

Curso Data Engineer: Creando un pipeline de datos

Agenda

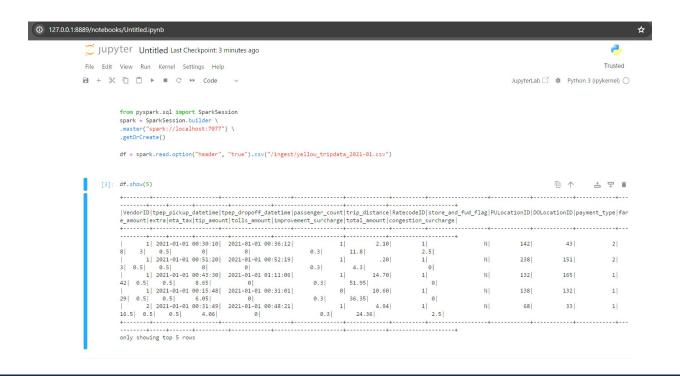


- Jupyter Notebook
- GCP Ingest
- Transform
- Ejercicios

Jupyter Notebooks

Jupyter Notebook

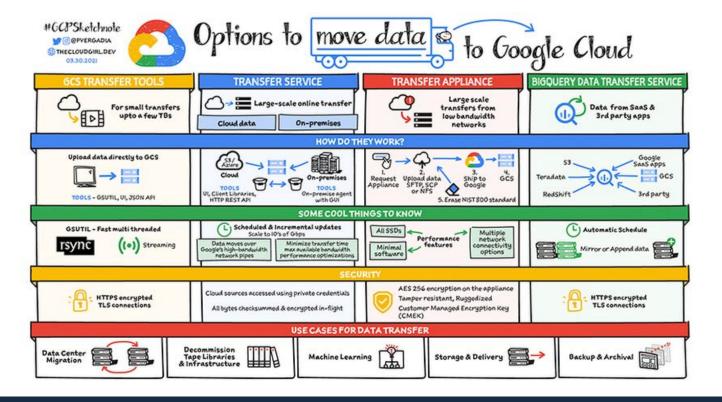




GCP Ingest

Ingest





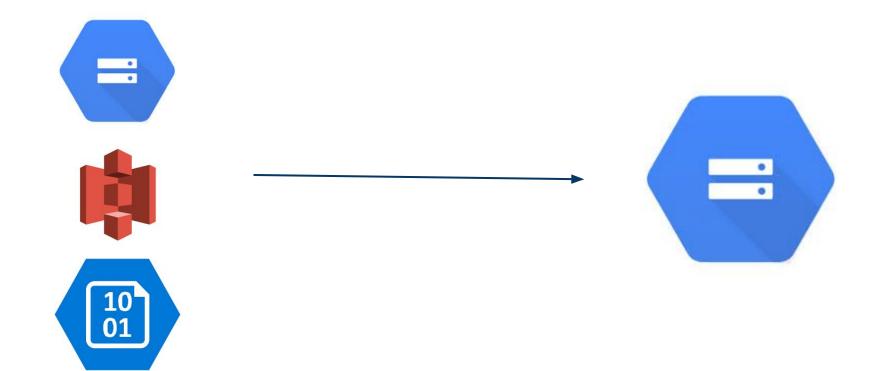
gsutil



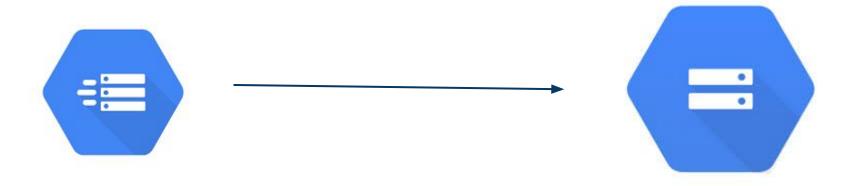




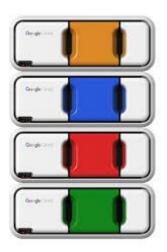
transfer service - data transfer



transfer appliance



transfer appliance

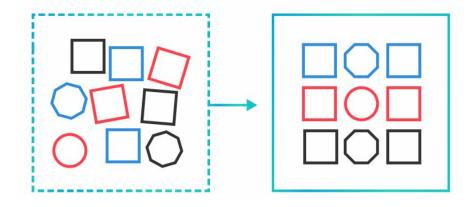




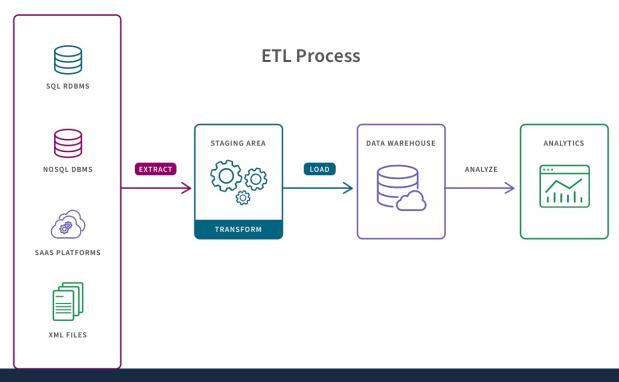




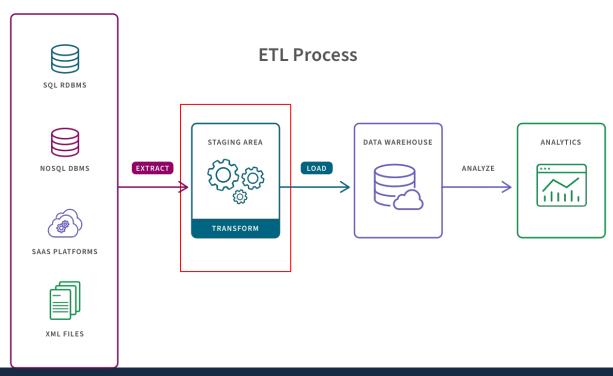
Es el proceso de convertir, limpiar y estructurar datos en un formato utilizable que se pueda analizar para respaldar los procesos de toma de decisiones.

