

Latihan 1 Use BigQuery to import data

The screenshot shows the Google Cloud Platform BigQuery console. The 'sampleinfotable' dataset is selected, and the 'SCHEMA' tab is active. The schema table lists the following fields:

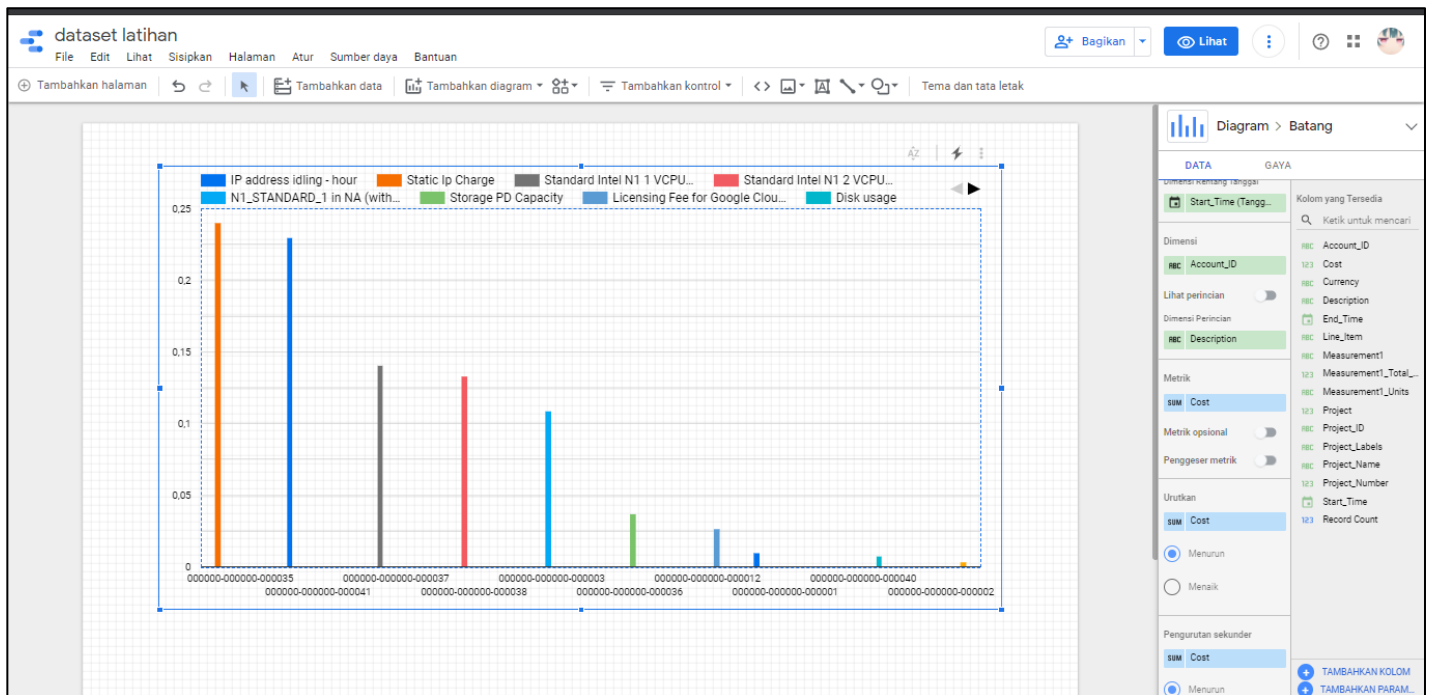
| Field name | Type | Mode | Policy Tags | Description |
|--------------------------------|-----------|----------|-------------|-------------|
| Account_ID | STRING | NULLABLE | | |
| Line_Item | STRING | NULLABLE | | |
| Start_Time | TIMESTAMP | NULLABLE | | |
| End_Time | TIMESTAMP | NULLABLE | | |
| Project | INTEGER | NULLABLE | | |
| Measurement1 | STRING | NULLABLE | | |
| Measurement1_Total_Consumption | FLOAT | NULLABLE | | |
| Measurement1_Units | STRING | NULLABLE | | |
| Cost | FLOAT | NULLABLE | | |
| Currency | STRING | NULLABLE | | |
| Project_Number | INTEGER | NULLABLE | | |
| Project_ID | STRING | NULLABLE | | |
| Project_Name | STRING | NULLABLE | | |
| Project_Labels | STRING | NULLABLE | | |
| Description | STRING | NULLABLE | | |

Latihan 2 Examine the table

The screenshot shows the Google Cloud Platform BigQuery console with the 'sampleinfotable' dataset selected. The 'PREVIEW' tab is active, displaying a table with 11 rows and 7 columns. The columns are: Row, Account_ID, Line_Item, Start_Time, End_Time, Project, and Measurement1. The data shows various cloud services and their usage.

