
Position:	Data Warehouse Developer	FLSA:	Exempt
Department/Site:	Information Technology Services	Salary Grade:	43
Reports to/Evaluated by:	Manager, Application Development & Support Services	Salary Schedule:	Classified

SUMMARY

The Data Warehouse Developer (DWD) is responsible for the full life cycle development, implementation, production support, and performance tuning of the Enterprise Data Warehouse, Data Marts, Business Intelligence Reporting environments, and supports the integration of those systems with other applications, working with hardware/software engineers, DBAs, application vendors and managed services to ensure enterprise DW solutions are reliable, scalable, flexible and low maintenance. This position will provide technical expertise to develop, deploy, and support solutions based on Microsoft's Database Technologies i.e. SQL Server databases, Reporting Services, Analysis Services etc. as well as ETL and Data Visualization Technologies provided by other third party vendors.

The Data Warehouse Developer (DWD) will provide hands-on design and development of Business Intelligence (BI)/ Data Warehouse solutions, by working closely with business process experts to translate requirements into solutions; manage delivery of solutions throughout the full cycle of the analytics projects; work with business end users to determine report requirements; write specifications based on user requirements, and designs. This individual will also support implemented infrastructure by actively monitoring and tuning the performance of queries, extracts, transformations and data loads ensuring data integrity, consistency and availability.

DISTINGUISHING CAREER FEATURES

The Data Warehouse Developer (DWD) is expected to work closely with business process stakeholders to gather requirements for analytical data reporting. The incumbent should be able to convert business requirements into detailed requirements documents. The DWD will be able to employ requirements documents to interrogate source systems and to design the dimension and fact tables necessary to back-end the analytics engine. The DWD will design and implement custom data sources that allow business analysts to create ad hoc queries. The DWD will design and deliver the end user reports that address the business needs as outlined in the requirements document. The DWD will be adept at quickly mastering back end design tools and the design interface of the analytics engine. The incumbent should have strong communication and presentation skills with the ability to articulate processes and solutions to technical and non-technical audiences.

The Data Warehouse Developer (DWD) should demonstrate the ability to architect data, conform and integrate school and business data from multiple source systems and to develop and deliver advanced decision support applications that address the needs of the community of business units.

ESSENTIAL DUTIES AND RESPONSIBILITIES

- Participate in the definition, development and implementation of analytics solutions, data warehouse and data mart databases using SQL Server Integration Services (SSIS), Analysis Services (SSAS), Reporting Services (SSRS), and SQL Server Data Tools and other third party tools as required.

- Translate requirements, source mapping documents and models into solutions.
- Design, develop, test, optimize and deploy ETL processes which may consist of batch load packages, workflow processes, stored procedures, related functions and various scripting tasks.
- Design, develop, test, optimize and deploy solutions which may consist of transactional/real-time integrations, workflow processes, and related functions and various scripting tasks.
- Work with the larger Technology team to help develop and uphold data governance policies and procedures to ensure standardized data naming, establish consistent data definitions and monitor overall data quality.
- Ensure that data management methodologies include the steps, activities, and deliverables required to consistently achieve high quality data.
- Ensure that the applications adhere to defined data management practices, policies and procedures
- Develop decision support models for business and instructional simulations, “what-if” scenarios, cost-benefit analysis, and forecasting. Develop statistical, linear programming, valuation, and other models in spreadsheet, database, and standalone executable formats.
- Utilize the District’s Project Management software for maintaining the status of projects assigned, ensuring accuracy of the project timeline, storing project documentation including statement of work (SOW), Requirement document and communicating with project team.
- Act as project team lead or as a team member on projects by coordinating and otherwise involving staff members from multiple organizational units.
- Maintain current technical skills and systems knowledge while learning new technologies in a self-directed environment.
- Perform other duties as assigned that support the overall objective of the district.

QUALIFICATIONS

Knowledge and Skills: Requires knowledge of database application development, application system design, analysis, testing, and implementation. Requires advanced knowledge of SQL and the ability to quickly learn and utilize other third party tools. Requires the ability to understand multiple finance, payroll, academic support, and student data applications as well as business content management/collaboration and business intelligence tools. Requires knowledge of: data warehousing, programming, systems analysis, and systems development; and relational database concepts. Requires advanced problem solving and analytical skills. Requires the communication skills to consult with all levels of staff, conduct individual instruction, technical assistance, and apply understandable lines of questioning when trying to understand department needs or problems.

Abilities: Must be able to perform all of the relevant duties of the position with only general direction. Can work effectively in a team environment. Must be able to operate a variety of computer terminals, printers, and peripheral equipment. Requires the ability to analyze unique and highly technical problems and to develop and apply appropriate solutions. Requires the ability to perform a full range of systems analysis and complex applications programming duties. Must be able to analyze, design, program, install and maintain stored procedures and applications programs. Requires the ability to discuss technical information with users, discern their needs and develop solutions which meet those needs. Requires the ability to develop clear and precise documentation of technology procedures as it pertains to the systems supported. Must be able to communicate technical and complex information to ‘non-technical’ users. Requires the ability to provide training to end users. Must be able to read, understand and apply information from technical manuals. Must be able to prioritize work in order to meet deadlines and maintain schedules. Requires the ability to flow chart, organize, and lead development projects.

Physical Abilities: Incumbent must be able to function effectively indoors engaged in work of primarily a sedentary nature. Requires the ability to sit for extended periods of time to accomplish data entry and desk work. Requires sufficient arm, hand, and finger dexterity in order to use a personal computer keyboard, multi-media presentation, and other office equipment. Requires normal hearing and speaking skills to communicate with staff in one-on-one and small group settings, and distinguish sound prompts from equipment. Requires visual acuity to read printed materials and computer screens.

Education and Experience: Position requires a combination of education and experience equivalent to a Bachelor's degree in a computer science or engineering discipline plus six years of experience in designing programming and implementing database applications. . Two of the six years must be in a product development capacity. Alternatively, a Master's Degree and two years of development experience will meet the requirements of this position.

Licenses and Certificates: May require a valid driver's license.

Working Conditions: Work is performed indoors where minimal safety considerations exist.