Screenshot 1: Google Cloud Dashboard

Google Cloud | qwiklabs-gcp-04-8a43dec3284c ▼

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

DASHBOARD | ACTIVITY | RECOMMENDATIONS | ✎ CUSTOMIZE

Cloud overview
Products & solutions

PINNED

API APIs & Services
Billing
IAM & Admin
Marketplace
Compute Engine
Kubernetes Engine
Cloud Storage
BigQuery
VPC network
Cloud Run
SQL
Security

Project info
Project name
qwiklabs-gcp-04-8a43dec3284c
Project number
495333982405
Project ID
qwiklabs-gcp-04-8a43dec3284c

ADD PEOPLE TO THIS PROJECT

→ Go to project settings

Resources
BigQuery
Data warehouse/analytics
SQL
Managed MySQL, PostgreSQL, SQL Server
Compute Engine
VMs, GPUs, TPUs, Disks
Storage
Multi-class multi-region object storage
Cloud Functions
Event-driven serverless functions
App Engine

API APIs
Requests (requests/sec)
1.0
0.8
0.6
⚠ No data is available for the selected time frame.
0.4
0.2
0
11:45   12 PM   12:15   12:30

→ Go to APIs overview

Google Cloud Platform status
Google Kubernetes Engine
GPU device plugin component version 0.1.11-gke.1 causing missing GPU features in 1.23 and 1.24
Began at 2023-07-11 (15:05:14)
Google Kubernetes Engine
Customers may see unexpected additional messages in GKE cluster logs.
Began at 2023-07-06 (07:34:18)
All times are US/Pacific
Data provided by status.cloud.google.com

→ Go to Cloud status dashboard

Billing
Estimated charges   USD $0.00
For the billing period Jul 1 – 12, 2023
Take a tour of billing

→ View detailed charges

Monitoring
Create my dashboard

Screenshot 2: BigQuery SQL Workspace

Google Cloud | qwiklabs-gcp-04-8a43dec3284c ▼

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

BigQuery

Explorer   + ADD

Analysis
SQL workspace
Data transfers
Scheduled queries
Analytics Hub
Dataform
Partner Center

Migration
Assessment
SQL translation

Administration
Monitoring
Capacity management
BI Engine
Release Notes

Type to search
Viewing workspace resources.
SHOW STARRED ONLY
▶ qwiklabs-gcp-04-8a43dec3284c ☆

Untitled ✕

Welcome to your SQL Workspace!

Get started

⊞ COMPOSE A NEW QUERY   ⊞ ADD

Try with sample data

Try the Google Trends Demo Query
This simple query generates the top search terms in the US from the Google Trends public dataset.

OPEN THIS QUERY   VIEW DATASET

Add your own data

Local file
Upload a local file
LAUNCH THIS GUIDE

Google Drive
Google storage service
LAUNCH THIS GUIDE

Google Cloud Storage
Google object storage service
LAUNCH THIS GUIDE

PERSONAL HISTORY   PROJECT HISTORY   ↻ REFRESH

Explorer

Type to search

🔍 san francisco bike share ✕ ❓

Found 2 results.

SEARCH ALL PROJECTS

▼ bigquery-public-data ☆ ⋮
  ▼ 🔳 san_francisco_bikeshare ☆ ⋮
     📊 bikeshare_regions ☆ ⋮
     📊 bikeshare_station_info ☆ ⋮
     📊 bikeshare_station_status ☆ ⋮
     📊 bikeshare_trips ☆ ⋮

🏠 ▾ ✕ 🔍 *Untitled ▾ ✕ 📊 bikeshare_trips ▾ ✕ ➕   🏠 ⓘ ⌨ 💡▾ ⛶

📊 **bikeshare_trips**   🔍 QUERY ▾   👥 SHARE   📋 COPY   ⊞ SNAPSHOT   🗑 DELETE   ⬆ EXPORT ▾   🔄 REFRESH

