**Professional Summary**

* Around 6 years of professional experience as a Data Analyst with solid understanding of Data Modeling, Evaluating Data Sources and strong understanding of Data Warehouse/Data Mart Design, ETL, BI, OLAP, Client/Server applications.
* Experience with data architecture, data mining, large – scale data modeling, data integration and business requirements gathering/analysis for data quality.
* Experience in developing Conceptual, logical models and physical database design for Online Transactional Processing (OLTP) and Online Analytical Processing (OLAP) systems.
* Experience in designing and developing reports using Microsoft Reporting Services (MSRS), Crystal Reports, MS Access, SQL Server Reporting Service (SSRS), Executing Queries and Running Store Procedures.
* Work experience in data management and manipulation with Relational Database including Oracle, MySQL and MS SQL Server; NoSQL database like MongoDB.
* Experience in dealing with different data sources ranging from Flat files, CSV Files, SQL server, DB2, Oracle and Excel.
* Designed, configured and delivered MDM hubs across multiple data and domains (Customer, Product, Store, etc.)
* Experienced in Data Migration, Data Conversions using DTS, Data Junction and SQL Loader.
* Experienced in developing T-SQL, Stored Procedures and Triggers for business logic implementations.
* Experience in dealing with different data warehouse applications ranging from Flat files, Oracle, TOAD as the querying interface, SQL server, Teradata, MS Visio, MS Access and Excel (pivot table, v-lookups) on windows.
* Expertise in Business Intelligence and Data Warehousing tools such as Tableau, Power BI and SSRS.
* Strong understanding of the principles of Data Warehousing, Fact tables, Dimension tables, star and snowflake schema modeling.
* Experience in data modeling experience using E-R diagram, Normalization and DE normalization techniques for optimizing the performance in relational and dimensional database environments.
* Comprehensive knowledge of business processes, with hands on experience on Software Development Life Cycle (SDLC) and various methodologies like Waterfall and AGILE SCRUM.
* Excellent in verbal and written communication, organization skills combined with the ability to work in a fast-paced environment as an individual and/or as a team member.

**Technical Skills**

|  |  |
| --- | --- |
| Data Analysis | Teradata, Excel, Tableau, Power BI |
| Languages | SQL, R, Python |
| Databases | MySQL, MS SQL Server 2012, 2014, NoSQL DB2, Oracle, MS Access |
| Reporting Tools | SSRS, Tableau, Excel, SSIS |
| Business Modeling / BI Tools | MS Visio, Tableau, Excel, SSIS |
| Data modeling/ETL | SSIS, SSAS, Informatica |
| Data Quality | Informatica Data Quality (IDQ), DVO (Data Validation Option) |

**Professional Experience**

**Client: Bank of America, Newark, DE. January 2017 – August 2018**

**Data Analyst**

Project involved developing a Data Warehousing System for several business areas including mortgage administration, Inspection and default collections. The three major components of the system were ETL, Data Warehousing and Reporting for several business areas. Reviewed and assessed information gathered, defined key facts and issues, identified potential problems and facilitated problem resolution.

**Responsibilities**

* Developed database schemas like star schema and snowflake schema used in dimensional and multidimensional databases.
* Assisted Data Scientist team to Gathered the Requirements, Develop Process Model and detailed Business Policies and modified the business requirement document.
* Analyzed Data Processing implementing Data Mart applications mainly transformation processes using Informatica and understanding of ETL workflows and ETL mappings and monitoring the Production Environment.
* Develop and maintain sales reporting using in MS Excel queries, SQL in Teradata, and MS Access. Produced performance reports and implement changes for improved reporting.
* Extracted Data from Teradata using Informatica Power Center ETL and DTS Packages to the target database including SQL Server and used the data for Reporting purposes.
* Developed several detail and summary reports including line and pie charts, trend analysis reports and sub-reports according to business requirements using SQL Server Reporting Services (SSRS).
* Develop ETL solutions using CloverETL, R, and Python to process client data.
* Develop Tableau Data Visualization using cross tabs, Heat maps, Box and Whisker charts, Scatter Plots, Geographic Map, Pie Charts and Bar Charts and Density Chart.
* Involved in database-driven web application development using a variety of frameworks such as Django on Python.
* Writing Unit, Functional, and Integration test cases for Cloud Computing applications on AWS using Python with boto library.
* Created SQL-Loader scripts data to load legacy into Oracle staging tables and wrote SQL queries to perform Data Validation and Data Integrity Testing.
* Business requirement gathering and translating them into clear and concise specifications and queries.

**Environment:** MS Office (MS Word, MS Excel, MS PowerPoint, MS Visio), Teradata, UNIX, Oracle 11g/12c, Crystal reports, Business Objects, SQL Server 2014, Python, Django.

