

KERN COUNTY SUPERINTENDENT OF SCHOOLS
REVISED/APPROVED MAY 2022
RANGE: 55.0
CLASSIFIED
CODE: NONE

DATABASE SPECIALIST II

DEFINITION

Under general supervision, provide database development and database support to Kern County Superintendent of Schools Office employees and school district employees.

Conduct database needs assessments, modify existing databases, assist with development of new databases, and/or assist with migration of existing systems to integrated relational database systems.

The Database Specialist II will also make modifications to existing database systems in support of report generation for users.

The Database Specialist II will provide technical assistance and training to end users on new systems;

provide technical assistance;

provide troubleshooting diagnostics, and provide user support in person or via telephone and electronic messaging.

EXAMPLES OF DUTIES

Under general supervision the Database Specialist II may be responsible for database system analysis and design;

database design, development, and programming to support user reporting and information resource storage;

design, develop, and build new datamodles, ETL processes and complex SQL queries to meet business rule requirements;

graphical user interface design;

identify, correct, and audit database system problems to ensure data accuracy;

install or replace database systems and maintain system integrity;

evaluate and modify existing database applications;

verify correct system operation;

ensure compliance with office database development standards;

provide review and consultation on database software products to make and support recommendations to internal departments and client districts;

conduct in-service programs and classes for management and clerical personnel on database applications;

work cooperatively with management, administrators, district partners, and team members to solve complex challenges;

attend training sessions to learn database applications, management systems, and operating environments;

create and refine documentation for internal departments and district partners;

perform other general database support duties as assigned.

QUALIFICATIONS

Knowledge of:

Data engineering principles;

computer systems, software, and tools as they pertain to database administration and development;

cloud storage and development platforms (i.e. Azure, AWS, etc.);

database management systems and database management tools such as Microsoft SQL server, Microsoft SQL Server Management Studio, and SQL Server Integration Services;

database performance tuning and optimization;

general testing and debugging methods and database management techniques;

ANSI SQL and supersets as applied in high-volume multiuser SQL-based systems;

cross-platform issues and solutions;

data and systems security standards and practices.

Ability to:

Develop advanced SQL queries and stored procedures within Microsoft SQL server and other database management systems;

design, develop, and debug ETL processes;

program in two or more of the following languages, SQL, R, Python, JavaScript, PHP, Go, or Node.js;

ability to develop and maintain computer programs/scripts;

document, service, and maintain database systems;

design, structure, and organize large scale data sets into data warehouse data models;

maintain cooperative liaisons with district and county personnel;

conduct in-service training in the use of relational database systems and standard client/server software.

Experience:

Minimum of three (3) years of experience working with relational database systems and SQL in an applied setting which may include any or all of the following experiences-software application;

development and customizing;

database application development and database modeling (Object role modeling);

or application development with high-volume database management systems like Microsoft SQL Server, MySQL, Oracle, or PostgreSQL;

any combination of the above experiences is acceptable with demonstrated proficiency in major Microsoft applications and with at least one year of experience programming in R, Python, JavaScript, Go, or Node.js;

ability to work with both on-prem and cloud based systems.

Education:

Graduate from a four-year college or university with a Bachelor's degree in computer science or related field;

OR

work experience in a comparable position can be substituted on a year-to-year basis in place of post high school education requirement.

A four-year degree in business administration or other related field, with appropriate supporting experience, is acceptable.

Conditions of employment:

Some positions may require proof of privately owned automobile insurance and possession of a valid California Motor Vehicle operator's license which must be maintained for the duration of the assignment.

Fingerprint clearance by both the Federal Bureau of Investigation and the California Department of Justice is a condition of appointment after all other required job conditions have been met.

Must present verification of completion of Child Abuse Mandated Reporter training or obtain verification within six (6) weeks of hire and annually thereafter, as required by the California Child Abuse and Neglect Reporting Act.

This position has a probationary period of six months or 130 days, whichever is longer.

CP: mm

5/6/22

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