SCHEMA   DETAILS   PREVIEW   LINEAGE

≡ Filter   Enter property name or value   ❓

☐	Field name	Type	Mode	Key	Collation	Default Value	Policy Tags ❓	Description
☐	trip_id	STRING	REQUIRED					Numeric ID of bike trip
☐	duration_sec	INTEGER	NULLABLE					Time of trip in seconds
☐	start_date	TIMESTAMP	NULLABLE					Start date of trip with date and time, in PST
☐	start_station_name	STRING	NULLABLE					Station name of start station
☐	start_station_id	INTEGER	NULLABLE					Numeric reference for start station
☐	end_date	TIMESTAMP	NULLABLE					End date of trip with date and time, in PST
☐	end_station_name	STRING	NULLABLE					Station name for end station

Row	trip_id	duration_sec	start_date	start_station_name	start_station_id	end_date
1	1129385	6079	2016-03-18 10:33:00 UTC	Mezes	83	2016-03-18 12:14
2	1006032	264	2015-11-11 18:07:00 UTC	Redwood City Caltrain Station	22	2015-11-11 18:11
3	938968	180	2015-09-21 09:29:00 UTC	Redwood City Caltrain Station	22	2015-09-21 09:32
4	969469	225	2015-10-13 18:51:00 UTC	Redwood City Caltrain Station	22	2015-10-13 18:55
5	939668	241	2015-09-21 17:33:00 UTC	Redwood City Caltrain Station	22	2015-09-21 17:37
6	1004458	265	2015-11-10 18:08:00 UTC	Redwood City Caltrain Station	22	2015-11-10 18:13
7	940890	279	2015-09-22 11:56:00 UTC	Redwood City Caltrain Station	22	2015-09-22 12:00
8	110072	87	2013-11-27 17:55:00 UTC	Japantown	9	2013-11-27 17:57
9	363635	1375	2014-07-15 00:07:00 UTC	Japantown	9	2014-07-15 00:30
10	62904	235	2013-10-17 23:15:00 UTC	Japantown	9	2013-10-17 23:19
11	1099748	4128	2016-02-20 17:19:00 UTC	Japantown	9	2016-02-20 18:28
12	527834	1527	2014-11-03 21:04:00 UTC	Japantown	9	2014-11-03 21:30
13	196047	1063	2014-02-25 18:29:00 UTC	Japantown	9	2014-02-25 18:46
14	105353	1216	2013-11-22 23:51:00 UTC	Japantown	9	2013-11-23 00:11
15	12073	68	2013-09-06 08:05:00 UTC	Japantown	9	2013-09-06 08:06
16	106147	317	2013-11-24 09:46:00 UTC	Japantown	9	2013-11-24 09:51
17	362196	1801	2014-07-14 08:23:00 UTC	Japantown	9	2014-07-14 08:53
18	525408	29220	2014-11-01 23:02:00 UTC	Japantown	9	2014-11-02 06:09

SCHEMA   DETAILS   PREVIEW   LINEAGE

Table info

Table ID	bigquery-public-data.san_francisco_bikeshare.bikeshare_trips
Created	Apr 13, 2017, 12:51:39 AM UTC+5:30
Last modified	Jun 15, 2023, 5:59:57 AM UTC+5:30
Table expiration	NEVER
Data location	US
Default collation	
Default rounding mode	ROUNDING_MODE_UNSPECIFIED
Case insensitive	false
Description	
Labels	
Primary key(s)	

Storage info ❓

Number of rows	1,947,417
Total logical bytes	375.03 MB
Active logical bytes	375.03 MB
Long term logical bytes	0 B
Total physical bytes	48.79 MB
Active physical bytes	48.79 MB
Long term physical bytes	0 B
Time travel physical bytes	0 B

```
1  SELECT * FROM `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
2  LIMIT 1000
```

Press Alt+F1 for Accessibility Options.