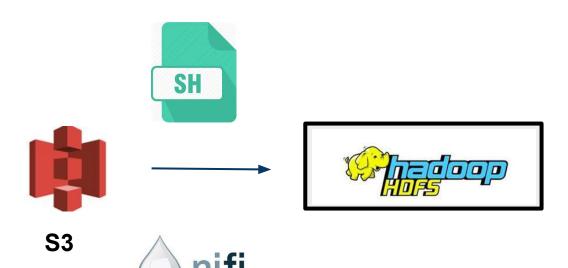


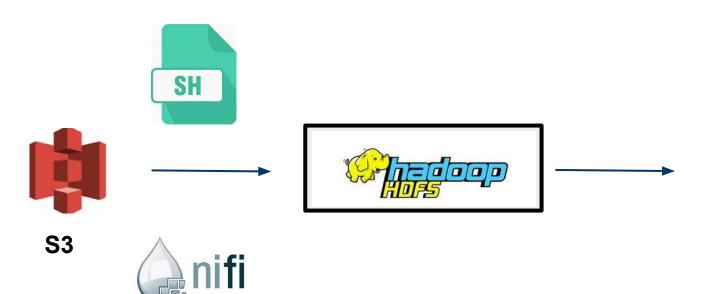


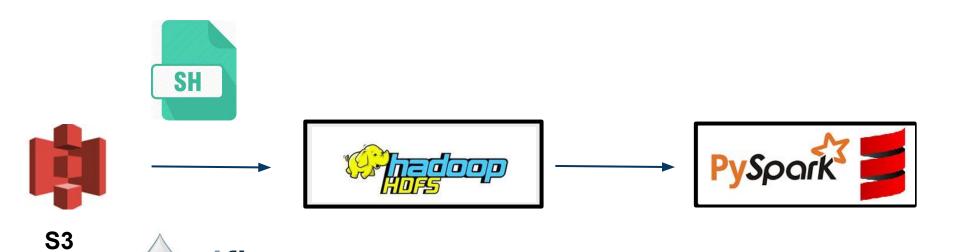


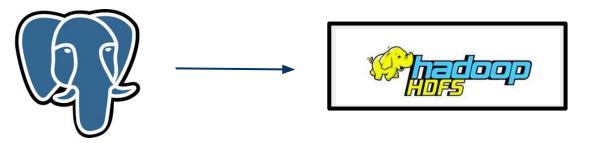




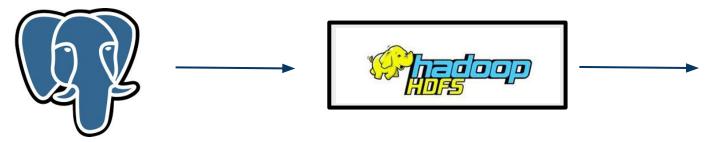












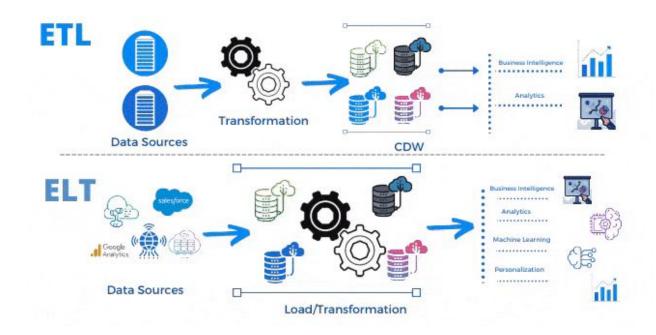






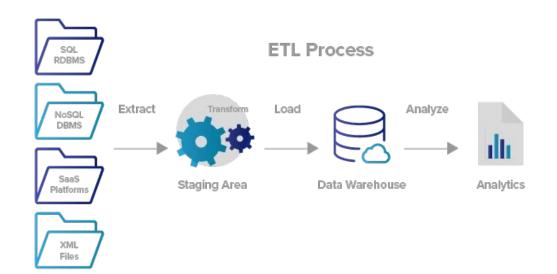
ETL VS ELT





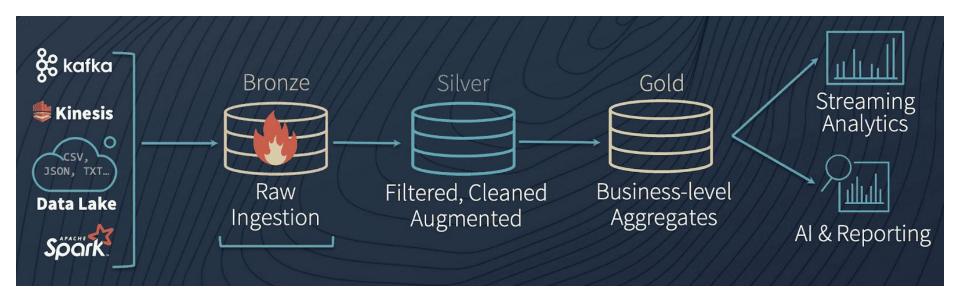
ETL





ELT

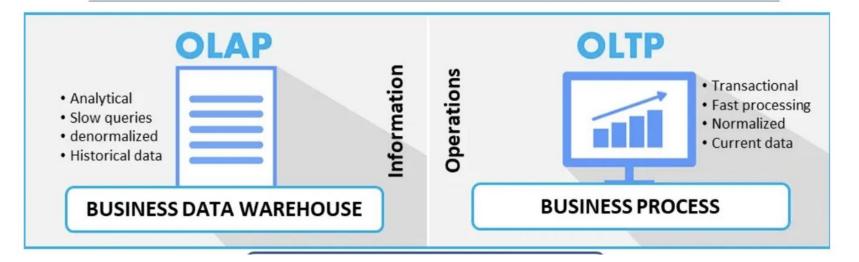




Online Analytical Processing Vs Online Transaction Processing



OLAP Vs OLTP



On line Analytical Processing Vs On line Transaction Processing



Students						Courses	
id	student_name					id	course_name
1	Juan García					1	SQL
2	José Perez					2	Python
3	Alberto Quiroga					3	R
						4	Java
			Students				
		Date	id_student	id_courses	mark		
