# SANTA CLARA COUNTY OFFICE OF EDUCATION Personnel Commission

### CLASS TIT:LIBATAENGINEERSENIOR

#### **BASIC FUNCTION:**

Under the direction of the ManagerData Systems, designs, develops, implements and maintains data warehousing applications and other data systems for the Santa Clara County Office of Education (SCCOE), districts, schools, and partners; provides technical direction and assistance to the data systems technical team; supports esearch, data analysis and data driven decisinating, which includes, but is not limited to defining metrics, reports, and analysis.

#### **DISTINGUISHING CHARACTERISTICS:**

Incumbentswork independently with limited direction in a faptaced env-reaching impact. Imake bents recommendations for improvement regarding dayday operations, and assist in guiding, training, and leading the activities of data systems technical team members.

#### REPRESENTATIVE DUTIES:

The following duties are examples of assignments performed by incumbents in this classification. It is not totally comprehensive list of duties, nor is it restrictive regarding job assignments.

## **ESSENTIAL DUTIES:**

Designs and builds new data models and associated **extract**ransformation and loa(ETL) processes including facilitation of source system data mapping sessions.

Maintains and troubleshoots existing data models and associated ETL processes.

Develops and tests Business Intelligence (BI) solutions such as stextabaeries, views, reports, and dashboards.

Ensures the accuracy, privacy, reliability, security and accessibility of data in the data warehouse; participates in and facilitates the data governance process by enforcing data integrity and data security guidelines and recommending process improvements.

Assists in data conversions, imports, and exports of data within and between internal and external software systems, including data to and from multiple student information systems, assessments and vendors.

Assist the SCCOE data services management team in building and managing a wide variety of data sets.

Performs detailed data validation and audits for data residing in the data warehouse; performs cause analysis and roubleshooting for data issues when required; created documents criteria for assessing data issues and opportunities.

Anticipates potential problems and developpsolutions needed to resolve them; systemically analyze relationships between apparently independent problems and issuesidentifies trends as well as isolated events.

Assistsin developing and establishing standard procedures and best practices for the data systems technical team; researchs and implements new technologies; provided echnical direction and assistance to the data systems technical team.

Participates in scheduling and task monitoring to assure timely completion of projects/ides guidance and technical assistance to staff in the resolution timelines for projects to assure compliance with project delivery dates.

Develops and maintains effective working relationships with school districts and vendors; eduscanted trainsdistrict users and othes to use the data as an analytical tool, displaying the information in new form and content for the purpose of analysis and exploring options.

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