Query results

⬇ SAVE RESULTS ▾   📊 EXPLORE DATA ▾   ↕

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	trip_id ▾	duration_sec ▾	start_date ▾	start_station_name ▾	start_station_id ▾	end_dat
1	984596	5913	2015-10-25 18:13:00 UTC	Mezes	83	2015-10
2	976553	272	2015-10-19 17:34:00 UTC	Redwood City Caltrain Station	22	2015-10
3	1009081	385	2015-11-13 17:09:00 UTC	Redwood City Caltrain Station	22	2015-11
4	1163942	283	2016-04-15 17:07:00 UTC	Redwood City Caltrain Station	22	2016-04
5	1017900	259	2015-11-20 18:07:00 UTC	Redwood City Caltrain Station	22	2015-11
6	1210164	232	2016-05-20 21:33:00 UTC	Redwood City Caltrain Station	22	2016-05
7	990923	290	2015-10-29 17:33:00 UTC	Redwood City Caltrain Station	22	2015-10
8	1034666	271	2015-12-09 20:23:00 UTC	Redwood City Caltrain Station	22	2015-12
9	997796	285	2015-11-04 18:07:00 UTC	Redwood City Caltrain Station	22	2015-11
10	117840	496	2013-12-06 16:55:00 UTC	Japantown	9	2013-12

Results per page: 50 ▾   1 – 50 of 1000 |< < > >|

Untitled 2 ▶ RUN 🔲 SAVE ▾ 👤 SHARE ▾ 🕐 SCHEDULE ▾ ⚙ MORE ▾

```
1  SELECT start_station_name,
2  end_station_name,
3  subscriber_type
4  FROM `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
5  LIMIT 10
```

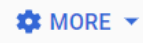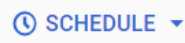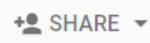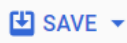## Query results

⬇ SAVE RESULTS ▾

JOB INFORMATION | **RESULTS** | JSON | EXECUTION DETAILS | EXECUTION GRAPH

Row	start_station_name ▾	end_station_name ▾	subscriber_type ▾	
1	Mezes	Mezes	nan	
2	Redwood City Caltrain Station	Mezes	nan	
3	Redwood City Caltrain Station	Mezes	nan	
4	Redwood City Caltrain Station	Mezes	nan	
5	Redwood City Caltrain Station	Mezes	nan	
6	Redwood City Caltrain Station	Mezes	nan	
7	Redwood City Caltrain Station	Mezes	nan	
8	Redwood City Caltrain Station	Mezes	nan	
9	Redwood City Caltrain Station	Mezes	nan	
10	Japantown	Japantown	nan	

Untitled 2

▶ RUN   🔾 SAVE ▾   +👤 SHARE ▾   🕐 SCHEDULE ▾   ⚙ MORE ▾

```sql
1  select subscriber_type
2  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  order by start_station_id
4  limit 10;
```
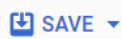
Query results

⬇ SAVE RESULTS

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	subscriber_type ▾
1	nan
2	nan
3	nan
4	nan
5	nan
6	nan
7	nan
8	nan
9	nan
10	nan
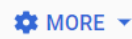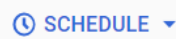
```
1  select
2    start_station_name,
3    count(trip_id) as num_trips
4  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
5  group by start_station_name
6  order by num_trips
7  limit 10;
```

Query results

JOB INFORMATION | **RESULTS** | JSON | EXECUTION DETAILS | EXECUTION GRAPH

Row	start_station_name	num_trips
1	5th St at E. San Salvador St	1
2	Sequoia Hospital	15
3	5th S at E. San Salvador St	19
4	San Jose Government Center	23
5	Tamien Station	26
6	Oak St at 1st St	27
7	16th St Depot	29
8	San Pedro St at Hedding St	39
9	Palm St at Willow St	41
10	San Pablo Park	47

⊕ **Untitled 2**   ▶ **RUN**   💾 **SAVE** ▾   👥 **SHARE** ▾   🕐 **SCHEDULE** ▾   ⚙ **MORE** ▾

```sql
1  -- top 10 stations
2  select
3    start_station_name,
4    count(trip_id) as num_trips
5  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
6  group by start_station_name
7  order by num_trips
8  desc
9  limit 10;
```