| Row | Account_ID | Line_Item | Start_Time | End_Time | Project | Measurement1 |
|-----|----------------------|---|-------------------------|-------------------------|--------------|------------------------------------|
| 1 | 000000-000000-000040 | com.google.cloud/services/cloud-sql/DiskSpaceGb | 2016-12-13 08:00:00 UTC | 2016-12-14 08:00:00 UTC | 449712193911 | com.google.cloud/services/cloud-s |
| 2 | 000000-000000-000041 | com.google.cloud/services/cloud-sql/IpAddress | 2016-12-13 08:00:00 UTC | 2016-12-14 08:00:00 UTC | 449712193911 | com.google.cloud/services/cloud-s |
| 3 | 000000-000000-000042 | com.googleapis/services/pubsub/MessageOperations | 2016-12-13 08:00:00 UTC | 2016-12-14 08:00:00 UTC | 449712193911 | com.googleapis/services/pubsub/N |
| 4 | 000000-000000-000043 | com.googleprod/services/stackdriver/Billable_monitored_resource_usage_free_tier | 2016-12-13 08:00:00 UTC | 2016-12-14 08:00:00 UTC | 449712193911 | com.googleprod/services/stackdriv |
| 5 | 000000-000000-000000 | com.google.cloud/services/cloud-sql/DiskSpaceGb | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 449712193911 | com.google.cloud/services/cloud-s |
| 6 | 000000-000000-000001 | com.google.cloud/services/cloud-sql/IpAddress | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 449712193911 | com.google.cloud/services/cloud-s |
| 7 | 000000-000000-000006 | com.google.cloud/services/cloud-storage/ClassAResquestNearline | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 449712193911 | com.google.cloud/services/cloud-st |
| 8 | 000000-000000-000035 | com.google.cloud/services/compute-engine/StaticIpCharge | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 449712193911 | com.google.cloud/services/comput |
| 9 | 000000-000000-000039 | com.googleprod/services/stackdriver/Billable_monitored_resource_usage_free_tier | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 449712193911 | com.googleprod/services/stackdriv |
| 10 | 000000-000000-000002 | com.google.cloud/services/cloud-sql/StoragePdSsd | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/cloud-s |
| 11 | 000000-000000-000003 | com.google.cloud/services/cloud-sql/VmN1Standard1Na | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/cloud-s |

Latihan 3 Visualizing BigQuery Data



Hadiah 1 row table

The screenshot shows the Google Cloud Platform BigQuery console interface. The main area displays the details of a table named 'sampleinfotable' in the 'dataset latihan' dataset. The table has 44 rows and 12.7 KB of data. The 'Table info' section displays various metadata fields including Table ID, Table size, Long-term storage size, Number of rows, Created, Last modified, Table expiration, Data location, and Description. The 'Job history' section shows a list of queries with a 'REFRESH' button.

| Table ID | Table size | Long-term storage size | Number of rows | Created | Last modified | Table expiration | Data location | Description |
|---|------------|------------------------|----------------|-------------------------------|-------------------------------|-------------------------------|---------------|-------------|
| jervinproject-315412:datasetlatihan.sampleinfotable | 12.7 KB | 0 B | 44 | Jun 9, 2021, 2:24:33 PM UTC+8 | Jun 9, 2021, 2:24:33 PM UTC+8 | Aug 8, 2021, 2:24:33 PM UTC+8 | US | |

Hadiah 2 Network Internet Ingress from EMEA to Americas menggunakan 9.738.199

The screenshot shows the Google Cloud Platform BigQuery interface. The query executed is: `SELECT * FROM jervinproject-315412.datasetlatihan.sampleinfotable where Description = 'Network Internet Ingress from EMEA to Americas'`. The query results are displayed in a table with the following columns: Measurement1_Total_Consumption, Measurement1_Units, Cost, Currency, Project_Number, Project_ID, Project_Name, Project_Labels, and Description. The results show a single row with a consumption of 9738199.0 bytes and a cost of 0.0 USD.

| Measurement1_Total_Consumption | Measurement1_Units | Cost | Currency | Project_Number | Project_ID | Project_Name | Project_Labels | Description |
|--------------------------------|--------------------|------|----------|----------------|-----------------|-----------------|----------------|--|
| 9738199.0 | bytes | 0.0 | USD | 574501435005 | deadpool-cpb100 | deadpool-cpb100 | null | Network Internet Ingress from EMEA to Americas |

Hadiah 3&4 COMPOSE NEW QUERY ada 20 rows di tampilkan

The screenshot shows the Google Cloud Platform BigQuery interface. The query executed is: `SELECT * FROM 'jervinproject-315412.datasetlatihan.sampleinfotable' WHERE Cost > 0`. The query results are displayed in a table with the following columns: Measurement1_Total_Consumption, Measurement1_Units, Cost, Currency, Project_Number, Project_ID, Project_Name, Project_Labels, and Description. The results show 20 rows of data.

