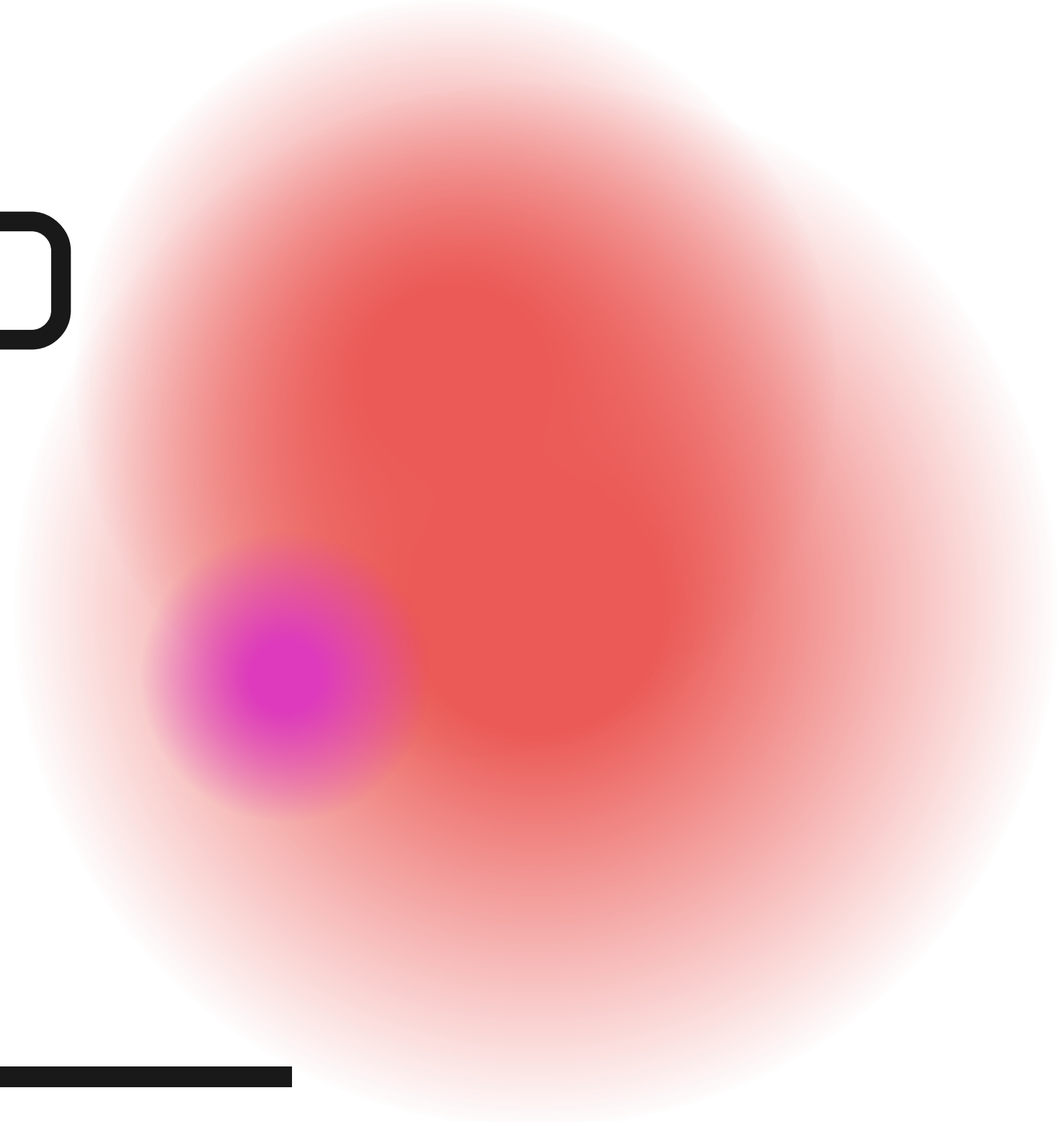
FROM ZERO TO SUPERSET HERO



Viktória Ondrejová

VIKTÓRIA ONDREJOVÁ

Computer science student at
Comenius University Bratislava

Data analyst intern at Slido

WHOAMI

THE SUPERSET TALK

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

PAINFUL MASS MODIFICATIONS

@malinka

I need to rename a column in Superset, it’s taking me 3 days already!

Charts

BULK SELECT + CHART

OWNER: Select or type a value
CREATED BY: Select or type a value
CHART TYPE: Select or type a value
DATASET: Select or type a value
DASHBOARDS: Select or type a value
FAVORITE: Select or type a value
CERTIFIED: Select or type a value
SEARCH: Type a value

Chart	Visualization type	Dataset	Modified by	Last modified	Created by	Actions
admins_july	Bar Chart	public.admins	Superset Admin	2 hours ago	Superset Admin	
Deck.gl Path	deck.gl Path	public.bart_lines				
Deck.gl Arcs	deck.gl Arc	public.flights				
Deck.gl Polygons	deck.gl Polygon	public.sf_population_polygons				
Deck.gl Grid	deck.gl Grid	public.long_lat				
Deck.gl Hexagons	deck.gl 3D Hexagon	public.long_lat				
Deck.gl Screen grid	deck.gl Screen Grid	public.long_lat				
Deck.gl Scatterplot	deck.gl Scatterplot	public.long_lat				
Multi Line	Multiple Line Charts					
Pivot Table	Pivot Table (legacy)	public.birth_names				
Number of Girls	Big Number	public.birth_names				

Superset Dashboards Charts Datasets SQL + Settings

Charts

BULK SELECT + CHART

OWNER: Select or type a value
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CHART TYPE: Select or type a value
DATASET: Select or type a value
DASHBOARDS: Select or type a value
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CERTIFIED: Select or type a value
SEARCH: Type a value

Chart	Visualization type	Dataset	Modified by	Last modified	Created by	Actions
admins_july	Bar Chart	public.admins	Superset Admin	2 hours ago	Superset Admin	
	deck.gl Path	public.bart_lines				
Deck.gl Arcs	deck.gl Arc	public.flights				
Deck.gl Polygons	deck.gl Polygon	public.sf_population_polygons				
Deck.gl Grid	deck.gl Grid	public.long_lat				
Deck.gl Hexagons	deck.gl 3D Hexagon	public.long_lat				
Deck.gl Screen grid	deck.gl Screen Grid	public.long_lat				
Deck.gl Scatterplot	deck.gl Scatterplot	public.long_lat				
Multi Line	Multiple Line Charts					
Pivot Table	Pivot Table (legacy)	public.birth_names				
Number of Girls	Big Number	public.birth_names				

Superset | Dashboards | Charts | Datasets | SQL | + | Settings

admins_july

Not added to any dashb... | Superset Admin | 45 seconds ago | SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

- updated
- abc id
- abc first_name

DATA | CUSTOMIZE

BAR CHART | 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc first_name

+ Drop columns here or click

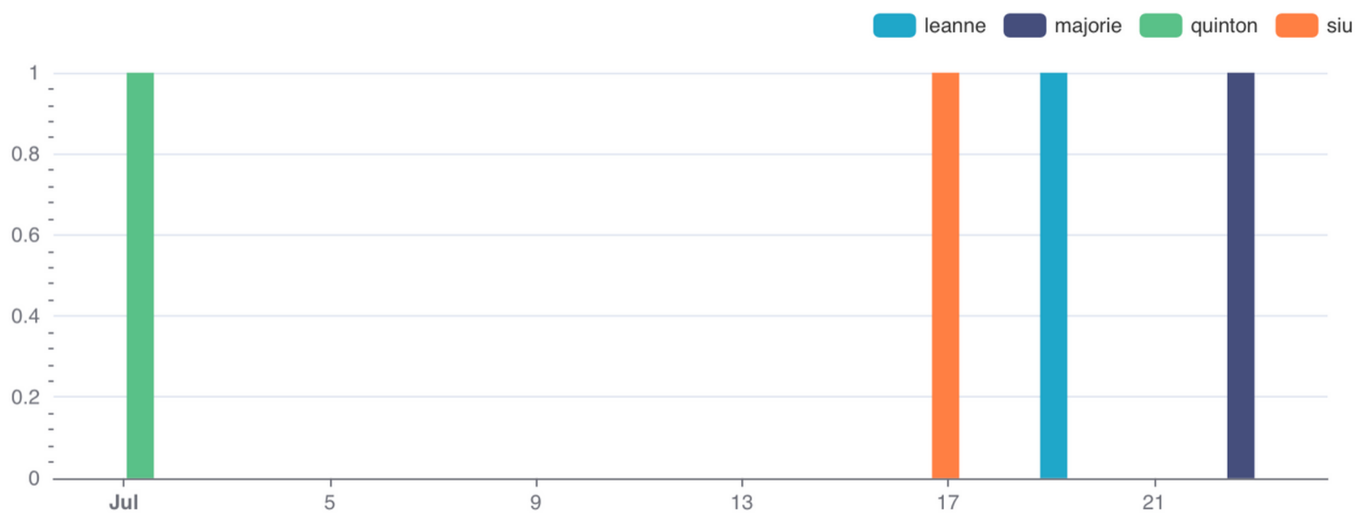
CONTRIBUTION MODE

None

FILTERS

UPDATE CHART

4 rows | Cached | 00:00:00.24



RESULTS | SAMPLES

Search

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

Superset | Dashboards | Charts | Datasets | SQL | + | Settings

admins_july

Not added to any dashb... | Superset Admin | 45 seconds ago | SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

