DAILY ASSESSMENT FORMAT

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Course:	IOT-coursera	USN:	4AL17EC080
Topic:	Week-1,2	Semester & Section:	6th sem&B sec

Github repository	Roshni-online		

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FORENOON SESSION DETAILS (9.00am to 1.00pm)

Explore

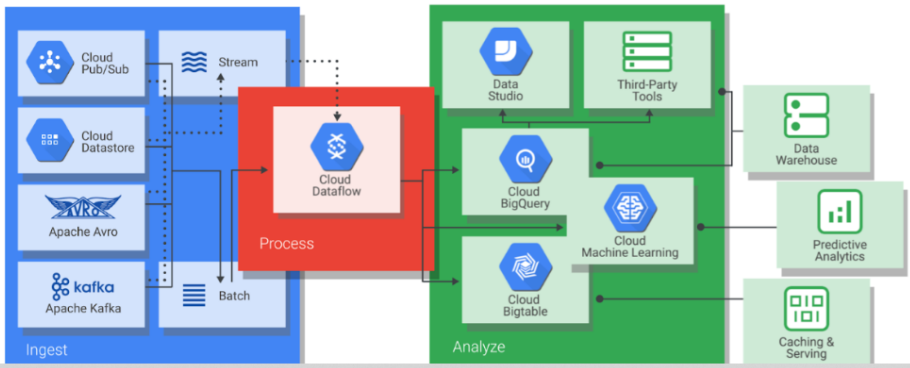
What do you want to learn?

latform > Week 1 > Introduction to Dataflow

Introduction to Dataflow

In this lesson you learn about Cloud Dataflow. Cloud Dataflow is a fully managed service for transforming and enriching data in stream (real time) or batch (historical) modes. This means you don't have to do complex workarounds or compromise your pipeline design.

Cloud Dataflow uses a serverless approach to resource provisioning and management. You can access virtually limitless capacity to solve your biggest data processing challenges, while paying only for what you use.



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What do you want to learn?

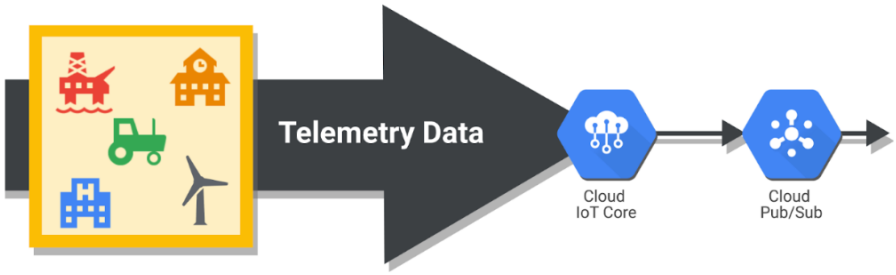
Bindushri

'eek 1 › Streaming Analytics with Cloud Functions

Prev

Streaming Analytics with Cloud Functions

IoT events and data can be sent to the cloud at a high rate and need to be processed quickly. For many IoT applications, the decision to place the device into the physical environment is made in order to provide faster access to data. For example, fruit exposed to high temperatures during shipping may become damaged. Using data gathered from IoT devices, the produce can be flagged and disposed of immediately.



xplore

What do you want to learn?

Bindu

rm › Week 1 › Google Provided Templates

Google Provided Templates

In this course you use the Google provided templates. These templates can be found in the Google Cloud Platform Console. In this lesson you will use these provided templates to complete the lab.

Cloud Dataflow Templates for data processing

Source	Destination
Cloud Bigtable	Cloud Storage SequenceFile
Cloud Pub/Sub	BigQuery
Cloud Pub/Sub	Cloud Storage Text
Cloud Pub/Sub	Cloud Pub/Sub
Cloud Storage Text	Cloud Pub/Sub - batch
Cloud Storage Text	Cloud Pub/Sub - stream
Cloud Storage Text	BigQuery
Cloud Storage Text	Cloud Datastore
Cloud Datastore	Cloud Storage Text
Cloud Storage SequenceFile	Cloud Bigtable
Cloud Spanner	Cloud Storage Avro

rm/.../streaming-analytics-with-cloud-functions

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Congratulations! You passed!

