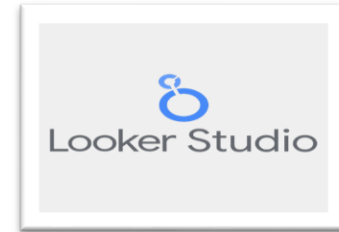
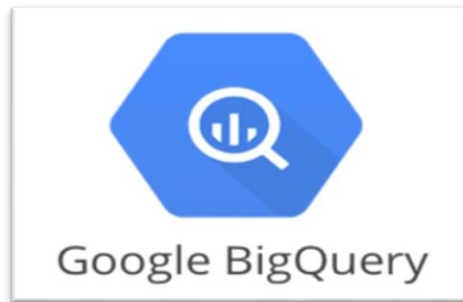
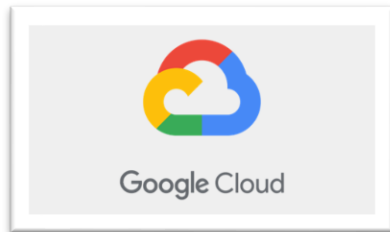


Analytics/Visuals on Employees from a data pipeline in GCP with BigQuery and Looker Studio





Lead Software Engineer



**MD. Iqbal
Mahmud**

PurgeX

Agenda Overview

The objective of this project is to develop an automated data pipeline on Google Cloud Platform (GCP) that ingests data from a CSV file, processes it in BigQuery, and visualizes the results in Looker Studio. This pipeline will ensure that new data entries are added as new rows in BigQuery, and existing rows are updated whenever changes occur in the CSV file.

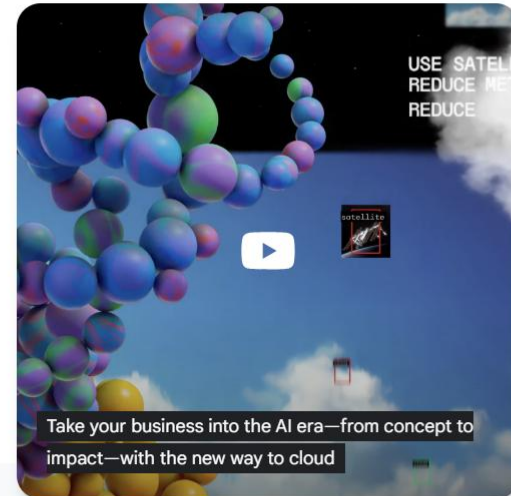
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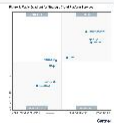
[What's new in AI](#)

[Developers](#)

[Business leaders](#)

REPORT

Google named a leader in Gartner® Magic Quadrant™ for Strategic Cloud Platform Services



NEW PRODUCT

Try Gemini 1.5 models to build with up to a 2M token context window



BLOG

Check out the latest updates in generative AI on Vertex AI





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to continue to Google Cloud Platform

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iqbalmahmuddxb@gmail.com

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[Create account](#)

[Next](#)

English (United States)

[Help](#) [Privacy](#) [Terms](#)

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[Add tax information](#)

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charge

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Add credit or debit card

Card number

4170

MM/YY

Security code


Cardholder name

Md Iqbal Mahmud

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[Cancel](#) [Save card](#)

Payment method

 Visa [Change](#)

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Welcome - My First Project - G x +

console.cloud.google.com/welcome?project=hardy-audio-440600-q2

Google Cloud My First Project

Search (/) for resources, docs, products, and more Search

Select a project

NEW PROJECT

Search projects and folders

RECENT STARRED ALL

	Name	ID
✓ ☆ ⚙	My First Project ?	hardy-audio-440600-q2

CANCEL

You're working in My First Project

Project number: 42208290

Dashboard Recommended

Create a VM

Quick access

APIs & Services

Cloud Storage

VIEW ALL PRODUCTS

our most advanced
Gemini 1.5 Pro

mini

te Engine

etes Engine

New Project



You have 11 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

BigQuery



Project ID: bigquery-440600. It cannot be changed later. [EDIT](#)

Location *

No organization

[BROWSE](#)

Parent organization or folder

[CREATE](#)

[CANCEL](#)

Select a project

[NEW PROJECT](#)