updated

abc id

abc first_name

DATA | CUSTOMIZE

BAR CHART | 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc first_name

+ Drop columns here or click

CONTRIBUTION MODE

None

FILTERS

UPDATE CHART

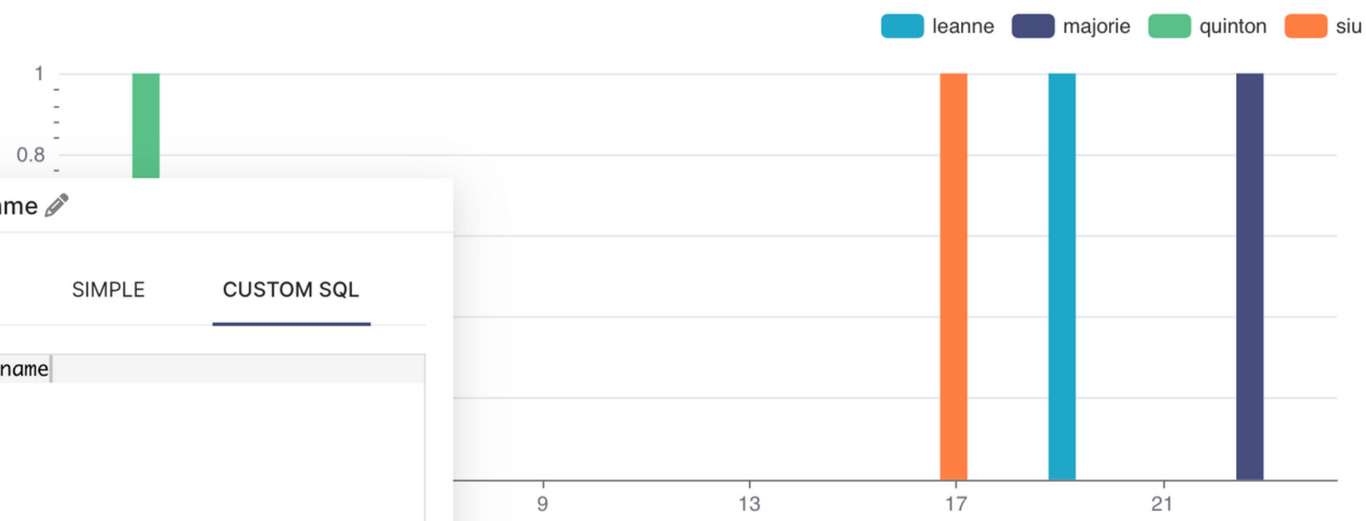
first_name

SAVED | SIMPLE | CUSTOM SQL

```
first_name
```

CLOSE | SAVE

4 rows | Cached | 00:00:00.24



4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

Superset | Dashboards | Charts | Datasets | SQL | + | Settings

admins_july

Not added to any dashb... | Superset Admin | 45 seconds ago | SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

updated

abc id

abc first_name

DATA | CUSTOMIZE

BAR CHART | 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

Drop columns/metrics here or click

DIMENSIONS

abc first_name

Drop columns here or click

CONTRIBUTION MODE

None

FILTERS

UPDATE CHART

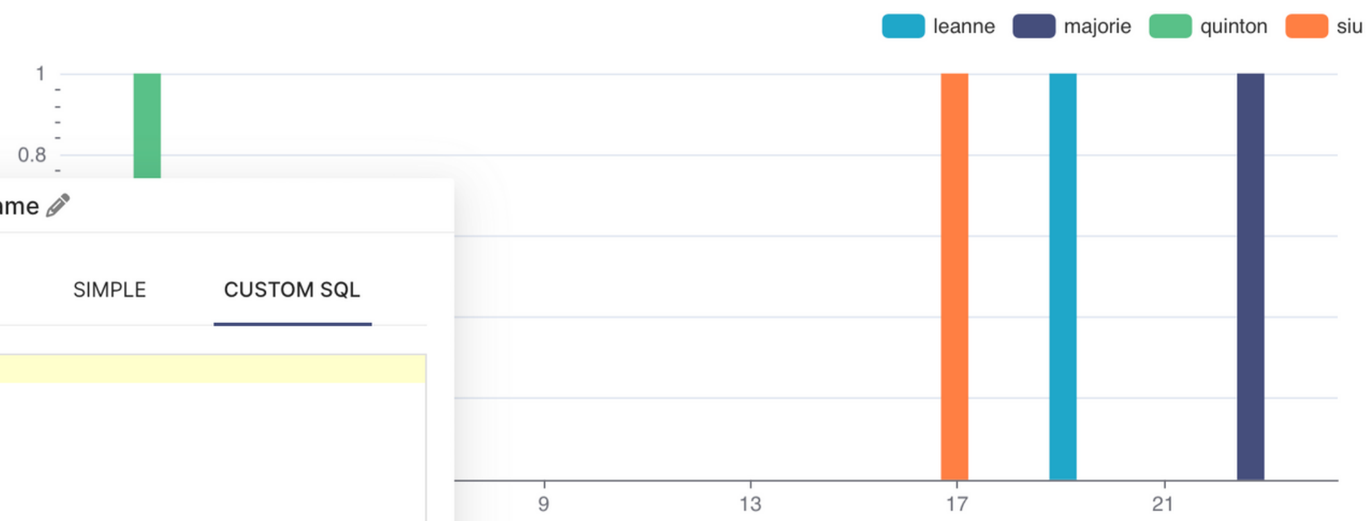
first_name

SAVED | SIMPLE | CUSTOM SQL

name

CLOSE | SAVE

4 rows | Cached | 00:00:00.24



4 rows

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2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

Superset | Dashboards | Charts | Datasets | SQL | + | Settings

admins_july

Altered | Not added to any dashb... | Superset Admin | 45 seconds ago | SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

- updated
- abc id
- abc first_name

DATA | CUSTOMIZE

BAR CHART | 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

Drop columns/metrics here or click

DIMENSIONS

f(x) first_name

Drop columns here or click

CONTRIBUTION MODE

None

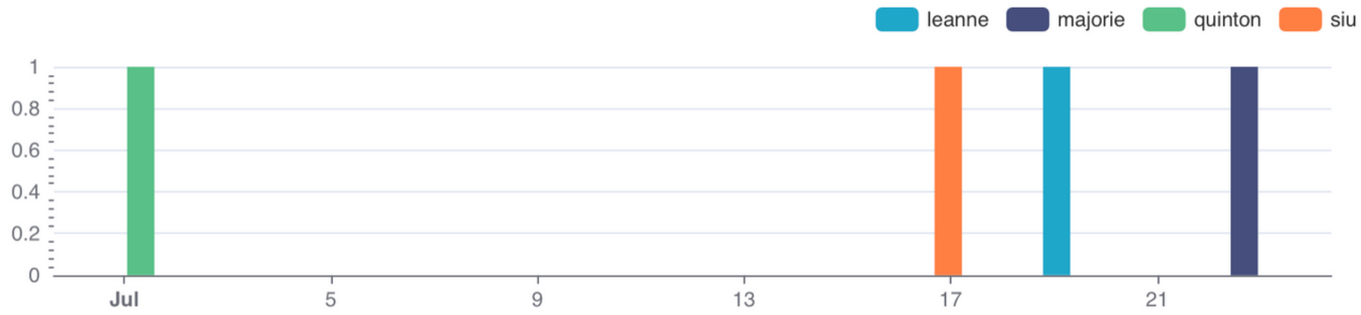
FILTERS

UPDATE CHART

Your chart is not up to date

You updated the values in the control panel, but the chart was not updated automatically. Run the query by clicking on the "Update chart" button or click here.

4 rows | Cached | 00:00:00.24



RESULTS | SAMPLES

Search

4 rows

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2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

Superset Dashboards Charts Datasets SQL + Settings

admins_july

Not added to any dashb... Superset Admin 33 seconds ago SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 18 of 18

- updated
- abc color
- 1|0 deleted
- 1|0 has_2fa
- abc id
- 1|0 is_admin
- 1|0 is_app_user
- 1|0 is_bot
- 1|0 is_owner
- 1|0 is_primary_owner
- 1|0 is_restricted
- 1|0 is_ultra_restricted

DATA CUSTOMIZE

BAR CHART 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc name

+ Drop columns here or click

CONTRIBUTION MODE

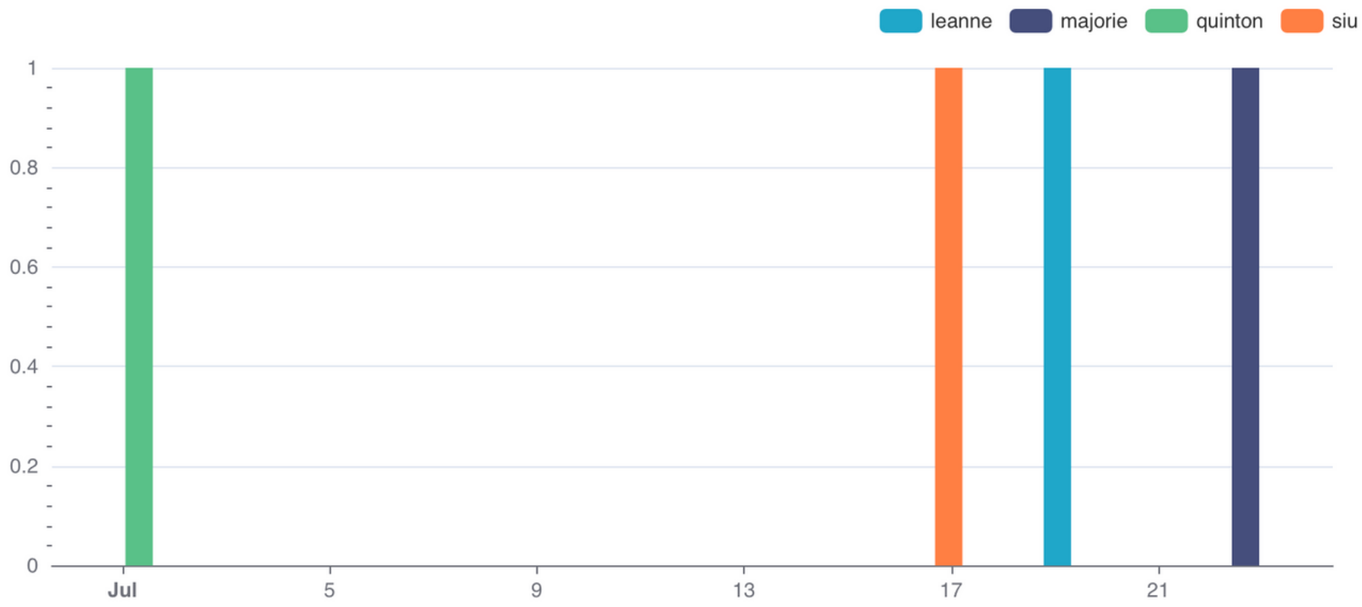
None

FILTERS

- updated > DATE('2020-07-01')
- updated < DATE('2020-08-01')
- updated (No filter)

UPDATE CHART

4 rows 00:00:01.02



RESULTS SAMPLES

Search

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

10 207

charts

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

PAINFUL MASS MODIFICATIONS

@malinka

I need to rename a column in Superset, it’s taking me 3 days already!

@kivi

That sucks :(

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

- PAINFUL MASS MODIFICATIONS
- REVIEWS
- VERSIONING

@kivi

Heey, have you modified my new dashboard?
Anyways, can you please check it for me?

