GCP CDA Module 2 - Video 4 Summary

Cloud data analytics has revolutionized data management by automating processes and enabling real-time access to integrated data sources. This summary highlights key concepts introduced in the video, with beginner-friendly explanations.

Data Integration: Combines data from different sources into a single, usable data source using ETL or ELT processes.

ETL (Extract, Transform, Load): Transforms data before loading it into the cloud data warehouse.

ELT (Extract, Load, Transform): Loads data into the cloud data warehouse first, then transforms it.

Data Ingestion: Obtains, imports, and processes data for later use or storage via stream or batch ingestion.

Stream Ingestion: Processes data in real-time as it is collected.

Batch Ingestion: Processes data in predefined intervals or larger chunks.

Cloud Storage Types: Includes file data, object data, and block data for storing different types of information.

Cloud Analytics Tools: Includes web interfaces, APIs, SQL, Pub/Sub, Looker, and Jupyter Notebooks for accessing and analyzing cloud data.

Cloud Data Analytics Benefits: Improves efficiency, reduces human error, and enables real-time access and analysis of integrated data sources.