Search projects and folders



RECENT

STARRED

ALL

	Name	ID
☆	BigQuery	bigquery-440600
✓ ☆	My First Project	hardy-audio-440600-q2

[CANCEL](#)

cloud.google.com/welcome?project=bigquery-440600

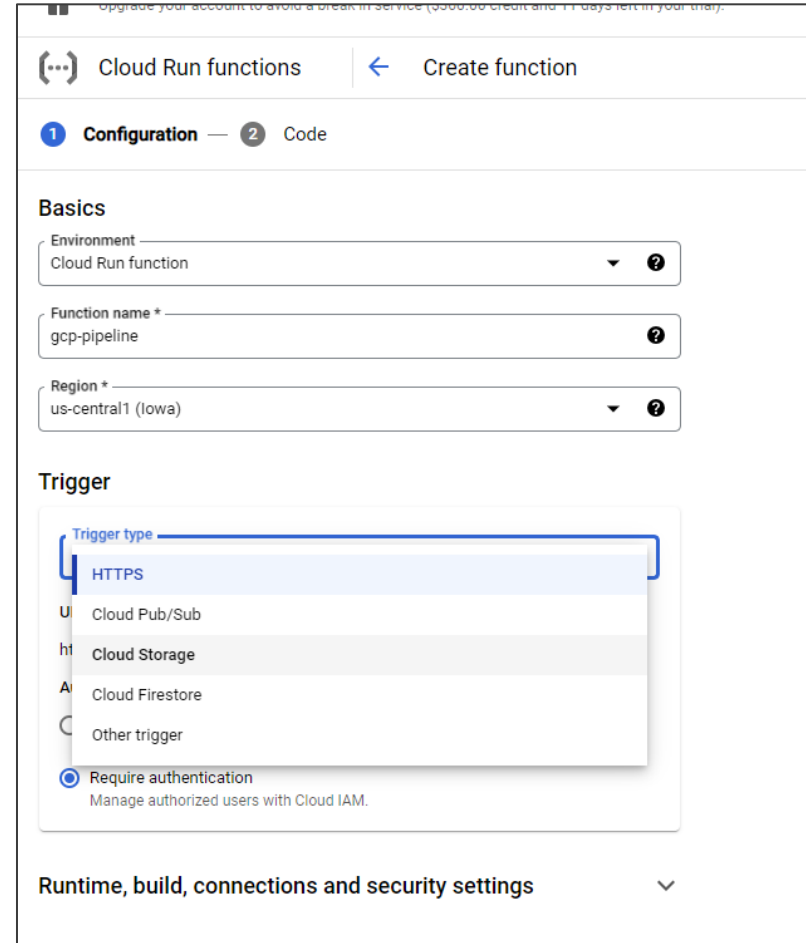
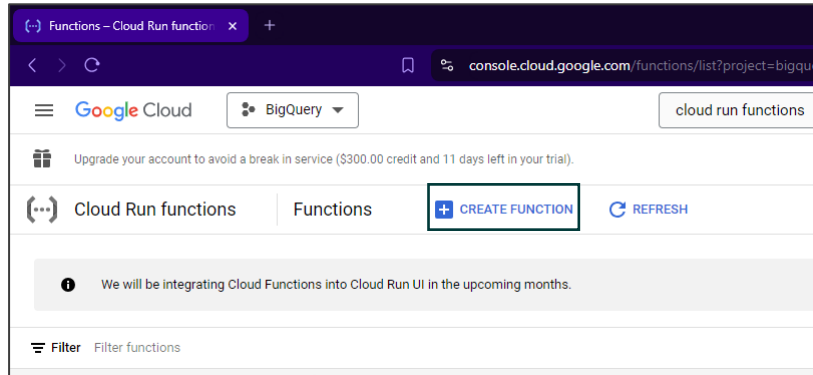
cloud run functions

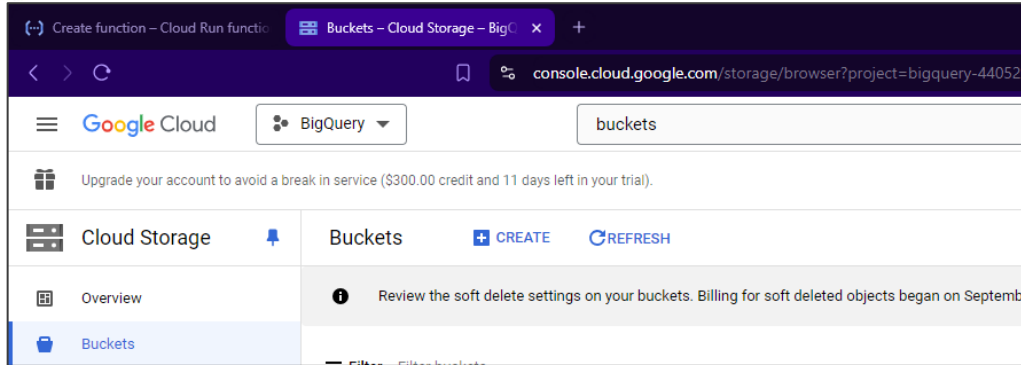
cloud run functions

SEARCH RESULTS

- Cloud Run functions
Event-driven serverless functions
- Cloud Run
Serverless for containerized applications
- Cloud Functions
Google
- Invoke Cloud Run functions or Cloud Run | Workflows
Calling or invoking a Google Cloud service such as Cloud Run...
- TypeDB Cloud
TypeDB
- Process images by running the Cloud Functions
Interactive Tutorial
- Create a Cloud Run function by using the ...
Cloud Run functions is a serverless execution environment for...
- RackWare Disaster Recovery & Backup
RackWare Inc
- Hugo on Ubuntu 20.04
Apps4Rent LLC
- FortiGate Next-Generation Firewall (PAYG)
Fortinet Inc.