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

- PAINFUL MASS MODIFICATIONS
- REVIEWS
- VERSIONING
- COMPLICATED MIGRATION

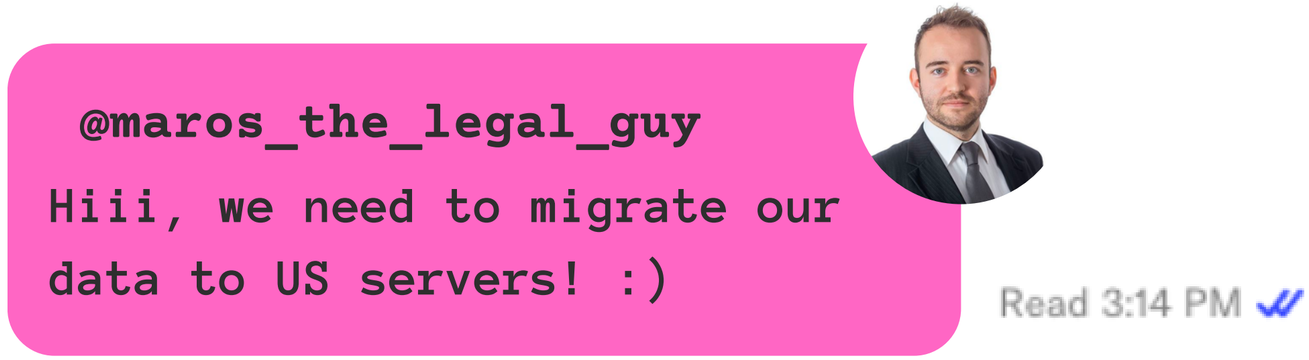
@maros_the_legal_guy

Hiii, we need to migrate our data to US servers! :)

THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

- PAINFUL MASS MODIFICATIONS
- REVIEWS
- VERSIONING
- COMPLICATED MIGRATION



THE SUPERSET TALK

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY

- PAINFUL MASS MODIFICATIONS
- REVIEWS
- VERSIONING
- COMPLICATED MIGRATION

WHERE SUPERSET MEETS TERRAFORM

SUPERSET API

Parameters

Cancel

Name	Description
pk * required **integer** *(path)*	2568
q **object** *(query)*	

Execute

200

Response body


```
        "json_metadata": null
      }
    ],
    "description": null,
    "id": 2565,
    "is_managed_externally": false,
    "owners": [],
    "params": "{\n    \"color_picker\": {\n        \"a\": 1,\n        \"b\": 135,\n        \"g\": 122,\n        \"r\":
0\n    },\n    \"datasource\": \"10__table\",\n    \"end_spatial\": {\n        \"latCol\": \"LATITUDE_DEST\",\n
\"lonCol\": \"LONGITUDE_DEST\",\n        \"type\": \"latlong\"\n    },\n    \"granularity_sqla\": null,\n    \"map-
box_style\": \"mapbox://styles/mapbox/light-v9\",\n    \"row_limit\": 5000,\n    \"slice_id\": 42,\n    \"start_spa-
tial\": {\n        \"latCol\": \"LATITUDE\",\n        \"lonCol\": \"LONGITUDE\",\n        \"type\": \"latlong\"\n    },
\n    \"stroke_width\": 1,\n    \"time_grain_sqla\": null,\n    \"time_range\": \" : \",\n    \"viewport\": {\n
\"altitude\": 1.5,\n    \"bearing\": 8.546256357301871,\n    \"height\": 640,\n        \"latitude\": 44.5966514
38714254,\n        \"longitude\": -91.84340711201104,\n        \"maxLatitude\": 85.05113,\n        \"maxPitch\": 60,\n
\"maxZoom\": 20,\n        \"minLatitude\": -85.05113,\n        \"minPitch\": 0,\n        \"minZoom\": 0,\n        \"pit
ch\": 60,\n        \"width\": 997,\n        \"zoom\": 2.929837070560775\n    },\n    \"viz_type\": \"deck_arc\"\n}",
    "query_context": "{\"datasource\":{\"id\":41,\"type\":\"table\"},\"force\":false,\"queries\":[{\"time_range\":\" :
\",\"granularity\":null,\"filters\":[],\"extras\":{\"time_grain_sqla\":null,\"having\":\"\",\"where\":\"\"},\"ap-
plied_time_extras\":{},\"columns\":[],\"metrics\":[],\"annotation_layers\":[],\"row_limit\":5000,\"series_lim-
it\":0,\"order_desc\":true,\"url_params\":{},\"custom_params\":{},\"custom_form_data\":{}}],\"form_data\":{\"col-
or_picker\":{\"a\":1,\"b\":135,\"g\":122,\"r\":0},\"datasource\":\"41__table\",\"end_spatial\":{\"latCol\":\"LATIT-
UDE_DEST\",\"lonCol\":\"LONGITUDE_DEST\",\"type\":\"latlong\"},\"granularity_sqla\":null,\"mapbox_style\":\"ma
box://styles/mapbox/light-v9\",\"row_limit\":5000,\"slice_id\":2565,\"start_spatial\":{\"latCol\":\"LATIT
Col\":\"LONGITUDE\",\"type\":\"latlong\"},\"stroke_width\":1,\"time_grain_sqla\":null,\"time_range\":\" : \",\"view-
```


HELLO EVERYONE AND WELCOME TO MY SESSION, I'M VIKTORIA ONDREJOVA, AND TODAY I WILL TAKE YOU FROM ZERO TO SUPERSET HERO! WITH THIS DONE, I'M SURE YOU'LL BE A TIME FOR DEMO!

Download

DATASET JSON


```
{
"database":1,
"schema":"public",
"sql":"SELECT * FROM public.users WHERE is_admin = TRUE",
"table_name":"admins"
}
```

DATASET JSON

```
{
"database":1,
"schema":"public",
"sql":"SELECT * FROM public.users WHERE is_admin = TRUE",
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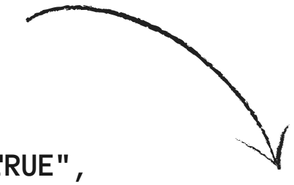
}
```



"database":1,

DATASET JSON

```
{
"database":1,
"schema":"public",
"sql":"SELECT * FROM public.users WHERE is_admin = TRUE",
"table_name":"admins"
}
```

"schema":"public",

DATASET JSON

```
{
"database":1,
"schema":"public",
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```

"sql":"SELECT * FROM public.users WHERE is_admin = TRUE",

DATASET JSON

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{
"database":1,
"schema":"public",
"sql":"SELECT * FROM public.users WHERE is_admin = TRUE",
"table_name":"admins"
}
```

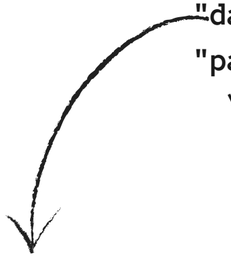
"table_name":"admins"

CHART JSON


```
{
  "datasource_id": int,
  "datasource_type": "table",
  "params": "{
    \"adhoc_filters\": [{
        \"clause\":\"WHERE\",
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"updated \\u003e DATE('2020-07-01')\"},
      {
        \"clause\":\"WHERE\",
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"updated \\u003c DATE('2020-08-01')'\"
      }
    ],
    \"groupby\":[\"name\"],
    \"metrics\":[
      {
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"COUNT(id)\"
      }
    ],
    \"time_grain_sqla\":\"P1D\",
    \"x_axis\":{
      \"expressionType\":\"SQL\",
      \"label\":\"x_axis\",
      \"sqlExpression\":\"user\"
    }
  }",
  "slice_name": "admins_july",
  "viz_type": "echarts_timeseries_bar"
}
```

CHART JSON

```
"datasource_id": int,
"datasource_type": "table",
```



```
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  "datasource_id": int,
  "datasource_type": "table",
  "params": "{
    \"adhoc_filters\": [{
        \"clause\":\"WHERE\",
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"updated \\u003e DATE('2020-07-01')\"},
      {
        \"clause\":\"WHERE\",
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"updated \\u003c DATE('2020-08-01')'\"
      }
    ],
    \"groupby\":[\"name\"],
    \"metrics\":[
      {
        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"COUNT(id)\"
      }
    ],
    \"time_grain_sqla\":\"P1D\",
    \"x_axis\":{
      \"expressionType\":\"SQL\",
      \"label\":\"x_axis\",
      \"sqlExpression\":\"user\"
    }
  }",
  "slice_name": "admins_july",
  "viz_type": "echarts_timeseries_bar"
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```

CHART JSON

"params":


```
{
  "datasource_id": int,
  "datasource_type": "table",
  "params": "{
    \"adhoc_filters\": [{
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        \"expressionType\":\"SQL\",
        \"sqlExpression\":\"updated \\u003e DATE('2020-07-01')\"},
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        \"expressionType\":\"SQL\",
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      }
    ],
    \"groupby\":[\"name\"],
    \"metrics\":[
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CHART JSON

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      \"label\":\"x_axis\",
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  }",
  "slice_name": "admins_july",
  "viz_type": "echarts_timeseries_bar"
}
```

TERRAFORM

- INFRASTRUCTURE AS CODE
- FOREIGN KEYS
- GOLANG

DATASET

```
resource "superset_dataset" "admins" {
 database = 1
 schema = "public"
 table_name = "admins"
 sql = "SELECT * FROM public.users WHERE is_admin = TRUE"
}
```

DATASET

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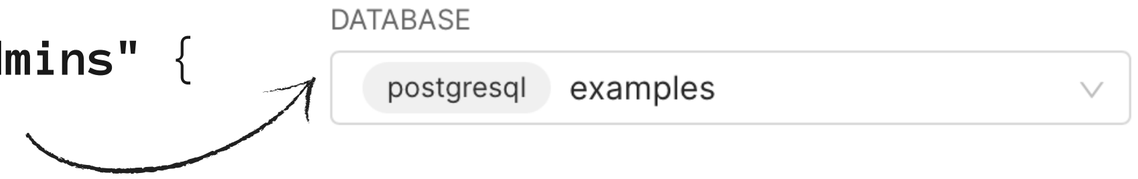

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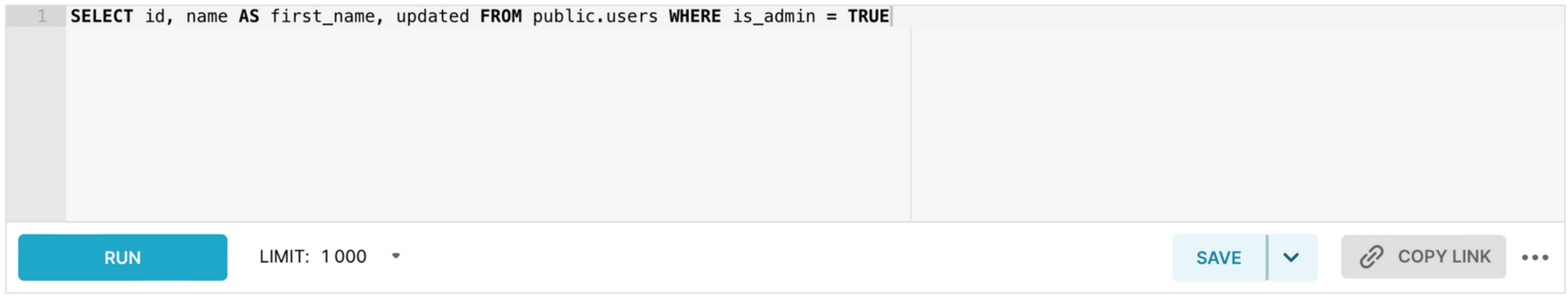


CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```

CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```

CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```

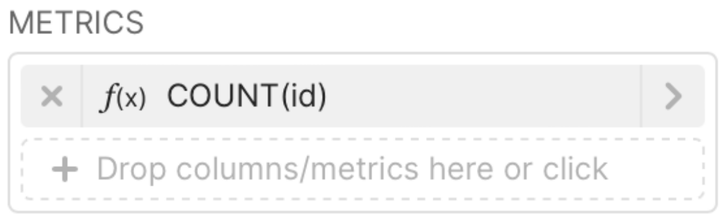
CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```