| Measurement1_Total_Consumption | Measurement1_Units | Cost | Currency | Project_Number | Project_ID | Project_Name | Project_Labels | Description |
|--------------------------------|---|-------------------------|-------------------------|----------------|--|--------------|----------------|-------------|
| 000000-000000-000005 | com.google.cloud/services/cloud-storage/ClassARequestMultiRegional | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/cloud-storage/ | | | |
| 000000-000000-000007 | com.google.cloud/services/cloud-storage/ClassBRequestMultiRegional | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/cloud-storage/ | | | |
| 000000-000000-000012 | com.google.cloud/services/compute-engine/Licensed1001006Core | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000018 | com.google.cloud/services/compute-engine/NetworkInterRegionEgressNaNa | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000022 | com.google.cloud/services/compute-engine/NetworkInterZoneEgress | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000025 | com.google.cloud/services/compute-engine/NetworkInternetEgressNaCn | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000026 | com.google.cloud/services/compute-engine/NetworkInternetEgressNaEu | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000027 | com.google.cloud/services/compute-engine/NetworkInternetEgressNaNa | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000036 | com.google.cloud/services/compute-engine/StoragePdCapacity | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000037 | com.google.cloud/services/compute-engine/VmimageN1Standard_1 | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |
| 000000-000000-000038 | com.google.cloud/services/compute-engine/VmimageN1Standard_2 | 2016-12-12 08:00:00 UTC | 2016-12-13 08:00:00 UTC | 574501435005 | com.google.cloud/services/compute-engine | | | |

Hadiah 5 & 6

The screenshot shows the Google Cloud Platform BigQuery console. The query editor contains the following SQL query:

```
SELECT
  product,
  resource_type,
  start_time,
  end_time,
  cost,
  project_id,
  project_name,
  project_labels_key,
  currency,
  currency_conversion_rate,
  usage_amount,
  usage_unit
FROM
  `cloud-training-prod-bucket.arch_infra.billing_data`
```

The query results table shows the following data:

| Row | product | resource_type | start_time | end_time | cost | project_id | project_name | project_labels_key | currency | usage_amount |
|-----|---------------|--|-------------------------|-------------------------|--------|-----------------|-----------------|--------------------|----------|--------------|
| 1 | Cloud Storage | Class A Request Multi-Regional Storage | 2017-01-19 20:00:00 UTC | 2017-01-19 21:00:00 UTC | 5.0E-6 | deadpool-cpb100 | deadpool-cpb100 | null | USD | |
| 2 | Cloud Storage | Class A Request Multi-Regional Storage | 2017-01-20 20:00:00 UTC | 2017-01-20 21:00:00 UTC | 5.0E-6 | deadpool-cpb100 | deadpool-cpb100 | null | USD | |

The screenshot shows the Google Cloud Platform BigQuery console with a filtered query. The query editor contains the following SQL query:

```
SELECT
  product,
  resource_type,
  start_time,
  end_time,
  cost,
  project_id,
  project_name,
  project_labels_key,
  currency,
  currency_conversion_rate,
  usage_amount,
  usage_unit
FROM
  `cloud-training-prod-bucket.arch_infra.billing_data`
WHERE
  cost > 3
```

The query results table shows the following data:

| Row | product | resource_type | start_time | end_time | cost | project_id | project_name | project_labels_key | currency | currency_conversion_rate | usage_amount |
|-----|----------------|--|-------------------------|-------------------------|----------|----------------|--------------|--------------------|----------|--------------------------|--------------|
| 1 | Compute Engine | Standard Intel N1 1 VCPU running in Americas | 2017-03-09 08:00:00 UTC | 2017-03-09 09:00:00 UTC | 3.42 | train-infra | train-infra | null | USD | 1.0 | 259200.0 |
| 2 | Compute Engine | Standard Intel N1 4 VCPU running in Americas | 2017-02-02 08:00:00 UTC | 2017-02-02 09:00:00 UTC | 5.816665 | learnop-154920 | learnop | null | USD | 1.0 | 104700.0 |
| 3 | Compute Engine | Standard Intel N1 1 VCPU running in Americas | 2017-03-12 08:00:00 UTC | 2017-03-12 09:00:00 UTC | 3.2775 | train-infra | train-infra | null | USD | 1.0 | 248400.0 |
| 4 | Compute Engine | Standard Intel N1 1 VCPU running in Americas | 2017-03-10 08:00:00 UTC | 2017-03-10 09:00:00 UTC | 3.42 | train-infra | train-infra | null | USD | 1.0 | 259200.0 |
| 5 | Compute Engine | Standard Intel N1 1 VCPU running in Americas | 2017-03-11 08:00:00 UTC | 2017-03-11 09:00:00 UTC | 3.42 | train-infra | train-infra | null | USD | 1.0 | 259200.0 |