableau.
- Extensively used ERWin to design Logical, Physical Data Models, and Relational database and to perform forward/reverse engineering.
- Experience in pulling the ad-hoc data and delivering data to the customers in different formats like excel, pivot tables, and flat files.
- Worked with large scale data processing collected data from a variety of structured and unstructured data sources, stores data in a scale-out data lake and prepared the data using ELT techniques in preparation for the data science, data exploration and analytic modeling.

TECHNICAL SKILLS:

Visualization tools:	Power BI, SSIS, SSRS, SSAS, Tableau.
Programming Languages	Python, R, Scala, SAS, SQL, HiveQL, PL/SQL, UNIX shell Scripting
Database	SQL, PL/SQL, MySQL, MS SQL Server, Teradata, Data Warehouse
Data Modeling Tools:	Star Schema, Snow-flake, Fact Tables, Dimensional Tables, Erwin, SSIS, SSRS, SSAS
Reporting / Other Tools:	JIRA, Git, MS Office, KPI, VLOOKUP, Pivot tables, OLAP
Methodology:	SDLC, Agile, Waterfall
Operating Systems:	Windows, Linux, ACE, Unix, No MACHINE

PROFESSIONAL EXPERIENCE:

**Federal Home Loan Bank, Dallas
Present**

August 2021 –

Sr. Data Analyst

Responsibilities:

- Work with users to identify the most appropriate source of record required to define the asset data for financing.
- Performed Data analysis and Data profiling using complex SQL on various sources systems including Oracle and Teradata.
- Created SSIS package to load data from Flat files, Excel and Access to SQL server using connection manager.
- Developed normalized Logical and Physical database models for designing an OLTP application.
- Created graphical dashboards and reports in Power BI.
- Used Prompts, filters, Conditional, Transformation metrics and Level Metrics for creating complex reports.
- Creating TSQL Scripts to include them in the development of SSRS and Crystal Reports.
- Designed a STAR schema for the detailed data marts and Plan data marts involving confirmed dimensions.
- Create and review SSAS tabular cubes for consuming as a data source for reports, Dashboards, Pivot table.

- Evaluate data models for quality and accuracy and make well-reasoned recommendations backed up by strong data visualizations to support the business team.
- Strong Data modeling skills including Star Schema and Snow-Flake models and E-R modeling, Dimensional modelling.
- Created SSIS package to load data from Flat File to SQL Server using Lookup, Fuzzy Lookup, Derived Columns, Condition Split, Term Extraction, Aggregate, Pivot Transformation, Slowly Changing Dimension.
- Created conceptual, logical and physical data models, data dictionaries, DDL and DML to deploy and load database table structures in support of system requirements.
- Wrote SQL queries for each Test case and executed in SQL Plus to validate the data between Enterprise Data Warehousing and Data Mart Staging Tables.
- Performed forward and reverse engineering, applying DDLs to database in restructuring the existing data Model using Erwin.
- Designed reports, which are the focus and goal of business intelligence. Created documents, which contain a group of reports and developed Dynamic Dashboards, which is a summarization of Key performance indicators (KPI).
- Wrote Test cases for Enterprise Data Warehousing (EDW) Tables and Data Mart Staging Tables.
- Created Teradata SQL scripts using OLAP functions like RANK () to improve the query performance while pulling the data from large tables.
- Worked on MongoDB database concepts such as locking, transactions, indexes, replication, schema design, etc.
- Designed and developed weekly, monthly reports using MS Excel Techniques (Charts, Graphs, Pivot tables) and PowerPoint presentations.
- Strong Excel skills, including pivots, VLOOKUP, conditional formatting, large record sets. Including data manipulation and cleaning.

Environment: SQL/Server, OLTP, SSIS, SSRS and SSAS, Oracle 9i, MS-Office, Teradata, Power BI, Erwin, Snow-flake schema, Star Schema, Informatica, ER Studio, XML,

The Hartford Financial, Connecticut

July 2018 –Aug 2021

Data Analyst

Responsibilities:

- Developed full life cycle software including defining requirements, prototyping, designing, coding, testing and maintaining software.
- Extensively used the agile methodology as the Organization Standard to implement the Data Models.
- Wrote Test cases for Enterprise Data Warehousing (EDW) Tables and Data Mart Staging Tables.
- Developed system by designing Logical and eventually Physical Data Model from the Conceptual Data Model.
- Maintained Referential Integrity by Introducing foreign keys and normalized the existing data structure to work with the ETL team and provided a source to target mapping to implement incremental, full and initial loads into the target data mart.
- Worked on normalization techniques. Normalized the data into 3rd Normal Form (3NF).
- Created the best fit Physical Data Model based on discussions with DBAs
- Identified required dimensions and Facts using Erwin tool for the Dimensional Model.
- Validated business data objects to ensure the accuracy and completeness of the database.