```
resource "superset_dataset" "admins"
```

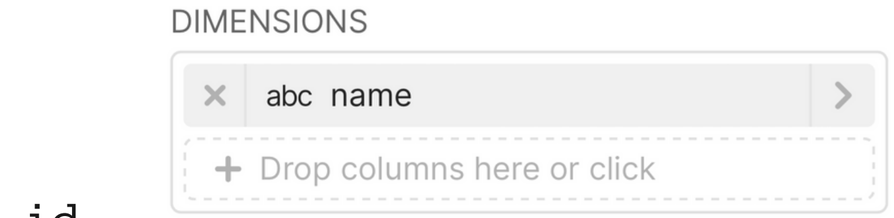
CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```



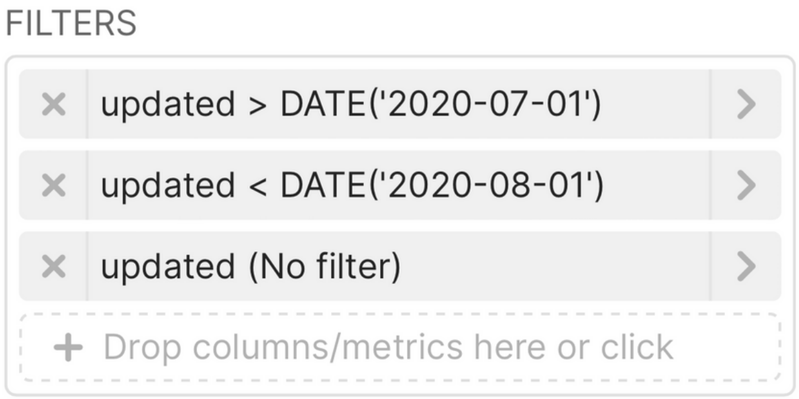
CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```



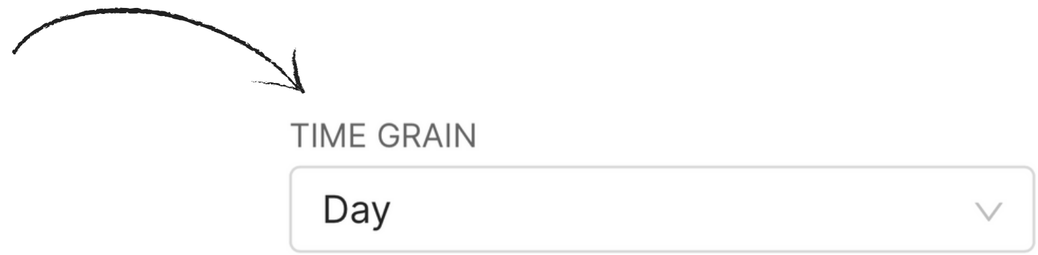
CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```



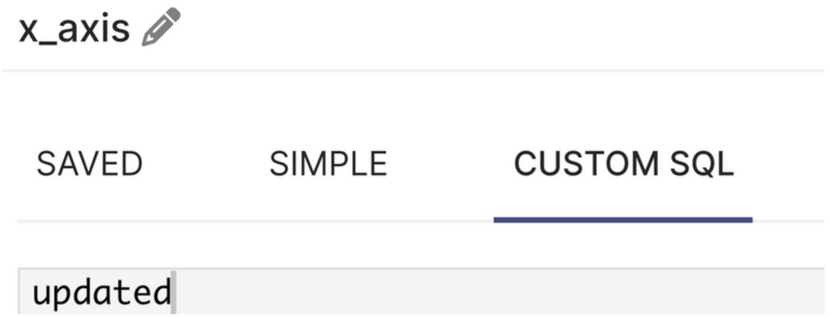
CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```

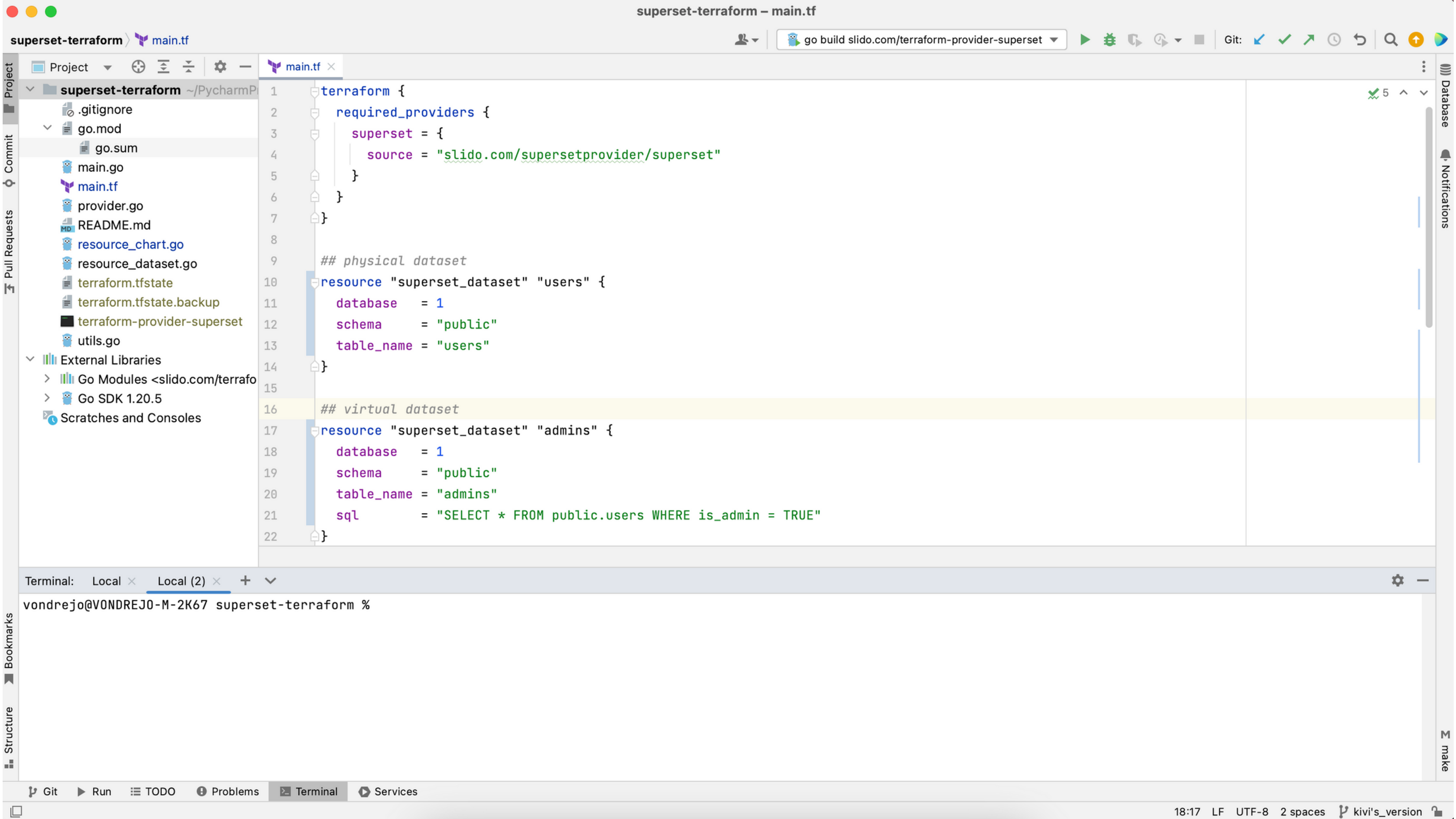


CHART