Showing resource results for BigQuery only





✓ Get Started

Name: gcp-pipeline-lq-logic

• Choose where to store your data

This choice defines the geographic placement of your data and affects cost, performance, and availability. Cannot be changed later. [Learn more](#)

Location type

☒ Multi-region

Highest availability across largest area

us (multiple regions in United States)

☐ Add cross-bucket replication via Storage Transfer Service

As data is added or changed, replicate it to another bucket, enabling you to store a copy that follows different bucket settings - e.g., region, storage class, etc. [Learn more](#)

☐ Dual-region

High availability and low latency across 2 regions

☐ Region

Lowest latency within a single region

CONTINUE

• Get Started

Pick a globally unique, permanent name. [Naming guidelines](#)

gcp-pipeline

Tip: Don't include any sensitive information

Optimize storage for data-intensive workloads

Labels (optional)

CONTINUE

• Choose a storage class for your data

A storage class sets costs for storage, retrieval, and operations, with minimal differences in uptime. Choose if you want objects to be managed automatically or specify a default storage class based on how long you plan to store your data and your workload or use case. [Learn more](#)

☐ Autoclass ?

Automatically transitions each object to Standard or Nearline class based on object-level activity, to optimize for cost and latency. Recommended if usage frequency may be unpredictable. Can be changed to a default class at any time. [Pricing details](#)

☒ Set a default class

Applies to all objects in your bucket unless you manually modify the class per object or set object lifecycle rules. Best when your usage is highly predictable.

☒ Standard ?

Best for short-term storage and frequently accessed data

☐ Nearline

Best for backups and data accessed less than once a month

☐ Coldline

Best for disaster recovery and data accessed less than once a quarter

☐ Archive

Best for long-term digital preservation of data accessed less than once a year

CONTINUE

• Choose how to control access to objects

Public access prevention: On

Access control: Uniform

Default storage class: Standard

- **Choose how to control access to objects**

Prevent public access

Restrict data from being publicly accessible via the internet. Will prevent this bucket from being used for web hosting. [Learn more](#)

☒ Enforce public access prevention on this bucket

Access control

☒ **Uniform**
Ensure uniform access to all objects in the bucket by using only bucket-level permissions (IAM). This option becomes permanent after 90 days. [Learn more](#)

☐ **Fine-grained**
Specify access to individual objects by using object-level permissions (ACLs) in addition to your bucket-level permissions (IAM). [Learn more](#)

[CONTINUE](#)

- **Choose how to protect object data**

Your data is always protected with Cloud Storage but you can also choose from these additional data protection options to add extra layers of security.

Data protection

☒ **Soft delete policy (For data recovery)**
When enabled, this bucket and its objects will be kept for a specified period after they're deleted and can be restored during this time. [Learn more](#)

☒ **Use default retention duration**
All buckets have a 7 day soft delete duration by default, unless this default has been customized by your organization administrator.

☐ **Set custom retention duration**
Specify how long this bucket and its objects should be retained after they're deleted. Setting a "0" duration disables soft delete, meaning any deleted objects will be permanently deleted.

☐ **Object versioning (For version control)**
For restoring deleted or overwritten objects. To minimize the cost of storing versions, we recommend limiting the number of noncurrent versions per object and scheduling them to expire after a number of days. [Learn more](#)

☐ **Retention (For compliance)**
For preventing the deletion or modification of the bucket's objects for a specified period of time.

▼ **DATA ENCRYPTION**

[CREATE](#) [CANCEL](#)

of your bucket. [Pricing details](#)

Current configuration: Multi-region / Standard

Public access will be prevented

This bucket is set to prevent exposure of its data on the public internet.

Keep this setting enabled unless you have a use case that requires public access (such as static website hosting). You can change it now or later. [Learn more](#)

☒ Enforce public access prevention on this bucket

☐ Don't show this message again

[CANCEL](#) [CONFIRM](#)

Cloud Storage

Overview

Buckets

Monitoring

Settings

Buckets

+ CREATE

REFRESH

Review the soft delete settings on your buckets. Billing for soft deleted objects began on September 1st.

