

JOB DESCRIPTION
Data Modeler/Warehouse Developer
Code Number: 10039

GENERAL PURPOSE

Under direction of the Business Solutions Manager, models and transforms data for the data warehouse and business intelligence (BI) applications; serves as an expert technical resource to Information Systems staff on data modeling, data analytics, business intelligence reporting and data warehouse administration; develops, reconciles, and maintains the enterprise data dictionary; and performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS

The Data Modeler/Warehouse Developer is a unique, single position class in the Information Systems family. The incumbent performs data modeling at the conceptual, logical and physical levels for data warehouse and BI applications, works with subject matter experts and senior staff to support analytical studies and data visualization efforts. The Data Modeler/Warehouse Developer also analyzes, advises, and reports on data quality issues.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this class.

Critically evaluates information gathered from multiple sources, reconciles conflicts, logically classifies information.

Uses different visualization techniques and presents the results of data exploration studies.

Documents the source to target mappings for both data integration as well as web services (consumer/provider mappings) that can be easily understood by the project team members with data quality and transformation rules.

Identifies and documents sources of existing data as well as the new data.

Collaborates with business partners and conducts data profiling and predictive analysis using a variety of tools.

Creates conceptual, logical and physical data models and determines the most appropriate data representation for consumption by various business units, to include relational, dimensional, object, key-value (such as column families), charts and graphs, etc.

Have joint accountability with data stewards and database administrators to develop, maintain, and conform to data governance policies around information management.

Refines project requirements, scope, objectives, deliverables, acceptance criteria, constraints, assumptions and alternative solutions; creates work breakdown structures and/or network diagrams; performs definition, sequencing, resource estimates, and duration estimating of project activities for overall schedule development.

May share on-call responsibility for critical application or project support.

Performs related duties as assigned.

DESIRED MINIMUM QUALIFICATIONS

Knowledge of:

Principles and practices in the design of data models corresponding to business processes and data flows; meeting management; business analyst techniques for discovery sessions; computer software for documentation; implementing a model repository and creating database schemas. Understanding of database performance and SQL tuning; project planning, prioritizing and scheduling techniques; basic accounting, statistical, business and office procedures. Understands and can diagram data flow, transformations, and interfaces and perform change impact analysis. Should be familiar with common data encryption, masking, and protection practices.

Ability to:

The ability to lead a team in discovery sessions and document results; create database schemas and create a physical model; design logical, conceptual and physical models; organize, plan, and complete projects efficiently and in accordance with District quality standards; work collaboratively in a project team environment; make sound, independent decisions within established guidelines; communicate clearly and effectively orally and in writing; follow and apply written and oral instructions' establish and maintain effective working relationships with those contacted in the course of work.

Training and Experience:

A typical way of obtaining the knowledge, skills and abilities outlined above is graduation from an accredited college or university with a bachelor's degree in data science, data analytics, statistics, computer science, or a closely related field; and four

years of progressively responsible experience in data analysis, data modeling; or an equivalent combination of training and experience.

PHYSICAL AND MENTAL DEMANDS

The physical and mental demands described here are representative of those that must be met by employees to successfully perform the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Physical Demands

While performing the duties of the class, employees are regularly required to sit; talk and hear, in person and by telephone; use hands repetitively to finger, handle, feel or operate standard office equipment; and reach with hands or arms. Employees are frequently required to walk and stand and to regularly lift up to 15 pounds. Specific vision abilities required by the job include close vision, the ability to distinguish colors and shades and the ability to adjust focus.

Mental Demands

While performing the duties of this class, employees are regularly required to use oral and written communication skills; read and interpret data, information and documents; analyze and solve problems; use math and mathematical reasoning; learn and apply new skills or information; perform highly detailed work on multiple, concurrent tasks; work under changing deadlines with frequent interruptions; work effectively as a team leader or member; and interact with District end users, employees, vendors and others encountered in the course of work.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this class. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The employee works under normal office conditions, and the noise level is usually quiet.

FLSA DETERMINATION: Meets the administrative/computer exemption from overtime