TO PASS 50% or higher

Keep Learning

Retake the assignment in **7h 58m**

GRADE
100%

Dataflow

LATEST SUBMISSION GRADE
100%

1. Dataflow jobs can be created with Google supplied templates. What are the steps for setting up a 'Pub/Sub to GCS text' pipeline? **1 / 1 point**

   - ○ Select the Cloud Pub/Sub to GCS Text template and create a storage bucket.
   - ○ Create a PubSub Topic and then select the GCS to Text template.
   - ◉ Create a Pub/Sub topic, a storage bucket, select the Pub/Sub to GCS text template.

   Correct
   Yes, you need to have a Pub/Sub topic to publish messages and a bucket to store the text.

2. Which of the following statements is a characteristic of Dataflow? **1 / 1 point**

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Explore

What do you want to learn?

:form > Week 2 > Module Introduction

Module Introduction

Save Note Discuss Download

English

Help Us Translate

cloud-platform/lecture/d9Rbj/query-basics

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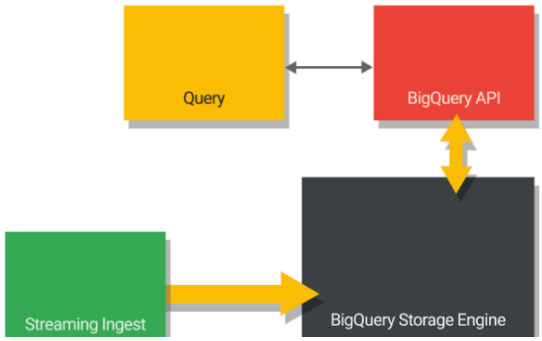
BigQuery Queries Overview

By now you have watched the three videos on BigQuery; an overview of BigQuery, BigQuery fundamentals, and BigQuery queries. Before you begin the lab, let's just do a quick review on BigQuery queries.

To use BigQuery, your data needs to be in a BigQuery table. For IoT streaming data, you can store data in a BigQuery table using the template, "Pub/Sub to BigQuery". You need to either create a destination table or use template tables before you start streaming data.

Once the data is in a BigQuery dataset, you can query it. You can also include data from other sources



query-with-simulated-data

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✓ **Congratulations! You passed!**

TO PASS 60% or higher

Keep Learning

GRADE
66.66%

BigQuery

LATEST SUBMISSION GRADE

66.66%

1. You are designing an IIoT network to monitor crowd movements at a baseball stadium. When the average walking speed of the crowd drops below 1ft/second, additional gates will open.

   You are sending the data from the gate sensors to BigQuery every minute. Which type of query should you use for this task?

   1 / 1 point

   - ○ Batch query
   - ◉ Interactive query

   ✓ **Correct**
   Yes, an interactive query is executed as soon as possible

2. You are using the Pub/Sub-to-BigQuery Dataflow template. In the schema for the BigQuery table you mistype a field name. You type passengr instead of passenger

   0 / 1 point

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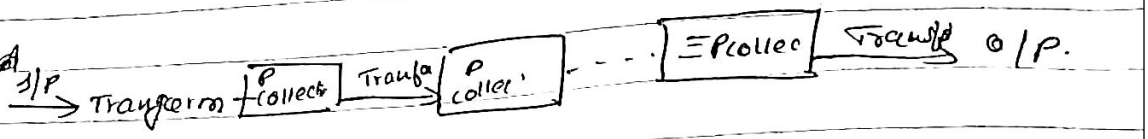
IoT

Google cloud pipelines

- cloud functions
- Apache Beam SDK - based pipelines
- Cloud Dataflow templates.