Filter

Filter buckets

<div><input type="checkbox"/></div> <div>Name ↑</div>	Created	Location type	Location	Default storage class ?
<div><input type="checkbox"/></div> <div>gcf-sources-629995143921-us-central1</div>	Nov 3, 2024, 2:15:51 AM	Region	us-central1	Standard
<div><input type="checkbox"/></div> <div>gcf-v2-sources-629995143921-us-centra...</div>	Nov 3, 2024, 1:08:39 AM	Region	us-central1	Standard
<div><input type="checkbox"/></div> <div>gcf-v2-uploads-629995143921-us-centra...</div>	Nov 3, 2024, 1:08:35 AM	Region	us-central1	Standard
<div><input type="checkbox"/></div> <div>gcp-pipeline-</div>	Nov 3, 2024, 5:04:36 AM	Multi-region	us	Standard
<div><input type="checkbox"/></div> <div>input_sample_pipeline_iq</div>	Nov 3, 2024, 3:45:11 AM	Multi-region	us	Standard
<div><input type="checkbox"/></div> <div>input_sample_pipeline_iq_temp</div>	Nov 3, 2024, 3:45:45 AM	Multi-region	us	Standard

Create function - Cloud Run fu x temp_gcp~...-iq-logic - Buckets - C +

console.cloud.google.com/

Google Cloud BigQuery

Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Cloud Run functions Create function

1 Configuration 2 Code

Basics

Environment
Cloud Run function

Function name *
gcp-pipeline

Region *
us-central1 (Iowa)

The region you have selected (us-central1) is different from the Eventarc trigger source region (us). By selecting this option, you acknowledge that your event data may be moved across regions.

Trigger

Trigger type
Cloud Storage

Event Type
google.cloud.storage.object.v1.finalized

Bucket * BROWSE

☐ Retry on failure

MORE OPTIONS

Runtime, build, connections and security settings

NEXT CANCEL

Select bucket

Buckets

- gcf-sources-629995143921-us-central1
- gcf-v2-sources-629995143921-us-central1
- gcf-v2-uploads-629995143921-us-central1
- gcp-pipeline**
- input_sample_pipeline_iq
- input_sample_pipeline_iq_temp
- temp_gcp-pipeline

SELECT CANCEL

Runtime, build, connections and security settings

RUNTIME BUILD CONNECTIONS SECURITY AND

Memory allocated * 256 MiB

CPU * 0.167

Timeout * 540 seconds

Concurrency

Maximum concurrent requests per instance 1

Autoscaling

Minimum number of instances 0

Maximum number of instances 59

Runtime service account

NEXT CANCEL

Cloud Run functions ← Create function

✓ Configuration — 2 Code

Runtime

- PHP 7.4
- Python 3.12
- Python 3.11
- Python 3.10

Entry point *
helloGCS

Press Alt+F1 for A

```
1 const func
2
3 // Registe
4 // be trig
```

Create function — Cloud Run funcio temp_gcp...-iq-logic — Buckets — C BigQuery — BigQuery — Google x

console.cloud.google.com/bigquery?referrer

Google Cloud BigQuery Search (/)

Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Explorer + ADD K

Search BigQuery resources

Viewing resources.
SHOW STARRED ONLY

- bigquery-440520
 - Queries
 - Notebooks
 - Data canvases
 - Data preparations
 - Workflows
 - External connections
 - sample_pipeline

Create new

- SQL QUERY
- PYTHON NOTEBOOK

Create dataset

Refresh contents

Upload to project

Change my default code region

Try with sample data

employee_st
US : bigquery-
OPEN

Create dataset

Make sure all fields are correct to continue

Project ID *
bigquery-440520 CHANGE

Dataset ID *
gcp_pipeline_iqlogic
Letters, numbers, and underscores allowed

Location type

☐ Region
Specify a region to colocate your datasets with other Google Cloud services.

☒ Multi-region
Allow BigQuery to select a region within a group to achieve higher quota limits.

Multi-region *
US (multiple regions in United States)

External Dataset

The selected region supports the following external dataset types: Cloud Spanner

☐ Link to an external dataset

Default table expiration

☐ Enable table expiration

Default maximum table age Days

Tags

Advanced options

CREATE DATASET CANCEL

Explorer + ADD K

gcp_pipe... gic

gcp_pipeline


Search BigQuery resources

Viewing resources.
SHOW STARRED ONLY

- bigquery-440520
 - Queries
 - Notebooks
 - Data canvases
 - Data preparations
 - Workflows
 - External connections
 - gcp_pipeline
 - sample_pipeline

Dataset info

Dataset ID	bigquery-440520.gcp_pipeline
Created	Nov 3, 2024, 5:11:05 AM UTC+4
Default table expiration	Never
Last modified	Nov 3, 2024, 5:11:05 AM UTC+4
Data location	US
Description	
Default collation	
Default rounding mode	ROUNDING_MODE_UNSPECIFIED
Time travel window	7 days

 Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Cloud Run functions

← Create function

✓ Configuration — 2 Code

Runtime
Python 3.11 ▾ ?Entry point *
main ?

