

SQL DEVELOPER

DEFINITION

Responsible for the design, development, documentation, programming, and maintenance of SQL-based applications.

TYPICAL DUTIES

Develops and maintains SQL objects and reports.
Determines and documents technical requirements for application systems, including system module interface and report design, unit test plans, and test cases.
Supports all phases of the software development cycle including requirements gathering, analysis, design, testing, implementation, and production.
Develops, debugs, and tests system interfaces and reports based on user requirements and input from subject matter experts.
Leads and facilitates design sessions and code walk-throughs.
Creates database release deployment scripts and builds database objects.
Develops and maintains documentation on all database build procedures, guidelines, methods, and standards.
Trains other staff members to ensure consistency in the development processes.
Provides recommendations regarding further definition of development standards and application architecture.
Performs unit testing and assists in user testing of interface or report modifications.
Develops and maintains effective partnerships with various client groups in order to meet project needs.
Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

A SQL Developer designs, develops, programs, and maintains complex and critical SQL-based applications based on District and customer needs and modifies and maintains existing SQL applications.

A Web Architect directs and manages global architecture activities analyzes existing business practices and develops workflow improvements and conducts feasibility studies for the development and maintenance of web applications. A Web Architect supervises Web Developers assigned to small units or working on portions of a large project.

A Programmer Analyst performs responsible systems analysis and programming on complex projects, assists higher-level programmer analysts on the most complex projects, and may provide work direction and technical assistance to assigned personnel.

SUPERVISION

General direction is received from a Technical Specialist or Senior Technical Project Manager. Supervision is received from a Web Architect. No supervision is exercised.

CLASS QUALIFICATIONS

Knowledge of:

- SQL Server including Transact-SQL, stored procedures, functions, views, triggers, indexes, query tuning, SSIS, and RDBMS
- SQL server reporting services management, configuration, and deployment
- Principles of database design, development, data modeling, and large data sets
- Large data partitioning, bulk operations, XML, and flat file processing
- ETL tools such as DTS or SSIS
- Object oriented programming in JAVA or .NET
- Technical documentation
- Project management and project tracking

Ability to:

- Analyze problem situations, define problems, identify relevant factors and relationships, formulate solutions, and recognize the implications of those solutions
- Develop SQL queries of medium to high complexity
- Develop, deploy and/or maintain reports and Microsoft SQL Integration Services (SSIS) packages using Microsoft SQL Server Reporting Services (SSRS) 2008 and/or higher
- Apply industry best practices to ensure the maintainability of each application
- Seek new technologies and ideas to improve the development environment
- Read and create UML diagrams
- Manage multiple concurrent projects
- Express difficult concepts orally and in writing in a clear and concise manner that is understandable to technical and non-technical personnel
- Plan work assignments and estimate needs for staff and time
- Work effectively with all levels of District personnel and the public
- Write technical documentation
- Work under pressure and time constraints
- Work independently with minimum supervision

ENTRANCE QUALIFICATIONS

Education:

Graduation from a recognized college or university with a bachelor's degree, preferably in Computer Science, Information Technology, or a related field. Additional qualifying experience may be substituted on a year-for-year basis for up to two years of the required education provided that the requirement of a high school diploma or equivalent is met.

Experience:

Three years of experience in software and database development using transactional SQL, stored procedures, and RDBMS in a 2008 SQL Server R2 or later environment.

OR

Two years of LAUSD experience working in software and database development using transactional SQL, stored procedures, and RDBMS in a 2008 SQL Server R2 or later environment and one year experience working in a technical capacity that involved working knowledge of school business processes, policies, and terminologies. The experience may be concurrent.

Special:

A valid California Driver License is required.
Use of an automobile.

SPECIAL NOTES

Employees in this class are subject to call at any hour.

This class description is not a complete statement of essential functions, responsibilities, or requirements. Requirements are representative of the minimum level of knowledge, skill, and/or abilities. Management retains the discretion to add or change typical duties of a position at any time.

Revised
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SJ