- Represented existing business models by UML diagrams.
- Ability to recognize and resolve discrepancies between executed DDL and the physical data model using complete compare.
- Created shared dimension tables, measures, hierarchies, levels, cubes, and aggregations on MS OLAP/ OLTP/Analysis Server (SSAS) in Tabular Model.
- Worked on development, implementation, administration and processes for large-scale Data Warehouses using SSIS and DTS.
- Created new reports using SQL Server Reporting Services SSRS.
- Implemented metadata standards, Collibra Data Governance and stewardship, master data management, ODS, data warehouse, data marts, reporting, dashboard, analytics, segmentation, and predictive modelling.
- Used Erwin tool to develop a Conceptual Model based on business requirements analysis.
- Implemented Snow-flake schema to ensure no redundancy in the database.
- Implemented Forward Engineering by using DDL scripts and generating indexing strategies to develop the logical data model using Erwin.
- Reverse Engineered physical data models from SQL Scripts and databases.
- Optimized and updated UML Models (Visio) and Relational Data Models for various applications.
- Supported Salesforce.com maintenance with services such as periodic data cleansing and workflow.
- Developed the required data warehouse model using Star schema for the generalized model.
- Created dashboards as part of Data Visualization using Tableau and Power BI.
- Maintained Data Consistency by evaluating and updating logical and physical data models to support new and existing projects.
- Involved in Data profiling to detect and correct inaccurate data and maintain the data quality.
- Developed Data Migration and Cleansing rules for the Integration Architecture (OLTP, ODS, DW).
- Generated various reports using SQL Server Report Services (SSRS) for business analysts and the management team.
- Designed system environment and maintained documentation of Metadata.
- Well experienced in documenting data relationships, business rules, allowed rules, evolved glossary, and codes.

Environment: OLTP, DBAs, SSIS, SSRS and SSAS, DDL, DML, Erwin 9.6, UML, diagrams, Snow-flake schema, Star Schema, SQL, Data Mapping, Metadata.

Market Simplified, Chennai, India
ETL Developer

July 2015 – Dec 2016

Responsibilities:

- Involved in data management including Data Modeling, Metadata, Data Analysis, Data mapping and Data Dictionaries, Erwin9.1 and involved in Data Modeling (Oracle/MySQL), Data Characterization, Workflow design and implementation.
- Used Erwin Data Modular and Erwin Model Manager to create Conceptual, Logical and Physical data models and maintain the model versions in Model Manager for further enhancements.
- Worked on logical and physical modeling of various data marts as well as data warehouse using Taradata14.

- Created and maintained Logical Data Model (LDM) for the project. Includes documentation of all entities, attributes, data relationships.
- Implemented Bulk Load Process by converting existing Triggers to Oracle11g packages to improve the Data loading process. UNIX Shell Scripts for Data Import/Export and Data Conversions.
- Maintained warehouse metadata, naming standards and warehouse standards. Involved in the validation of the OLAP Unit testing and System Testing of the OLAP Report Functionality and data displayed in the reports.
- Worked in using Teradata14.1 tools like Fast Load, Multi Load, T Pump, Fast Export, Teradata Parallel Transporter (TPT) and BTEQ.
- Designed the overall ETL solution including analyzing data, preparation of high level, detailed design documents, test plans and deployment strategy.
- Strong knowledge of Entity-Relationship concept, Facts and dimensions tables, slowly changing dimensions and Dimensional Modeling (Star Schema and Snow-flake Schema).
- Created Software Development Life Cycle (SDLC) document and excelled in the process of Change Management, Release management and Configuration processes.
- Involved in Normalization and De-Normalization of existing tables for faster query retrieval.
- Create MDM base objects, Landing and Staging tables to follow the comprehensive data model in MDM.
- Wrote Test cases for Enterprise Data Warehousing (EDW) Tables and Data Mart Staging Tables and Experience in using Actimize, Manta's system for transaction monitoring and alerts.
- Designed Data Staging Area and Data Warehouse to integrate the data from various sources including Flat Files to facilitate management to make more fact-based decisions.
- Deployed SSRS reports and published Power BI dashboards to share them with the appropriate users. Created multiple roles, with appropriate privileges for different users.
- Migrated data from different sources (text-based files, Excel spreadsheets, and Access) to SQL Server databases using SQL Server Integration Services (SSIS).
- Implemented slowly changing dimensions Type2 and Type3 for accessing history of reference data changes. Developed and implemented SSIS, SSRS and SSAS application solutions for various business units across the organization.
- Performed exploratory data analysis and data cleaning along with data visualization using Seaborn and Matplotlib.
- Extensively used SAS to query and subset data, summarize and present data, combine tables using joins and merges and created and modified tables.
- Worked in PL/SQL Programming (Stored procedures, Triggers, Packages) using Oracle (SQL, PL/SQL), SQL Server2008 and UNIX shell scripting to perform job scheduling.

Environment: Data Mapping, Metadata, SSIS, SSRS and SSAS, Taradata14, UNIX Shell Scripts, DBAs, Erwin 9.1, UML, diagrams, Snow-flake schema, Star Schema, SQL, OLTP.