TEST FUNCTION


Source code
Inline Editor ▾

main.py ...

requirements.txt

Press Alt+F1 for Accessibility Options.

```
1 import functions_framework
2 import re
3
4 # Libraries
5 from google.cloud import bigquery
6
7 # Construct a BigQuery client object.
8 client = bigquery.Client()
9
10 stage_table_id = "bigquery-440520.scp_pipeline.employee_stage"
11 table_id = "bigquery-440520.sample_pipeline.employee"
12
13 file_pattern = r".*sample_[0-9]{8}\.csv$"
14
15 table_schema = [
16     bigquery.SchemaField("id", "STRING"),
17     bigquery.SchemaField("name", "STRING"),
18     bigquery.SchemaField("birth_date", "STRING"),
19     bigquery.SchemaField("occupation", "STRING"),
20     bigquery.SchemaField("gender", "STRING"),
21 ]
22
23 # Triggered when file is created in storage bucket
24 @functions_framework.cloud_event
25 def main(cloud_event):
26     data = cloud_event.data
27
28     bucket = data["bucket"]
29     name = data["name"]
30
31     print(f"Bucket: {bucket}")
32     print(f"File: {name}")
33
34     if not re.match(file_pattern, name):
35         print(f'{name} not match file_pattern')
36     return
37
```

 Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

(...) Cloud Run functions

← Create function

✓ Configuration — 2 Code

Runtime
Python 3.11



Entry point *
main



TEST FUNCTION

Source code
Inline Editor



Add file

main.py

requirements.txt



Press Alt+F1 for Accessibility Options.

```
1 functions-framework==3.*  
2 google-cloud-bigquery==3.9.0
```

Browser tabs: Create function - Cloud Run fu x temp_gcp-...-iq-logic - Buckets - C gcp_pipeline_iqlogic - BigQuery - B +

Address bar: console.cloud.google.com/functions/add?project=bigquery-440520

Google Cloud BigQuery cloud run functions Search

Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Cloud Run functions Create function

Configuration — 2 Code

Runtime Python 3.11

Source code Inline Editor

- main.py
- requirements.txt
- merge.sql

Entry point * main

TEST FUNCTION

Press Alt+F1 for Accessibility Options.

```
1 CREATE TABLE IF NOT EXISTS $table_id (  
2   id STRING,  
3   name STRING,  
4   birth_date STRING,  
5   occupation STRING,  
6   gender STRING  
7 );  
8  
9 MERGE `$table_id` P  
10 USING `$stage_table_id` N  
11 ON P.id = N.id  
12 WHEN MATCHED THEN  
13   UPDATE SET name = N.name, birth_date = N.birth_date, occupation = N.occupation, gender = N.gender  
14 WHEN NOT MATCHED THEN  
15   INSERT (id, name, birth_date, occupation, gender) VALUES(id, name, birth_date, occupation, gender)
```


Google Cloud BigQuery cloud run functions

Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Cloud Run functions Function details EDIT DELETE COPY

Deploying function

Build Build in progress
Service Pending
Trigger Pending

Deploying function

gcp-pipeline Cloud Run function (Deployment started at Nov 3, 2024, 5:14:56 AM) URL: https://us-central1-bigquery-440520.cloudfunctions.net/gcp-pipeline

View in Cloud F gcp-pipeline

Google Cloud BigQuery cloud run functions

Upgrade your account to avoid a break in service (\$300.00 credit and 11 days left in your trial).

Cloud Run functions Function details EDIT DELETE COPY

gcp-pipeline Cloud Run function (Deployed at Nov 3, 2024, 5:16:19 AM) URL: https://us-central1-bigquery-440520.cloudfunctions.net/gcp-pipeline

View in gcp-plp

METRICS DETAILS SOURCE VARIABLES TRIGGER PERMISSIONS LOGS TESTING

Logs Severity Default Filter Search all fields and values

SEVERITY	TIMESTAMP	SUMMARY
		Scanned up to 8/26/24, 7:59 PM. Scanned 5.3 MB.
	2024-11-03 05:14:56.659 GST	Cloud Run CreateInternalService gcp-pipeline service-629995143921@gcf-admin-robot... (@type: type.googleapis.com/google.cloud.audit.AuditLog, authenticationInfo: {...}, authorizationInfo: [...], methodName: google.cloud.serverless.
	2024-11-03 05:14:56.956 GST	Cloud Functions CreateFunction us-central1:gcp-pipeline badhangsmbd@gmail.com (@type: type.googleapis.com/google.cloud.audit.AuditLog, authenticationInfo: {...}, authorizationInfo: [...], methodName: google.cloud.functions.v2.Funct

Bucket details

gcp-pipeline

Location: us (multiple regions in United States) | Storage class: Standard | Public access: Not public | Protection: Soft Delete