Dataflow lab prep

1. create a storage bucket in your project
2. upload text file to the bucket
3. use the cloud Data template to create & execute the pipeline.
4. Review the word count in the files created in your bucket

Three ways to interface with BigQuery

① web UI

② command-line interface (CLI)

③ REST API

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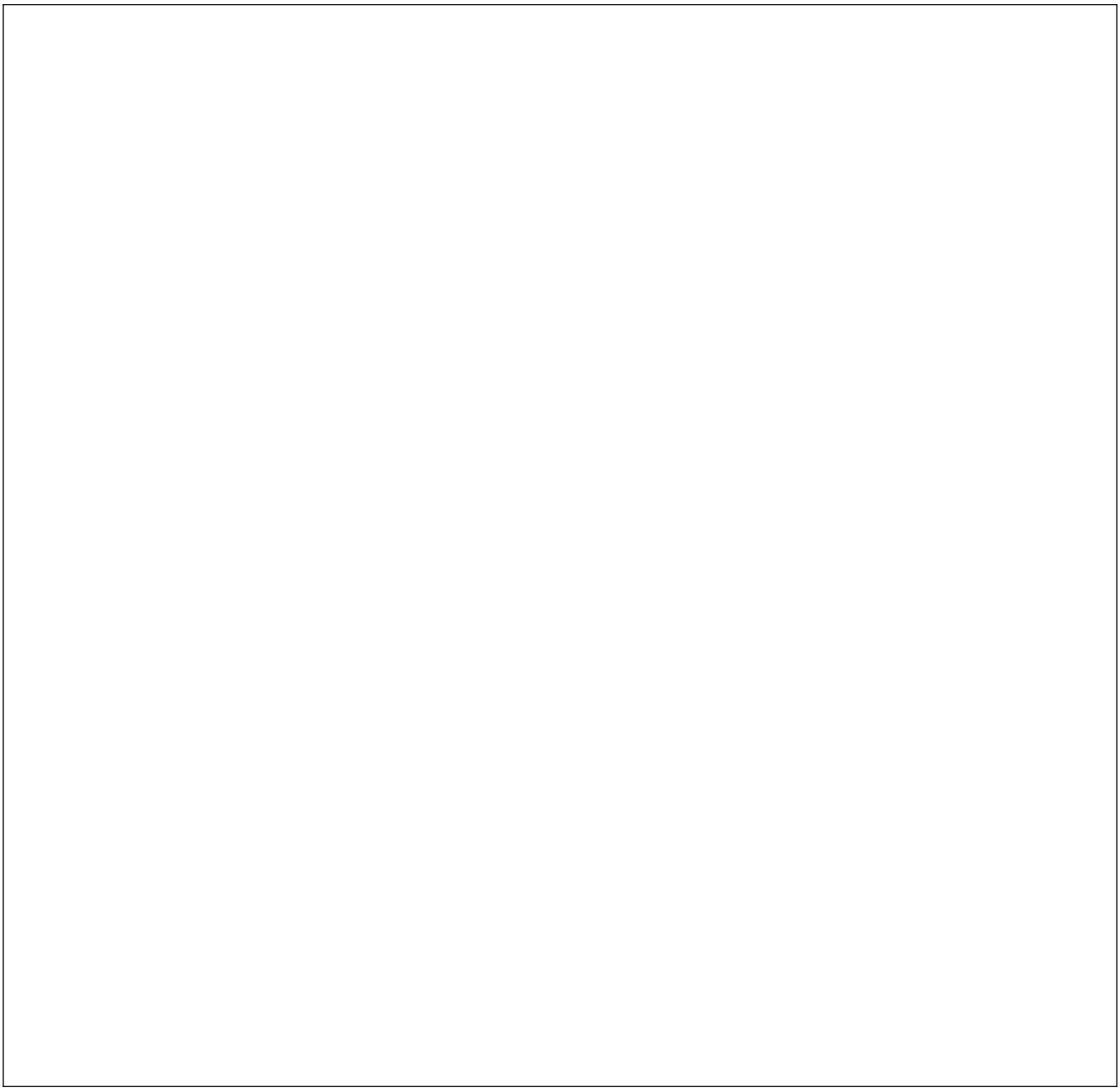