**Client: Humana Inc - Louisville, KY May 2015 – December 2016**

**Data Analyst**

A for-profit American [health insurance](https://en.wikipedia.org/wiki/Health_insurance_in_the_United_States) company. The projects involved the development of the high priority Medicaid projects focusing on the implementation. My role in the projects was providing support throughout the life cycle. I was involved in writing the requirements, researching & analyzing. My work also includes Data Analysis & Integration provide data integration and data quality, map business processes, Database Design meet with all levels of management.

**Responsibilities:**

* Created Data Stage jobs to extract, transform and load data into data warehouses from various sources like relational databases, application systems, temp tables, flat files etc.
* Create and maintain data model/architecture standards, including master data management (MDM)
* Worked with ETL teams to deliver the reporting layer composed of the highly tuned and aggregated tables designed from the base tables.
* Performed numerous data pulling requests using SQL for analysis.
* Analyzed Business Requirements and segregated them into high level and low level Use Cases, Activity Diagrams / State Chart Diagrams using Rational Rose according to UML methodology thus defining the Data Process Models.
* Work on developing Python Scripts to assist in testing trading functionality.  
  Proficient in importing/exporting large amounts of data from files to Oracle/Teradata and viceversa.
* Highly experienced in Performance Tuning and Optimization for increasing the efficiency of the scripts.
* Performed troubleshooting, fixed and deployed many Python bug fixes of the applications and involved in fine tuning of existing processes followed advance patterns and methodologies.
* Created various types of data visualizations using Python.
* Work on developing Python Scripts to assist in testing trading functionality.
* Experience using Python and R for machine learning algorithms for data mining. Cluster analysis, hidden Markov models, and time series analysis.
* Wrote Python scripts to parse XML documents and load the data in database.
* Used Python to extract weekly information from XML files.
* Developed Python scripts to clean the raw data.
* Involved in creating TDE (Tableau Data Extract) using PYTHON script.
* Identified, analyzed and interpreted trends or patterns in complex data sets using data mining tools (Python, R)  
  Carried out segmentation, building predictive models and integrating secondary and primary data using R, python
* Worked on designing regression Algorithms using R and Python.
* Used ad hoc queries and Pandas with Python for querying and analyzing the data, participated in performing data profiling, data analyzing, data validation and data mining.
* Involved in creating test cases for EDI 837 Claims (I & P) Transactions.
* Worked on Data Verifications and Validations to evaluate the data generated according to the requirements is appropriate and consistent.
* Performed Mapping of the EDI files as per the HIPAA guidelines for various EDI Transactions to claim processing system.
* Proficient working in loading data into staging tables via views.
* Created daily and monthly reports using SQL and UNIX for Business Analysis.
* Expertise in generating graphs using MS Excel Pivot tables.
* Analyzed web analytics data using Google Analytics and optimized website content which led to a significant decrease in bounce rates and improvement in conversions.
* Served as a liaison between the business and the IT department by conducting weekly calls/meetings with stakeholders, developers, QA Team, UAT Team to document any changes and apply them to Tableau reports as needed.
* Determined project scope and engineering requirements, estimated schedules, tracked item completion, certified milestones and maintained project documentation and corporate e-commerce web site Testing.
* Extracted data from existing data source, Developing and executing departmental reports for performance and response purposes by using oracle SQL, MS Excel.
* Extracted data from existing data source and performed ad-hoc queries.
* Analyzed data quality issues against source system and prepared a data quality document confirming all the source data quality.

**Environment:** Teradata, UNIX, Oracle, Business Objects, SQL Server, Python, Django, Tableau, Crystal Report.

**Client: ADVAYA INFOTECH, NOIDA, India April 2013 – December 2014**

**Junior Data Analyst**

**Responsibilities**

* Performance tuning of the database, which includes indexes, and optimizing SQL statements, monitoring the server.
* Wrote simple and advanced SQL queries and scripts to create standard and Adhoc reports for senior managers.
* Performed business requirements analysis, Data Dictionary mapping, extensive database modeling (Relational and Star schema) utilizing Oracle Designer.
* Extensive experience in creating logical tables and columns, Dimensional Hierarchies, Level Based Measures, Time Series data for complex data analysis.
* Create and maintain data model/architecture standards, including master data management (MDM).
* Coordinated with the front end design team to provide them with the necessary stored procedures and packages and the necessary insight into the data.
* Involved in Data analysis for data conversion – included data mapping from source to target database schemas, specification and writing data extract scripts/programming of data conversion, in test and production environments.
* Generated reports like subject area reports, entity relationship diagrams, attribute reports, table reports, column reports, indexing reports, relationship reports.
* Data architecture using ER and dimensional modeling Erwin for the staging, warehouse and associated data marts.
* Extraction, Transformation and Loading of the data Using Informatica Power Center.
* Designed and maintained logical and physical enterprise data warehouse schemas.

**Environment:** Teradata, MS SQL Server, Oracle, BI Tools, VBA Excel, Crystal Reports, MS Access, MS Visio, Tableau.