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE | OBSERVABILITY

Folder browser

Buckets > gcp-pipeline

CREATE FOLDER | **UPLOAD** | TRANSFER DATA

Filter by name prefix only

Upload files | Upload folder

No rows to display

console.cloud.google.com wants to open

< > > Downloads > Sample Data > Data

Organise | New folder

OneDrive - Personal

Desktop | Downloads | Documents | Pictures | Music

Today

Name	Date modified	Type	Size
sample_20230103.csv	03/11/2024 4:29 AM	Comma Separate...	
sample_20230102.csv	03/11/2024 4:21 AM	Comma Separate...	
sample_20230101.csv	03/11/2024 4:01 AM	Comma Separate...	

gcp-pipeline

Location: us (multiple regions in United States) | Storage class: Standard | Public access: Not public | Protection: Soft Delete

OBJECTS | CONFIGURATION | PERMISSIONS | PROTECTION | LIFECYCLE | OBSERVABILITY | INVENTORY REPORTS | OPERATIONS

Folder browser

Buckets > gcp-pipeline

CREATE FOLDER | **UPLOAD** | TRANSFER DATA | OTHER SERVICES

Filter by name prefix only | Filter | Filter objects and folders

Show Live objects only

Name	Size	Type	Created	Storage class	Last modified	Public access	Version history	Encrypt
sample_20230101.csv	662 B	text/csv	Nov 3, 2024, 5:18:10 AM	Standard	Nov 3, 2024, 5:18:10 AM	Not public	—	Google

Explorer
+ ADD
<

Search BigQuery resources ?

Viewing resources.

[SHOW STARRED ONLY](#)

- bigquery-440520
 - Queries
 - Notebooks
 - Data canvases
 - Data preparations
 - Workflows
 - External connections
 - gcp_pipeline_
 - employee**
 - employee_stage
 - sample_pipeline

SUMMARY

employee

bigquery-440520.gcp_pipeline

Last Nov 3, 2024, 5:18:17 AM

employee
QUERY
SHARE
COPY
SNAPSHOT
DELETE
EXPORT

	SCHEMA	DETAILS	PREVIEW	TABLE EXPLORER	INSIGHTS	LINEAGE	DATA PROFILE	DATA QUALITY
Row	id		name		birth_date		occupation	gender
1	12		Carol		01/25/1987		Journalist	F
2	10		Julie		06/21/1982		Programmer	F
3	18		Maryann		11/13/1983		Psychiatrist	F
4	20		Luana		07/15/1976		Doctor	F
5	6		Renata		04/02/1981		Nurse	F
6	4		Anna		07/31/1989		Programmer	F
7	2		Mary		09/12/1992		Engineer	F
8	14		Bruna		08/01/1994		Designer	F
9	16		Camille		02/06/1980		Teacher	F
10	8		Fernanda		12/27/1975		Psychologist	F
11	13		Matthew		05/07/1979		Entrepreneur	M
12	11		Raphael		10/09/1995		Student	M
13	15		Fabio		12/18/1986		Pharmacist	M
14	7		Luke		08/19/1993		Architect	M
15	19		Pete		03/30/1998		Student	M
16	1		John		05/23/1985		Doctor	M
17	17		Andrew		06/22/1991		Engineer	M
18	3		Joe		02/08/1978		Lawyer	M
19	5		Paul		11/17/1996		Student	M
20	9		Gus		03/14/1990		Veterinarian	M

lookerstudio.google.com/navigation/reporting

Looker Studio

Search Looker Studio

Create

Recent Reports Data sources Explorer

Recent

Shared with me

Owned by me

Trash

Templates

Start with a Template

Blank Report
Looker Studio

GA4 Report
Google Analytics

Acme Marketing
Google Analytics

Search Console Report
Search Console

Google Ads Overview
Google Ads

Name

Owned by anyone

Last opened by me

Connect to data My data sources

Search

Google Connectors (22)
Connectors built and supported by Looker Studio [Learn more](#)

Looker
By Google
Connect to your Looker semantic models.

Google Analytics
By Google
Connect to Google Analytics.

Google Ads
By Google
Connect to Google Ads performance report data.

Google Sheets
By Google
Connect to Google Sheets.

BigQuery
By Google
Connect to BigQuery tables and custom queries.

File Upload
By Google
Connect to CSV (comma-separated values) files.

Microsoft Excel
By Google
Connect to Microsoft Excel files.


Amazon Redshift
By Google
Connect to Amazon Redshift.

Apigee **PREVIEW**
By Google
Connect to Apigee API analytics and monetization data.

Campaign Manager 360
By Google
Connect to Campaign Manager 360 data.

Cloud Spanner
By Google
Connect to Google Cloud Spanner databases.

Cloud SQL for MySQL
By Google
Connect to Google Cloud SQL for MySQL databases.

 Make your BigQuery reports load even faster with BigQuery BI Engine. [Learn More](#)



BigQuery

By Google

BigQuery is Google's fully managed, petabyte scale, low-cost analytics data warehouse. BigQuery charges for querying/processing of data. Those queries are charged to the credit card of the billing project.