```
resource "superset_chart" "admins_july" {
 slice_name = "admins_july"
 datasource_type = "table"
 viz_type = "echarts_timeseries_bar"
 datasource_id = resource.superset_dataset.admins.id
 metrics = ["COUNT(id)"]
 groupby = ["name"]
 filters_where = ["updated > DATE('2020-07-01')",
                  "updated < DATE('2020-08-01')"]
 filters_having = []
 time_grain_sqla = "P1D"
 x_axis = "updated"
}
```



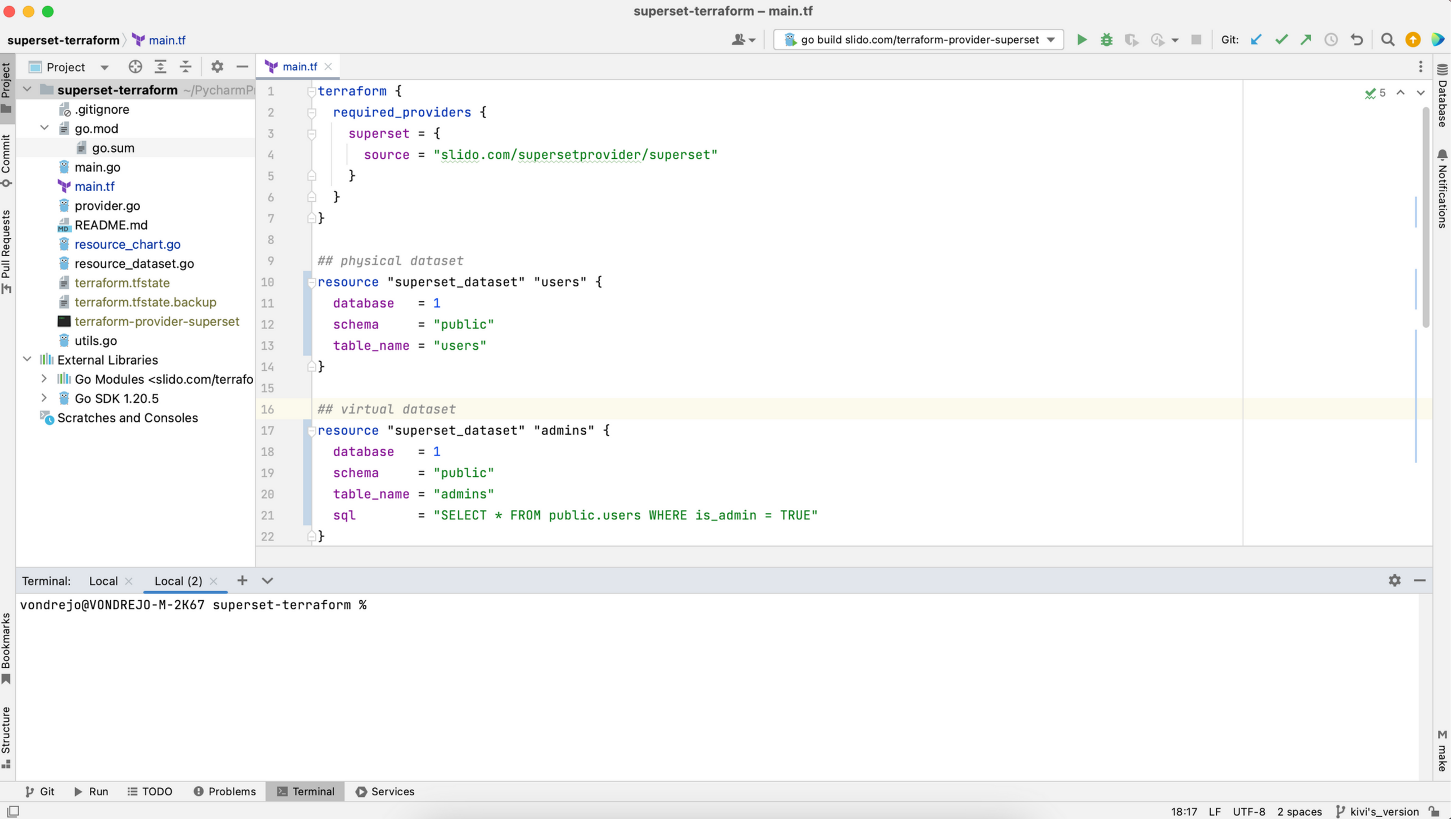
DEMO TIME


superset-terraform – main.tf
superset-terraform
main.tf
go build slido.com/terraform-provider-superset
Git:
Project
superset-terraform ~/PycharmP
.gitignore
go.mod
go.sum
main.go
main.tf
provider.go
README.md
resource_chart.go
resource_dataset.go
terraform.tfstate
terraform.tfstate.backup
terraform-provider-superset
utils.go
External Libraries
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
main.tf
terraform {
required_providers {
superset = {
source = "slido.com/supersetprovider/superset"
}
}
}
physical dataset
resource "superset_dataset" "users" {
database = 1
schema = "public"
table_name = "users"
}
virtual dataset
resource "superset_dataset" "admins" {
database = 1
schema = "public"
table_name = "admins"
sql = "SELECT * FROM public.users WHERE is_admin = TRUE"
}
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git
Run
TODO
Problems
Terminal
Services
18:17
LF
UTF-8
2 spaces
kivi's_version

```
}

## physical dataset
resource "superset_dataset" "users" {
  database   = 1
  schema     = "public"
  table_name = "users"
}

## virtual dataset
resource "superset_dataset" "admins" {
  database   = 1
  schema     = "public"
  table_name = "admins"
  sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
}
```


superset-terraform – main.tf
superset-terraform 〉 main.tf
go build slido.com/terraform-provider-superset
Git:
Project
main.tf
superset-terraform ~/PycharmP
.gitignore
go.mod
go.sum
main.go
main.tf
provider.go
README.md
resource_chart.go
resource_dataset.go
terraform.tfstate
terraform.tfstate.backup
terraform-provider-superset
utils.go
External Libraries
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
1 terraform {
2 required_providers {
3 superset = {
4 source = "slido.com/supersetprovider/superset"
5 }
6 }
7 }
8
9 ## physical dataset
10 resource "superset_dataset" "users" {
11 database = 1
12 schema = "public"
13 table_name = "users"
14 }
15
16 ## virtual dataset
17 resource "superset_dataset" "admins" {
18 database = 1
19 schema = "public"
20 table_name = "admins"
21 sql = "SELECT * FROM public.users WHERE is_admin = TRUE"
22 }
5
Terminal: Local Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git Run TODO Problems Terminal Services
18:17 LF UTF-8 2 spaces kivi's_version
Project Commit Pull Requests Bookmarks Structure
Database Notifications make

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_dataset.admins will be created
  + resource "superset_dataset" "admins" {
      + database   = 1
      + id         = (known after apply)
      + schema     = "public"
      + sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
      + table_name = "admins"
    }

  # superset_dataset.users will be created
  + resource "superset_dataset" "users" {
      + database   = 1
      + id         = (known after apply)
      + schema     = "public"
      + table_name = "users"
    }

Plan: 2 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value:
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_dataset.admins will be created
  + resource "superset_dataset" "admins" {
      + database   = 1
      + id         = (known after apply)
      + schema     = "public"
      + sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
      + table_name = "admins"
    }

  # superset_dataset.users will be created
  + resource "superset_dataset" "users" {
      + database   = 1
      + id         = (known after apply)
      + schema     = "public"
      + table_name = "users"
    }

Plan: 2 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes
```

Terminal: Local Local (2)

```
      + schema     = "public"
      + sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
      + table_name = "admins"
    }

  # superset_dataset.users will be created
  + resource "superset_dataset" "users" {
      + database   = 1
      + id         = (known after apply)
      + schema     = "public"
      + table_name = "users"
    }

Plan: 2 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

superset_dataset.users: Creating...
superset_dataset.admins: Creating...
superset_dataset.admins: Creation complete after 0s [id=121]
superset_dataset.users: Creation complete after 1s [id=122]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
vondrejo@VONDREJO-M-2K67 superset-terraform %
```

Datasets

BULK SELECT + DATASET

OWNER: Select or type a value
DATABASE: Select or type a value
SCHEMA: Select or type a value
TYPE: Select or type a value
CERTIFIED: Select or type a value
SEARCH: Type a value

Name	Type	Database	Schema	Modified	Modified by	Owners	Actions
users	Physical	examples	public	a minute ago	Superset Admin	SA	
admins	Virtual	examples	public	a minute ago	Superset Admin	SA	
cleaned_sales_data	Physical	examples	public	36 minutes ago			
unicode_test	Physical	examples	public	36 minutes ago			
covid_vaccines	Physical	examples	public	36 minutes ago			
channels	Physical	examples	public	36 minutes ago			
messages_channels	Virtual	examples	public	36 minutes ago			
messages	Physical	examples	public	36 minutes ago			
FCC 2018 Survey	Physical	examples	public	36 minutes ago			
members_channels_2	Virtual	examples	public	36 minutes ago			
new_members_daily	Virtual	examples	public	36 minutes ago			
users_channels	Physical	examples	public	36 minutes ago			

Superset Dashboards Charts Datasets SQL + Settings

admins_july

Not added to any dashb... Superset Admin 33 seconds ago SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 18 of 18

- updated
- abc color
- 1|0 deleted
- 1|0 has_2fa
- abc id
- 1|0 is_admin
- 1|0 is_app_user
- 1|0 is_bot
- 1|0 is_owner
- 1|0 is_primary_owner
- 1|0 is_restricted
- 1|0 is_ultra_restricted

DATA CUSTOMIZE

BAR CHART 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc name

+ Drop columns here or click

CONTRIBUTION MODE

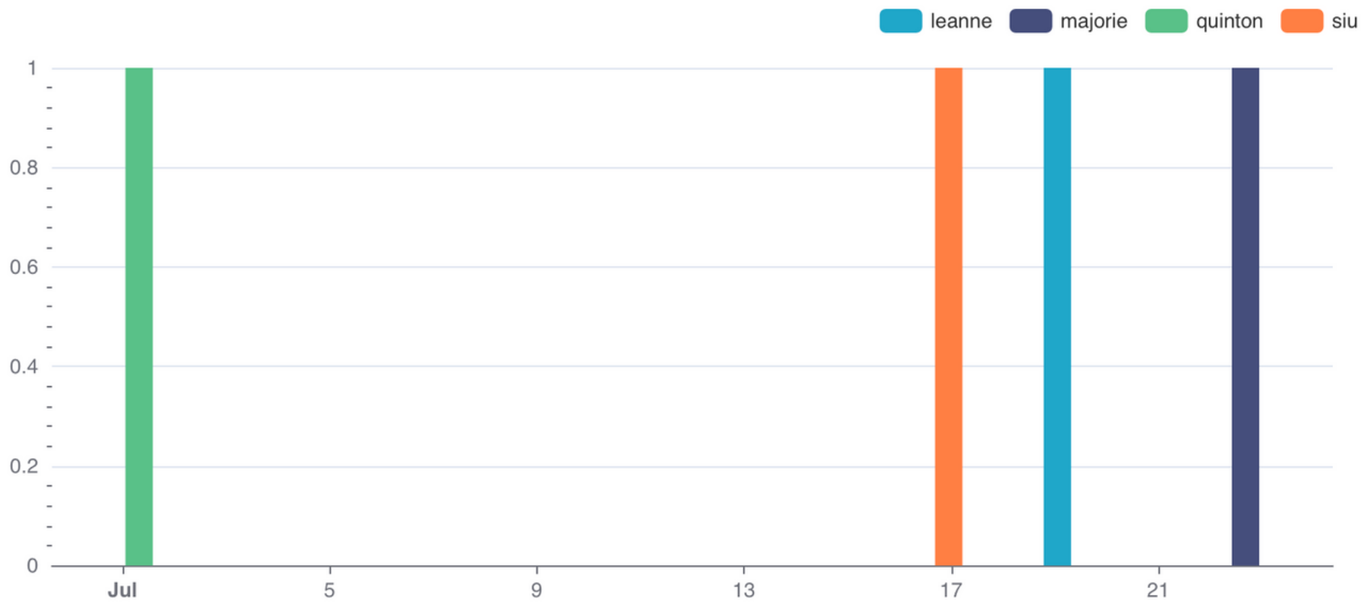
None

FILTERS

- updated > DATE('2020-07-01')
- updated < DATE('2020-08-01')
- updated (No filter)