Query results

⬇ **SAVE RESULTS** ▾

JOB INFORMATION	**RESULTS**	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	start_station_name ▾	num_trips ▾
1	San Francisco Caltrain (Towns...	72683
2	San Francisco Caltrain 2 (330 T...	56100
3	Harry Bridges Plaza (Ferry Buil...	49062
4	Embarcadero at Sansome	41137
5	2nd at Townsend	39936
6	Temporary Transbay Terminal (...	39199
7	Steuart at Market	38531
8	Market at Sansome	35142
9	Townsend at 7th	34894
10	Market at 10th	30209

⊕ **Untitled 2**   ⏵ **RUN**   ⬇ **SAVE** ▾   ➕ **SHARE** ▾   🕐 **SCHEDULE** ▾   ⚙ **MORE** ▾

```sql
1  select
2    start_station_name,
3    count(trip_id) as num_trips
4  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
5  where start_date > '2017-12-31 00:00:00 UTC'
6  group by start_station_name
7  order by num_trips
8  desc
9  limit 10;
```

Query results

⬇ SAVE RESULTS

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	start_station_name ▾	num_trips ▾
1	San Francisco Ferry Building (H…	9926
2	San Francisco Caltrain (Towns…	9740
3	Berry St at 4th St	9041
4	Market St at 10th St	8934
5	The Embarcadero at Sansome St	8348
6	San Francisco Caltrain Station …	8028
7	Montgomery St BART Station (…	7620
8	Powell St BART Station (Market…	7522
9	Steuart St at Market St	6908
10	Howard St at Beale St	6893

⊕   **Untitled 2**   ▶ **RUN**   💾 **SAVE** ▾   👥 **SHARE** ▾   🕐 **SCHEDULE** ▾   ⚙ **MORE** ▾   ✅ This query will process 375.03 MB when run.

```
1  select  *
2  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  where start_station_name = 'St James Park'
4  AND end_station_name = 'Japantown'
5  order by start_station_id; |
```

Press Alt+F1 for Accessibility Options.

Query results

⬇ SAVE RESULTS ▾   📊 EXPLORE DATA ▾   ⇕

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	trip_id ▾	duration_sec ▾	start_date ▾	start_station_name ▾	start_station_id ▾	end_dat
1	705550	1332	2015-03-31 09:40:00 UTC	St James Park	13	2015-03
2	852890	77910	2015-07-19 18:35:00 UTC	St James Park	13	2015-07
3	1001121	268	2015-11-06 18:57:00 UTC	St James Park	13	2015-11
4	838378	857	2015-07-08 17:01:00 UTC	St James Park	13	2015-07
5	883208	538	2015-08-10 16:08:00 UTC	St James Park	13	2015-08
6	671008	380	2015-03-06 13:11:00 UTC	St James Park	13	2015-03
7	366276	598	2014-07-16 12:01:00 UTC	St James Park	13	2014-07
8	1324088	461	2016-08-20 15:26:00 UTC	St James Park	13	2016-08

Results per page: 50 ▾   1 – 50 of 174 |<   <   >   >|

PERSONAL HISTORY   PROJECT HISTORY   🔄 REFRESH   ⌃

⊙ Untitled 2   ▶ RUN   ⬇ SAVE ▾   ➕ SHARE ▾   🕐 SCHEDULE ▾   ⚙ MORE ▾

```
1  select  duration_sec,
2  bike_number,
3  bike_share_for_all_trip
4  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
5
6  order by  duration_sec
7  desc
8  limit 11; |
```

Press Alt+F1 for Accessibility Options.

Query results

⬇ SAVE RESULTS ▾   📈 EXPLORE DATA ▾   ⇕

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	duration_sec ▾	bike_number ▾	bike_share_for_all_trip ▾	
1	17270400	535	null	
2	2137000	466	null	
3	1852590	680	null	
4	1133540	262	null	
5	722236	247	null	
6	720454	692	null	
7	716480	633	null	
8	715339	251	null	
9	688899	230	null	
10	655939	132	null	
11	644771	369	null	

Results per page: 50 ▾   1 – 11 of 11 |<   <   >   >|
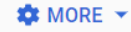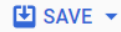
RUN   SAVE ▾   SHARE ▾   SCHEDULE ▾   MORE ▾

```sql
1   select bike_number
2   from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3   where bike_number > 200
4   limit 15;
```