		11/01/2022	1	1	7		
		10/25/2022	1	2	6		
		10/28/2022	2	4	6		
		10/03/2022	3	3	5		

ETL



- 1. Con Sqoop hago un export en archivos parquet/text/avro, etc.
- 2. Ingesto esos archivos en HDFS (hdfs dfs -put origen destino)
- 3. Transformo esos archivos con pyspark/scala/sql
- 4. Cargo esos datos en el Data Warehouse (Hive)

OLAP

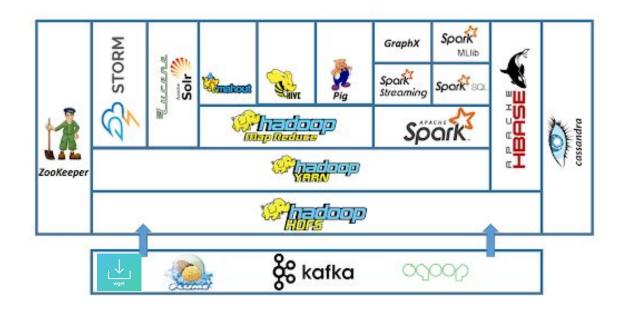


	Marks									
	Date	student	courses	mark	assist					
	11/01/2022	Juan García	SQL	7	100					
5	10/25/2022	Juan García	Python	6	93					
	10/28/2022	José Perez	Java	6	95					
	10/03/2022	Alberto Quiroga	R	5	80					

Ejercicio

Ecosistema Hadoop





Ejercicios



- GCP
 - Creación de cuenta y configuración de consola
 - Ingesta de archivos con Gsutil
 - Storage transfer