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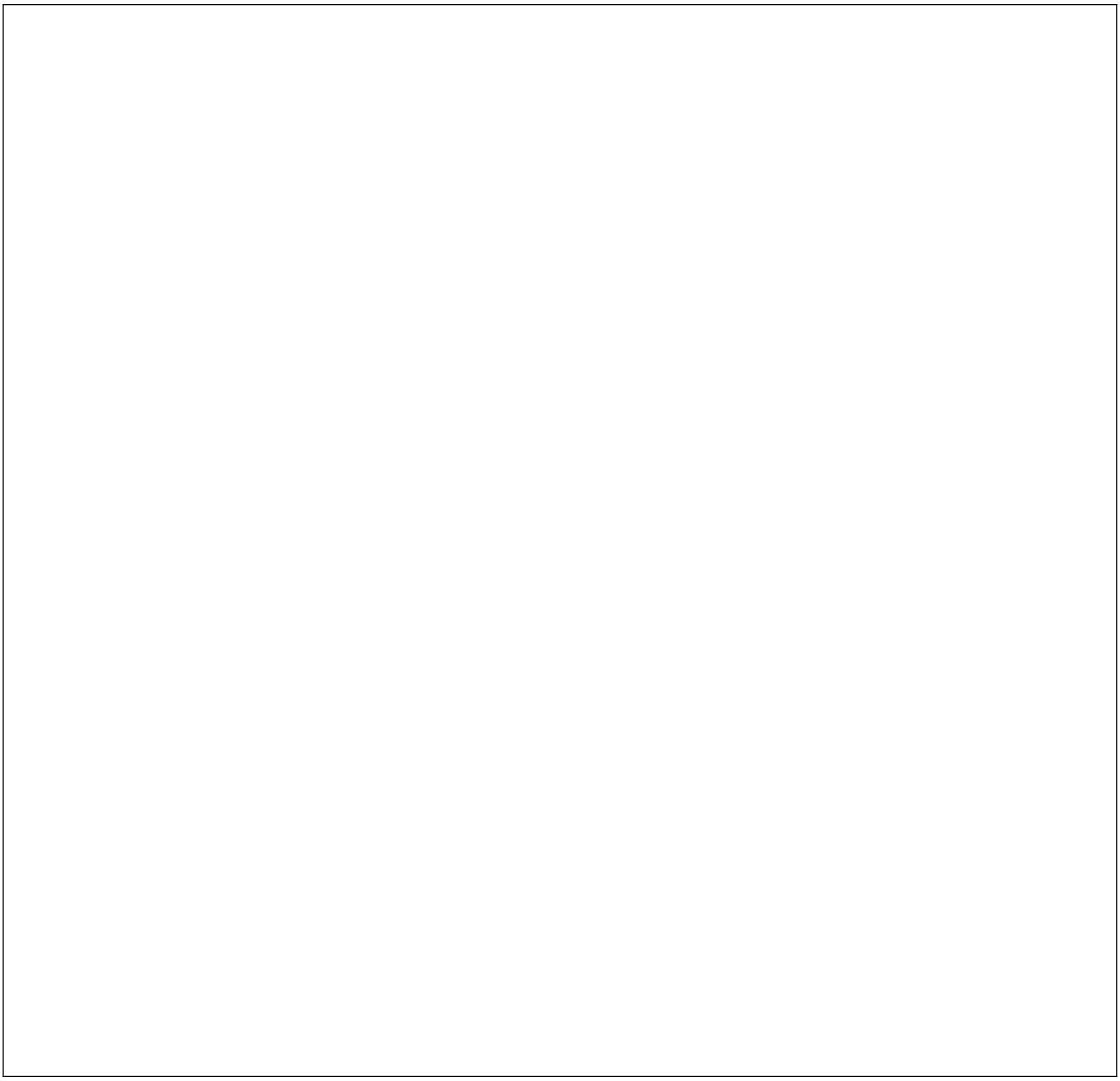

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