Press

Query results

SAVE RESULTS ▾

JOB INFORMATION	RESULTS	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	bike_number ▾
1	208
2	256
3	655
4	246
5	297
6	645
7	682
8	297
9	221
10	645
11	262

Results per page: 50 ▾   1 – 15 of 15

🔍 Untitled 2   ▶ RUN   💾 SAVE ▾   👤 SHARE ▾   🕐 SCHEDULE ▾   ⚙ MORE ▾

```
1  select bike_number
2  from  `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  where bike_number > 200
4  order by trip_id
5  limit 15;
```

Press Alt+F1 for Accessibility Opti

Query results   ⬇ SAVE RESULTS ▾   📈 EXPLORE DATA ▾   ↕

JOB INFORMATION   RESULTS   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	bike_number ▾
1	540
2	485
3	551
4	311
5	487
6	409
7	552
8	584
9	232
10	540
11	362
12	687
13	529

Results per page: 50 ▾   1 – 15 of 15 |< ‹ › >|

▶ RUN   💾 SAVE ▼   +👤 SHARE ▼   🕐 SCHEDULE ▼   ⚙ MORE ▼

```
1  select duration_sec
2  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  where duration_sec > 2000
4  order by trip_id
5  limit 15;
```

Press Alt+F

Query results

⬇ SAVE RESULTS ▼   📈 EXPL

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	duration_sec ▼
1	3057
2	13210
3	12853
4	18041
5	14295
6	14030
7	13982
8	3781
9	8334
10	8316
11	9378
12	2122
13	11443

Results per page: 50 ▼   1 – 15 of 15 |<

■ RUN   SAVE ▾   +• SHARE ▾   ⏱ SCHEDULE ▾   ⚙ MORE ▾

```
1  select duration_sec
2  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  where duration_sec > 2000
4  order by start_date
5  limit 15;
```
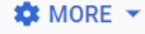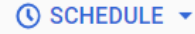
Press Alt+F

Query results

⬇ SAVE RESULTS ▾   📈 EXPL

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	duration_sec ▾
1	3829
2	3637
3	3492
4	7138
5	18240
6	18192
7	21612
8	2124
9	2138
10	5709
11	2044
12	15244
13	3582

Results per page: 50 ▾   1 – 15 of 15 |‹

Untitled 2

▶ RUN   💾 SAVE ▾   +⚇ SHARE ▾   🕐 SCHEDULE ▾   ⚙ MORE ▾

```
1  select duration_sec
2  from  `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
3  where duration_sec > 3000
4  order by start_date
5  desc
6  limit 12;
```
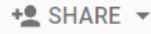
Query results

⬇ SAVE RESU

JOB INFORMATION   **RESULTS**   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	duration_sec ▾
1	34933
2	32897
3	72393
4	3165
5	3235
6	3285
7	5124
8	3303
9	3418
10	4034
11	4306
12	3510

⊕ **Untitled 2**   ▶ **RUN**   🖫 SAVE ▾   ➕👤 SHARE ▾   🕑 SCHEDULE ▾   ⚙ MORE ▾   ✅ This query will proc

```
1  select start_station_latitude,
2  start_station_longitude
3  from `bigquery-public-data.san_francisco_bikeshare.bikeshare_trips`
4  order by start_date
5  desc
6  limit 12;
```

Press Alt+F

Query results

🡇 SAVE RESULTS ▾   📈 EXPL

| JOB INFORMATION | RESULTS | JSON | EXECUTION DETAILS | EXECUTION GRAPH |

Row	start_station_latitude	start_station_longitude
1	37.8087021	-122.2699271
2	37.750506	-122.4339496
3	37.78383	-122.39887
4	37.7644783	-122.4025701
5	37.8660431	-122.2588044
6	37.78389935708...	-122.408444881...
7	37.78127	-122.41874
8	37.7807601	-122.3949894
9	37.8688126	-122.258764
10	37.335885	-121.88566
11	37.7436839	-122.4268059
12	37.8618037	-122.2535687

Results per page: 50 ▾   1 – 12 of 12 |◀