UPDATE CHART

4 rows 00:00:01.02

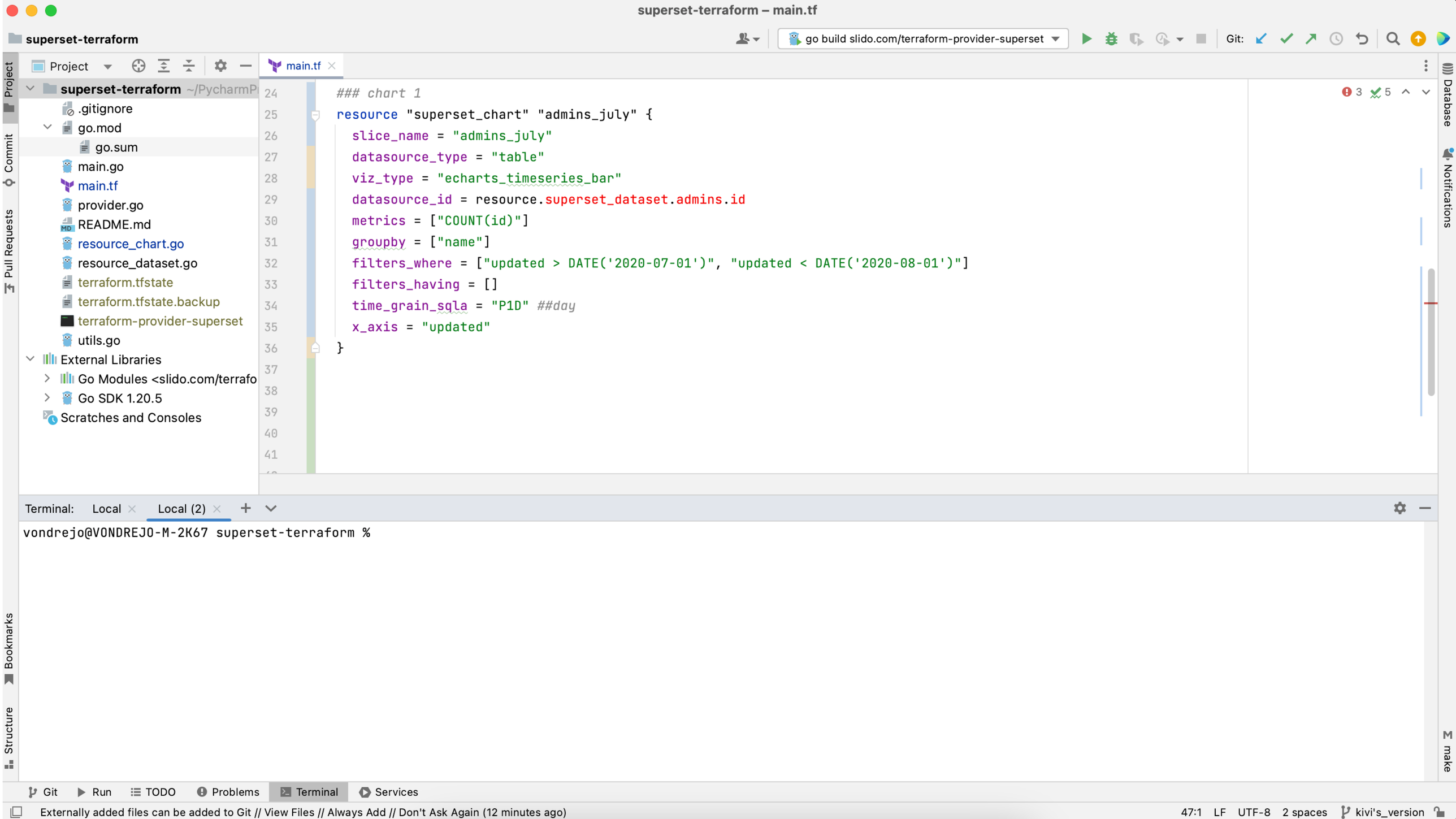


RESULTS SAMPLES

Search

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

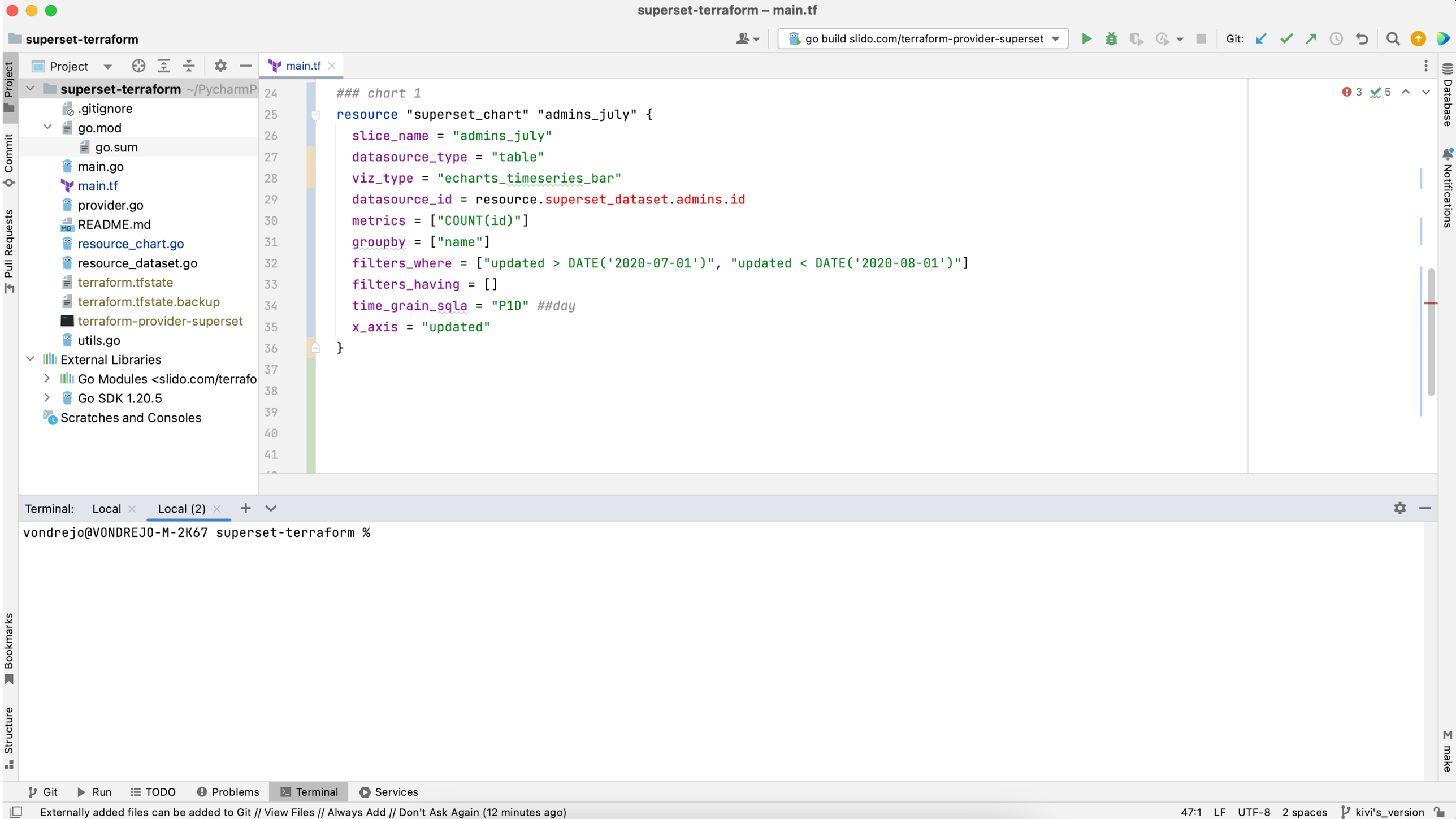

superset-terraform – main.tf
superset-terraform
go build slido.com/terraform-provider-superset
Git:
Project
superset-terraform ~/PycharmP
.gitignore
go.mod
go.sum
main.go
main.tf
provider.go
README.md
resource_chart.go
resource_dataset.go
terraform.tfstate
terraform.tfstate.backup
terraform-provider-superset
utils.go
External Libraries
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
main.tf
chart 1
resource "superset_chart" "admins_july" {
slice_name = "admins_july"
datasource_type = "table"
viz_type = "echarts_timeseries_bar"
datasource_id = resource.superset_dataset.admins.id
metrics = ["COUNT(id)"]
groupby = ["name"]
filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
filters_having = []
time_grain_sqla = "P1D" ##day
x_axis = "updated"
}
3
5
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git
Run
TODO
Problems
Terminal
Services
Externally added files can be added to Git // View Files // Always Add // Don't Ask Again (12 minutes ago)
47:1
LF
UTF-8
2 spaces
kivi's_version
Project
Commit
Pull Requests
Bookmarks
Structure
Database
Notifications
make

main.tf

```
### chart 1
resource "superset_chart" "admins_july" {
  slice_name = "admins_july"
  datasource_type = "table"
  viz_type = "echarts_timeseries_bar"
  datasource_id = resource.superset_dataset.admins.id
  metrics = ["COUNT(id)"]
  groupby = ["name"]
  filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
  filters_having = []
  time_grain_sqla = "P1D" ##day
  x_axis = "updated"
}
```

3

set-terraform %


superset-terraform – main.tf
superset-terraform
go build slido.com/terraform-provider-superset
Git:
Project
superset-terraform ~/PycharmP
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resource_dataset.go
terraform.tfstate
terraform.tfstate.backup
terraform-provider-superset
utils.go
External Libraries
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
main.tf
chart 1
resource "superset_chart" "admins_july" {
slice_name = "admins_july"
datasource_type = "table"
viz_type = "echarts_timeseries_bar"
datasource_id = resource.superset_dataset.admins.id
metrics = ["COUNT(id)"]
groupby = ["name"]
filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
filters_having = []
time_grain_sqla = "P1D" ##day
x_axis = "updated"
}
3
5
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git
Run
TODO
Problems
Terminal
Services
Externally added files can be added to Git // View Files // Always Add // Don't Ask Again (12 minutes ago)
47:1
LF
UTF-8
2 spaces
kivi's_version
Project
Commit
Pull Requests
Bookmarks
Structure
Database
Notifications
make