[LEARN MORE](#)

[REPORT AN ISSUE](#)

RECENT PROJECTS

MY PROJECTS

SHARED PROJECTS

CUSTOM QUERY

PUBLIC DATASETS

Project

 Search Projects

Enter Project Id manually

BigQuery

My Project

Badhan

My First Project

Youtube API key

Dataset

 Search Datasets

gcp_pipeline_

sample_pipeline

Table

 Search Tables

employee

employee_stage

Cancel

Add

You are about to add data to this Report

 employee

Note that **Report Editors** can create charts using the new data source(s), and can add dimensions and metrics not currently included in the Report.

Users with access to the report can use its data to generate Google Slides that will be saved in Google Workspace

☐ Don't show me this again

CANCEL

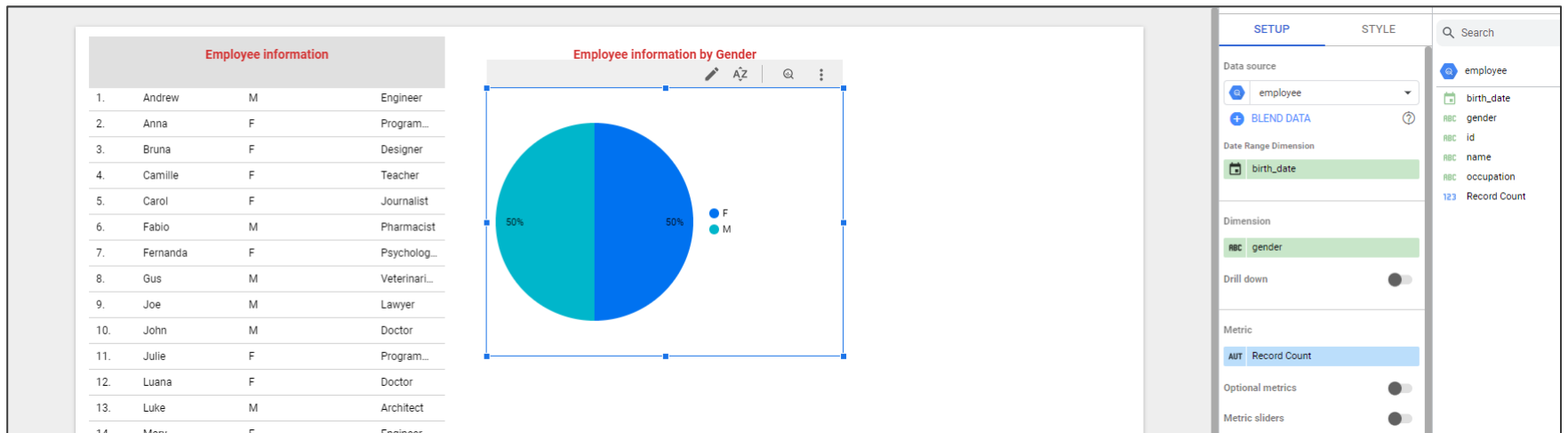
ADD TO REPORT

employee

employee_stage

+ Add quick filter		
	id	Record Count
1.	4	1
2.	16	1
3.	8	1
4.	13	1
5.	15	1
6.	7	1
7.	19	1
8.	17	1
9.	2	1

+ Add quick filter		
Employee information		
1.	Andrew	M
2.	Anna	F
3.	Bruna	F
4.	Camille	F
5.	Carol	F
6.	Fabio	M
7.	Fernanda	F
8.	Gus	M
9.	Joe	M



Cloud Storage

Bucket details

Overview

Buckets

Monitoring

Settings

gcp-pipeline-iq

Location: us (multiple regions in United States)

Storage class: Standard

Public access: Not public

Protection: Soft Delete

OBJECTS

CONFIGURATION

PERMISSIONS

PROTECTION

LIFECYCLE

OBSERVABILITY

Folder browser

gcp-pipeline-iq-logic

CREATE FOLDER

UPLOAD

TRANSFER DATA

Filter by name prefix only

Upload files

Upload folder

Filter objects

Name	Size
sample_20230101.csv	662 B

eDrive - Personal

Name

Date modified

Today

sample_20230103.csv

03/11/2023

sample_20230102.csv

03/11/2023

sample_20230101.csv

03/11/2023

Explorer

+ ADD

Search BigQuery resources

Viewing resources.

