[Google] Data Engineering on Google Cloud Platform

No	모듈	강의 및 실습 내용	시간

1	01_Modernizing Data Lakes and Data Warehouses with GCP	- 01_Introduction_to_Data_Engineering
		  [Lab : Analyzing Data with BigQuery]
		- 02_Building_a_Data_Lake
		  [Lab : Loading Taxi Data into Cloud SQL]
		- 03_Building_a_Data_Warehouse
		  [Lab : Loading Data into BigQuery]
		  [Lab : Working with JSON and Array Data in BigQuery]
			10

2	02_Building Batch Data Pipelines on GCP	- 01_Introduction_to_Building_Batch_Data_Pipelines
		- 02_Executing_Spark_on_Dataproc
		  [Lab: Running Apache Spark jobs on Dataproc]
		- 03_Serverless_Data_Processing_with_Dataflow
		  [Lab : A Simple Dataflow Pipeline (Python)]
		  [Lab : MapReduce in Beam (Python)]
		  [Lab : Side Inputs (Python)]
		- 04_Manage_Data_Pipelines_with_Cloud_Data_Fusion_and Cloud_Composer
		  [Lab: Building and Executing a Pipeline Graph in Cloud Data Fusion]
		  [Lab: An Introduction to Cloud Composer]
			10

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3	03_Building Resilient Streaming Analytics Systems on GCP	- 01_Introduction - 02_Serverless_Messaging_with_Pub_Sub 　[Lab: Publish Streaming Data into Pub/Sub] - 03_Dataflow_Streaming_Features 　[Lab: Streaming Data Pipelines] - 04_High-Throughput_BigQuery_and_Bigtable_Streaming_Features 　[Lab: Streaming Analytics and Dashboards] 　[Lab: Streaming Data Pipelines into Bigtable] - 05_Advanced_BigQuery_Functionality_and_Performance 　[Lab: Optimizing your BigQuery Queries for Performance] 　[Lab: Partitioned Tables in BigQuery]	10
4	04_Smart Analytics, Machine Learning, and AI on Google Cloud	- 01_Introduction_to_Analytics_and_AI - 02_Prebuilt_ML_model_APIs_for_Unstructured_Data 　[Lab: Using the Natural Language API to Classify Unstructured Text] - 03_Big_Data_Analytics_with_Notebooks 　[Lab: BigQuery in JupyterLab on Vertex AI] - 04_Production_ML_Pipelines 　[Lab: Running Pipelines on Vertex AI] - 05_Custom_Model_building_with_SQL_in_BigQuery_ML 　[Lab: Predict Bike Trip Duration with a Regression Model in BigQuery ML] 　[Lab: Movie Recommendations in BigQuery ML] - 06_Custom_Model_building_with_AutoML(Option)	10