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_chart.admins_july will be created
  + resource "superset_chart" "admins_july" {
      + datasource_id   = 121
      + datasource_type = "table"
      + filters_having  = []
      + filters_where   = [
          + "updated > DATE('2020-07-01')",
          + "updated < DATE('2020-08-01')",
        ]
      + groupby         = [
          + "name",
        ]
      + id              = (known after apply)
      + metrics         = [
          + "COUNT(id)",
        ]
      + slice_name      = "admins_july"
      + time_grain_sqla = "P1D"
      + viz_type        = "echarts_timeseries_bar"
      + x_axis          = "updated"
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value:
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_chart.admins_july will be created
  + resource "superset_chart" "admins_july" {
      + datasource_id   = 121
      + datasource_type = "table"
      + filters_having  = []
      + filters_where   = [
          + "updated > DATE('2020-07-01')",
          + "updated < DATE('2020-08-01')",
        ]
      + groupby         = [
          + "name",
        ]
      + id              = (known after apply)
      + metrics         = [
          + "COUNT(id)",
        ]
      + slice_name      = "admins_july"
      + time_grain_sqla = "P1D"
      + viz_type        = "echarts_timeseries_bar"
      + x_axis          = "updated"
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value:   yes
```

Terminal: Local Local (2)

```
      + filters_having  = []
      + filters_where   = [
          + "updated > DATE('2020-07-01')",
          + "updated < DATE('2020-08-01')",
        ]
      + groupby         = [
          + "name",
        ]
      + id              = (known after apply)
      + metrics         = [
          + "COUNT(id)",
        ]
      + slice_name      = "admins_july"
      + time_grain_sqla = "P1D"
      + viz_type        = "echarts_timeseries_bar"
      + x_axis          = "updated"
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

superset_chart.admins_july: Creating...
superset_chart.admins_july: Creation complete after 0s [id=2495]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
vondrejo@VONDREJO-M-2K67 superset-terraform %
```

Superset Dashboards Charts Datasets SQL + Settings

admins_july

Not added to any dashb... Superset Admin 33 seconds ago SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 18 of 18

- updated
- abc color
- 1|0 deleted
- 1|0 has_2fa
- abc id
- 1|0 is_admin
- 1|0 is_app_user
- 1|0 is_bot
- 1|0 is_owner
- 1|0 is_primary_owner
- 1|0 is_restricted
- 1|0 is_ultra_restricted

DATA CUSTOMIZE

BAR CHART 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc name

+ Drop columns here or click

CONTRIBUTION MODE

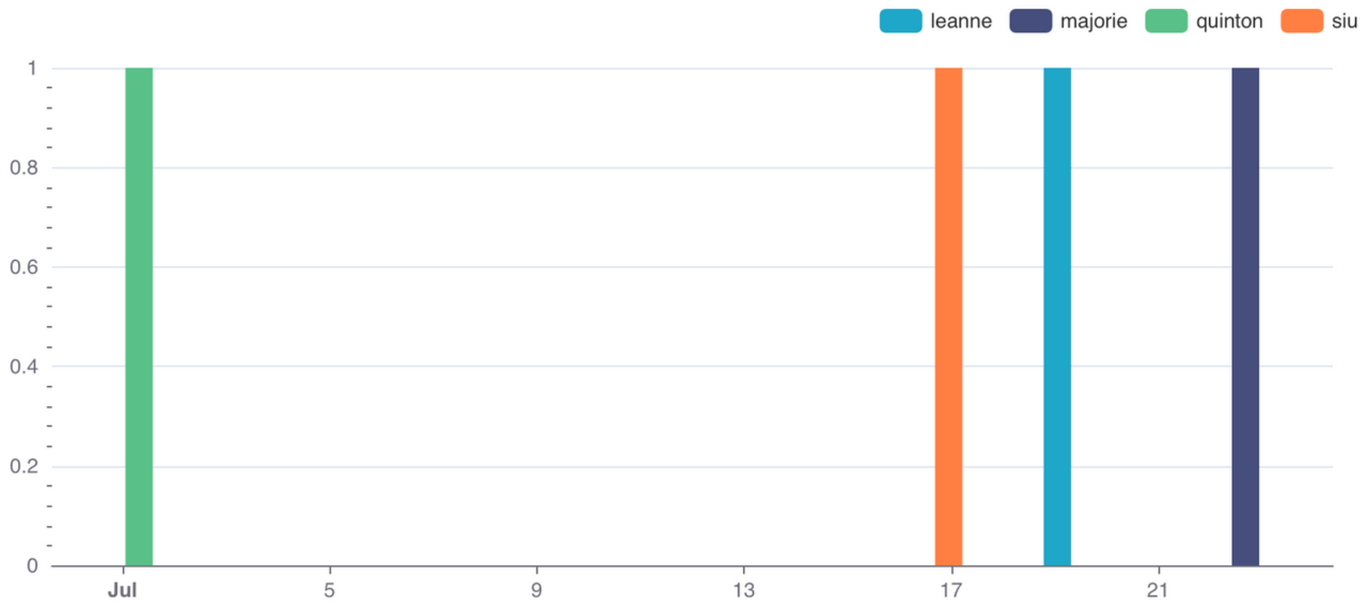
None

FILTERS

- updated > DATE('2020-07-01')
- updated < DATE('2020-08-01')
- updated (No filter)

UPDATE CHART

4 rows 00:00:01.02



RESULTS SAMPLES

Search

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

PROBLEMS BEGONE!

MASS MODIFICATIONS

@malinka

I need to rename a column in Superset, it’s taking me 3 days already!

main.tf

```
16  ## virtual dataset
17  resource "superset_dataset" "admins" {
18    database   = 1
19    schema     = "public"
20    table_name = "admins"
21    sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
22  }
23
24    ### chart 1
25    resource "superset_chart" "admins_july" {
26      slice_name = "admins_july"
27      datasource_type = "table"
28      viz_type = "echarts_timeseries_bar"
29      datasource_id = resource.superset_dataset.admins.id
30      metrics = ["COUNT(id)"]
31      groupby = ["name"]
32      filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
33      filters_having = []
34      time_grain_sqla = "P1D" ##day
35      x_axis = "updated"
36    }
37
38
39
40
41
```

3 5


```
vondrejo@VONDREJO-M-2K67 superset-terraform %
```

main.tf

```
## virtual dataset
resource "superset_dataset" "admins" {
  database   = 1
  schema     = "public"
  table_name = "admins"
  sql        = "SELECT * FROM public.users WHERE is_admin = TRUE"
}

  ### chart 1
  resource "superset_chart" "admins_july" {
    slice_name = "admins_july"
    datasource_type = "table"
    viz_type = "echarts_timeseries_bar"
    datasource_id = resource.superset_dataset.admins.id
    metrics = ["COUNT(id)"]
    groupby = ["name"]
    filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
    filters_having = []
    time_grain_sqla = "P1D" ##day
    x_axis = "updated"
  }
```

3 5

set-terraform %

main.tf

```
## virtual dataset
resource "superset_dataset" "admins" {
  database   = 1
  schema     = "public"
  table_name = "admins"
  sql        = "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
}

  ### chart 1
  resource "superset_chart" "admins_july" {
    slice_name = "admins_july"
    datasource_type = "table"
    viz_type = "echarts_timeseries_bar"
    datasource_id = resource.superset_dataset.admins.id
    metrics = ["COUNT(id)"]
    groupby = ["name"]
    filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
    filters_having = []
    time_grain_sqla = "P1D" ##day
    x_axis = "updated"
  }
```

3 5

et-terraform %

main.tf

```
## virtual dataset
resource "superset_dataset" "admins" {
  database   = 1
  schema     = "public"
  table_name = "admins"
  sql        = "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
}

  ### chart 1
  resource "superset_chart" "admins_july" {
    slice_name = "admins_july"
    datasource_type = "table"
    viz_type = "echarts_timeseries_bar"
    datasource_id = resource.superset_dataset.admins.id
    metrics = ["COUNT(id)"]
    groupby = ["first_name"]
    filters_where = ["updated > DATE('2020-07-01')", "updated < DATE('2020-08-01')"]
    filters_having = []
    time_grain_sqla = "P1D" ##day
    x_axis = "updated"
  }
```

3 5

et-terraform %

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_chart.admins_july will be updated in-place
  ~ resource "superset_chart" "admins_july" {
      ~ groupby         = [
          - "name",
          + "first_name",
        ]
        id              = "2495"
        # (9 unchanged attributes hidden)
    }

  # superset_dataset.admins will be updated in-place
  ~ resource "superset_dataset" "admins" {
        id          = "121"
      ~ sql         = "SELECT * FROM public.users WHERE is_admin = TRUE" -> "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
        # (3 unchanged attributes hidden)
    }

Plan: 0 to add, 2 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value:
```

Terminal: Local Local (2)

```
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform apply
Terraform will perform the following actions:

  # superset_chart.admins_july will be updated in-place
  ~ resource "superset_chart" "admins_july" {
      ~ groupby         = [
          - "name",
          + "first_name",
        ]
        id              = "2495"
        # (9 unchanged attributes hidden)
    }

  # superset_dataset.admins will be updated in-place
  ~ resource "superset_dataset" "admins" {
        id          = "121"
      ~ sql         = "SELECT * FROM public.users WHERE is_admin = TRUE" -> "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
        # (3 unchanged attributes hidden)
    }

Plan: 0 to add, 2 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes
```

Terminal: Local Local (2)

```
        - "name",
        + "first_name",
      ]
      id              = "2496"
      # (9 unchanged attributes hidden)
    }

  # superset_dataset.admins will be updated in-place
  ~ resource "superset_dataset" "admins" {
      id          = "123"
    ~ sql         = "SELECT * FROM public.users WHERE is_admin = TRUE" -> "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
      # (3 unchanged attributes hidden)
    }

Plan: 0 to add, 2 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

superset_dataset.admins: Modifying... [id=123]
superset_dataset.admins: Modifications complete after 1s [id=123]
superset_chart.admins_july: Modifying... [id=2496]
superset_chart.admins_july: Modifications complete after 0s [id=2496]

Apply complete! Resources: 0 added, 2 changed, 0 destroyed.
vondrejo@VONDREJO-M-2K67 superset-terraform %
```