SHOW STARRED ONLY

bigquery-440520

Queries

Notebooks

Data canvases

Data preparations

Workflows

External connections

gcp_pipeline

employee

employee_stage

sample_pipeline

SUMMARY

employee

bigquery-440520.gcp_pipeline

Last modified: Nov 3, 2024, 5:18:17 AM UTC+4

Data: US

location

employee

QUERY

SHARE

COPY

SNAPSHOT

DELETE

EXPORT

SCHEMA

DETAILS

PREVIEW

TABLE EXPLORER

PREVIEW

INSIGHTS

LINEAGE

DATA PROFILE

DATA QUALITY

Row	id	name	birth_date	occupation	gender
1	22	Dawn C	07/15/1976	PM	F
2	23	Zara	07/15/1976	Doctor	F
3	25	Romela	07/15/1976	CEO	F
4	24	Zahid	07/15/1976	Engineer	M
5	21	Iqbal Mahmud	07/15/1994	Engineer	M
6	26	Bozlu	07/15/1976	Business	M
7	4	Anna	07/31/1989	Programmer	F
8	16	Camille	02/06/1980	Teacher	F
9	12	Carol	01/25/1987	Journalist	F
10	8	Fernanda	12/27/1975	Psychologist	F
11	10	Julie	06/21/1982	Programmer	F
12	18	Maryann	11/13/1983	Psychiatrist	F
13	2	Mary	09/12/1992	Engineer	F
14	14	Bruna	08/01/1994	Designer	F
15	20	Luana morgan	07/15/1976	Doctor	F
16	6	Renata	04/02/1981	Nurse	F
17	13	Matthew	05/07/1979	Entrepreneur	M
18	11	Raphael	10/09/1995	Student	M
19	7	Luke	08/19/1993	Architect	M
20	5	Paul	11/17/1996	Student	M
21	1	John	05/23/1985	Doctor	M
22	3	Joe	02/08/1978	Lawyer	M
23	9	Gus	03/14/1990	Veterinarian	M
24	17	Andrew	06/22/1991	Engineer	M
25	15	Fabio	12/18/1986	Pharmacist	M



File Edit View Insert Page Arrange Resource Help

Add page
 Add data
 Add a chart
 Add a control

 Theme and layout



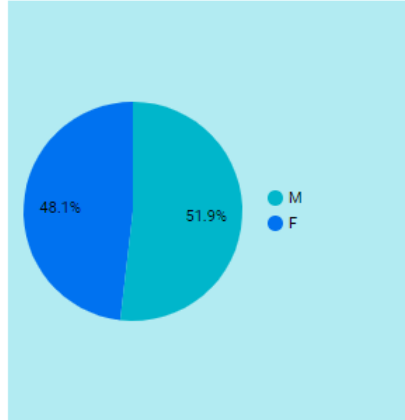
+ Add quick filter

Reset

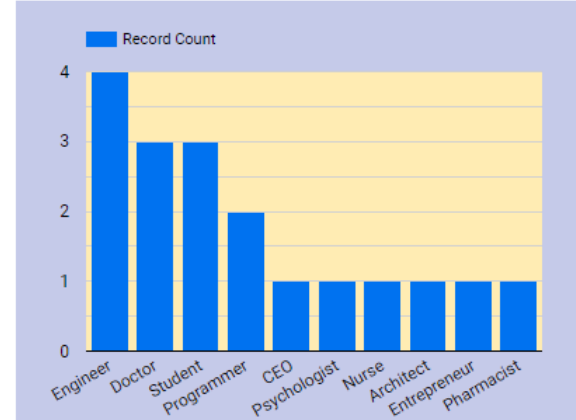
Employee information

1.	Andrew	M	Engineer
2.	Anna	F	Program...
3.	Bozlur	M	Business
4.	Bruna	F	Designer
5.	Camille	F	Teacher
6.	Carol	F	Journalist
7.	Dawn C	F	PM
8.	Fabio	M	Pharmacist
9.	Fernanda	F	Psycholog...
10.	Gus	M	Veterinari...
11.	Iqbal Mahmud	M	Engineer
12.	Joe	M	Lawyer
13.	John	M	Doctor
14.	Julie	F	Program...
15.	Luana morgan	F	Doctor
16.	Luke	M	Architect
17.	Mary	F	Engineer
18.	Maryann	F	Psychiatrist
19.	Matthew	M	Entrepren...
20.	Nazmul H	M	Private
21.	Paul	M	Student

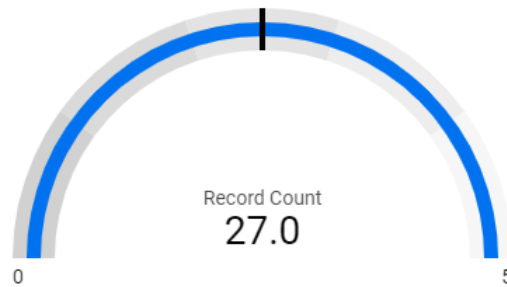
Employee information by Gender



Employee information by Gender



Total Employee



Thank You



PRACTICE:

1. SETUP YOUR ENVIRONMENT
2. DOWNLOAD CONFIGURATION FILES FROM
https://github.com/iqbalmbadhan/gcp_bigquery_looker
3. PICK A FILE FROM ANY PUBLIC DATASET
4. BUILD YOUR OWN DASHBOARD