Superset Dashboards Charts Datasets SQL + Settings

admins_july

Not added to any dashb... Superset Admin 58 seconds ago SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

updated

abc id

abc first_name

DATA CUSTOMIZE

BAR CHART 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

+ Drop columns/metrics here or click

DIMENSIONS

abc first_name

+ Drop columns here or click

CONTRIBUTION MODE

None

FILTERS

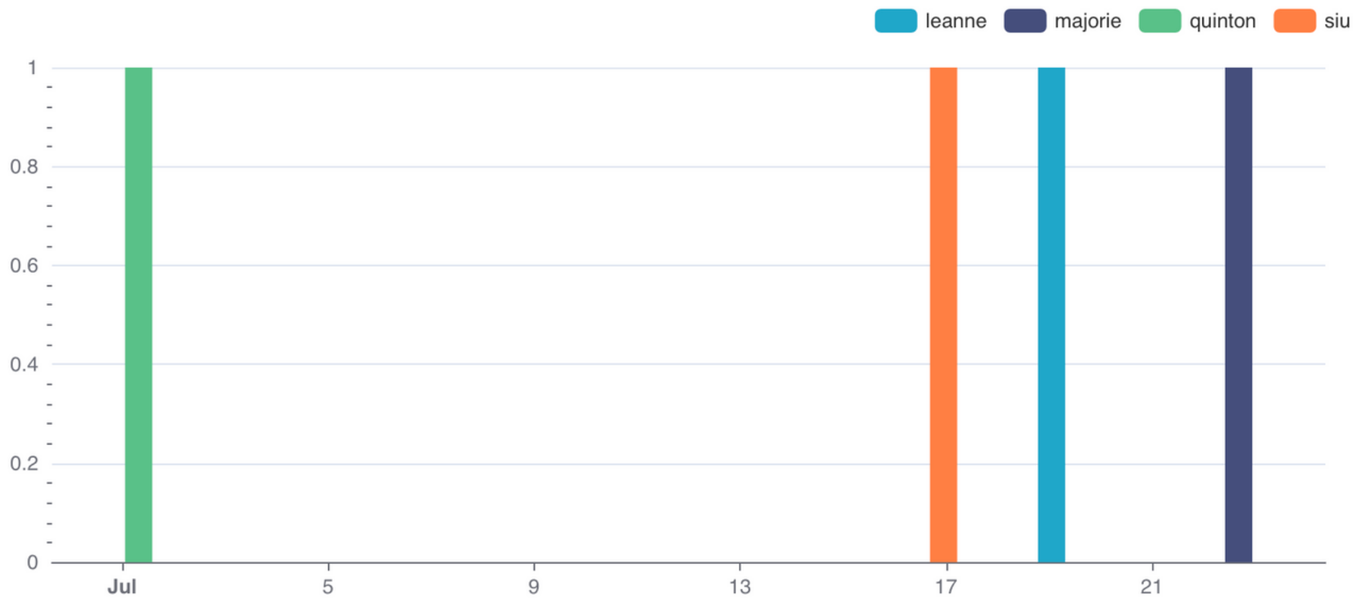
updated > DATE('2020-07-01')

updated < DATE('2020-08-01')

updated (No filter)

UPDATE CHART

4 rows 00:00:00.76



RESULTS SAMPLES

Search

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

Superset Dashboards Charts Datasets SQL Settings

admins_july Not added to any dashb... Superset Admin 58 seconds ago SAVE

Chart Source

public.admins

Search Metrics & Columns

Metrics

Showing 1 of 1

f(x) COUNT(*)

Columns

Showing 3 of 3

updated

abc id

abc first_name

DATA CUSTOMIZE

BAR CHART 4k

View all charts

Query

X-AXIS

f(x) x_axis

TIME GRAIN

Day

METRICS

f(x) COUNT(id)

Drop columns/metrics here or click

DIMENSIONS

abc first_name

Drop columns here or click

FILTERS

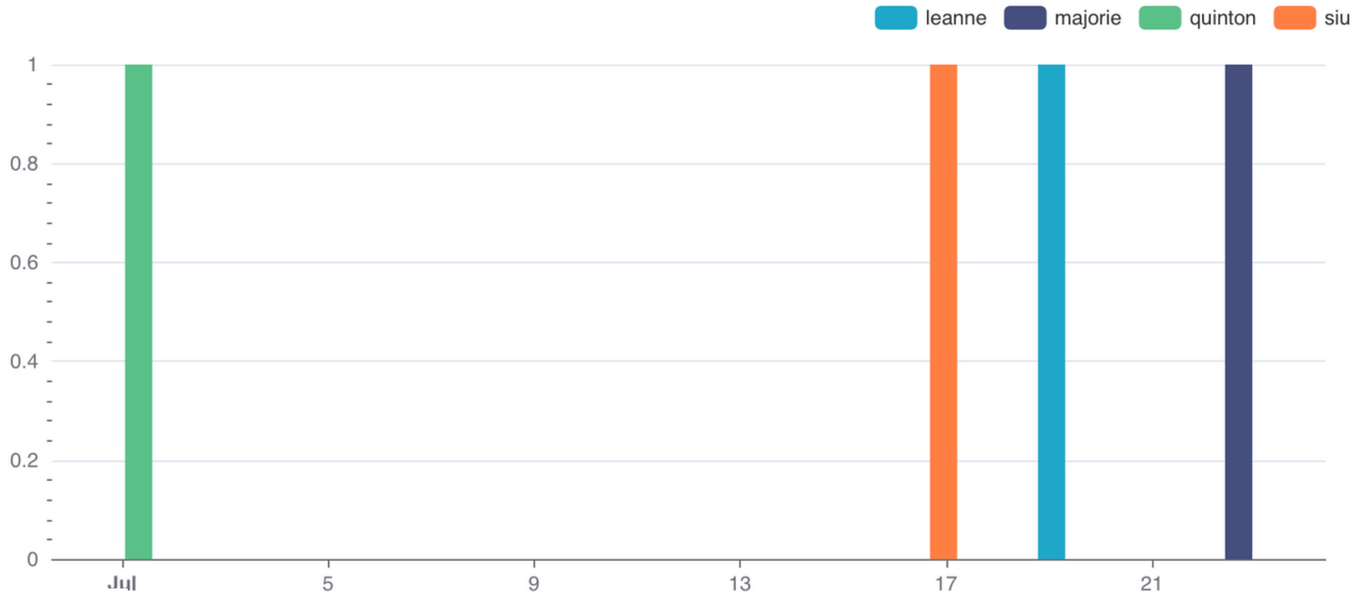
updated > DATE('2020-07-01')

updated < DATE('2020-08-01')

updated (No filter)

UPDATE CHART

4 rows 00:00:00.76



LES

4 rows

x_axis	leanne	majorie	quinton	siu
2020-07-01 00:00:00	N/A	N/A	1	N/A
2020-07-16 00:00:00	N/A	N/A	N/A	1
2020-07-20 00:00:00	1	N/A	N/A	N/A
2020-07-23 00:00:00	N/A	1	N/A	N/A

THE SUPERSET TALK 2.0

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY
- PAIN-FREE MASS MODIFICATIONS

- ~~PAINFUL MASS MODIFICATIONS~~
- REVIEWS
- VERSIONING
- COMPLICATED MIGRATION

VERSIONING + REVIEWS

@kivi

Heey, have you modified my new dashboard?

Anyways, can you please check it for me?

VERSIONING + REVIEWS

SOLUTION

- .TF FILES IN GIT
- PIPELINES FOR TERRAFORM APPLY

THE SUPERSET TALK 2.0

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY
- PAIN-FREE MASS MODIFICATIONS
- SUPERSET IN GIT

- ~~PAINFUL MASS MODIFICATIONS~~
- ~~REVIEWS~~
- ~~VERSIONING~~
- COMPLICATED MIGRATION

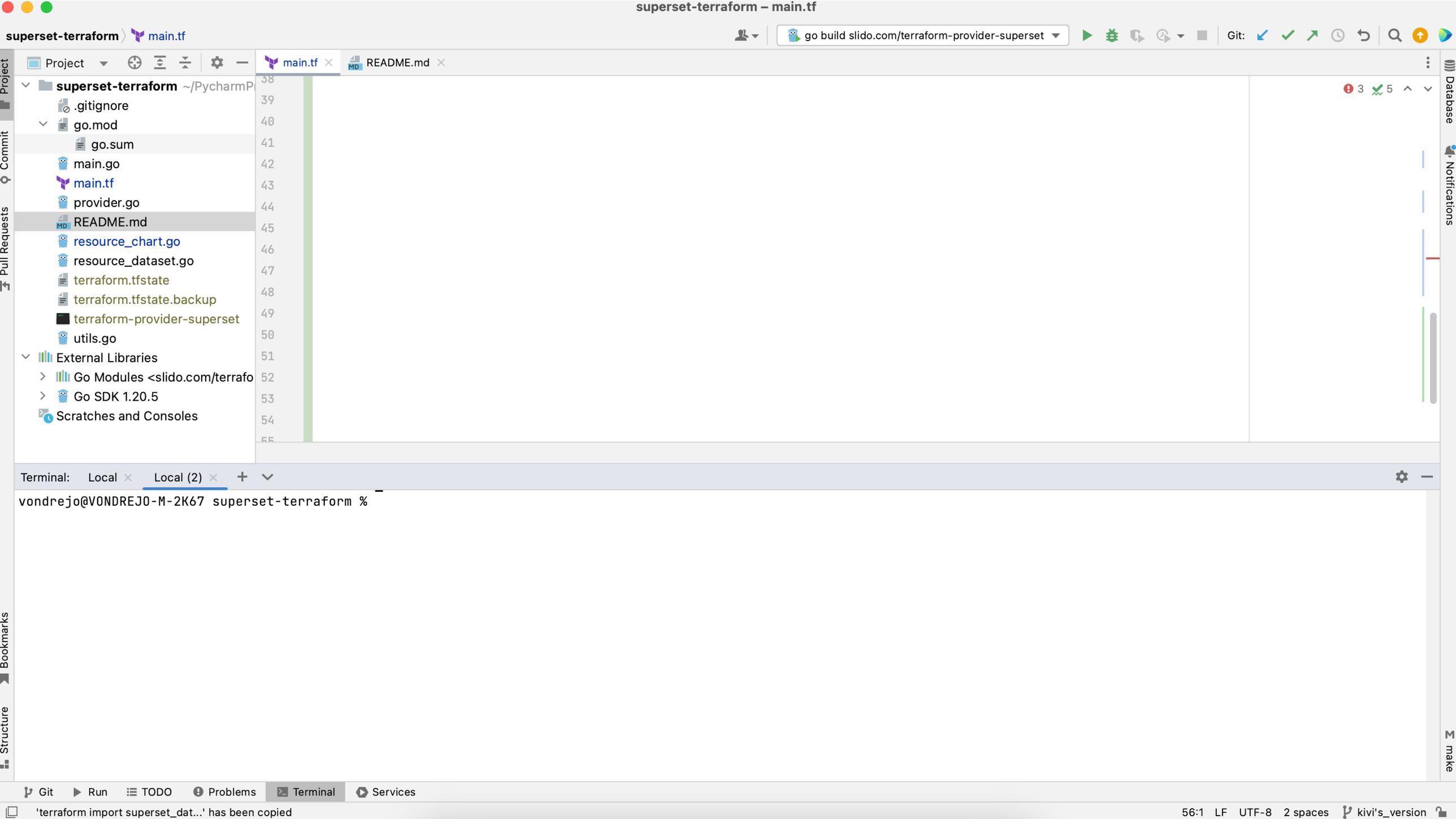
DATA MIGRATION

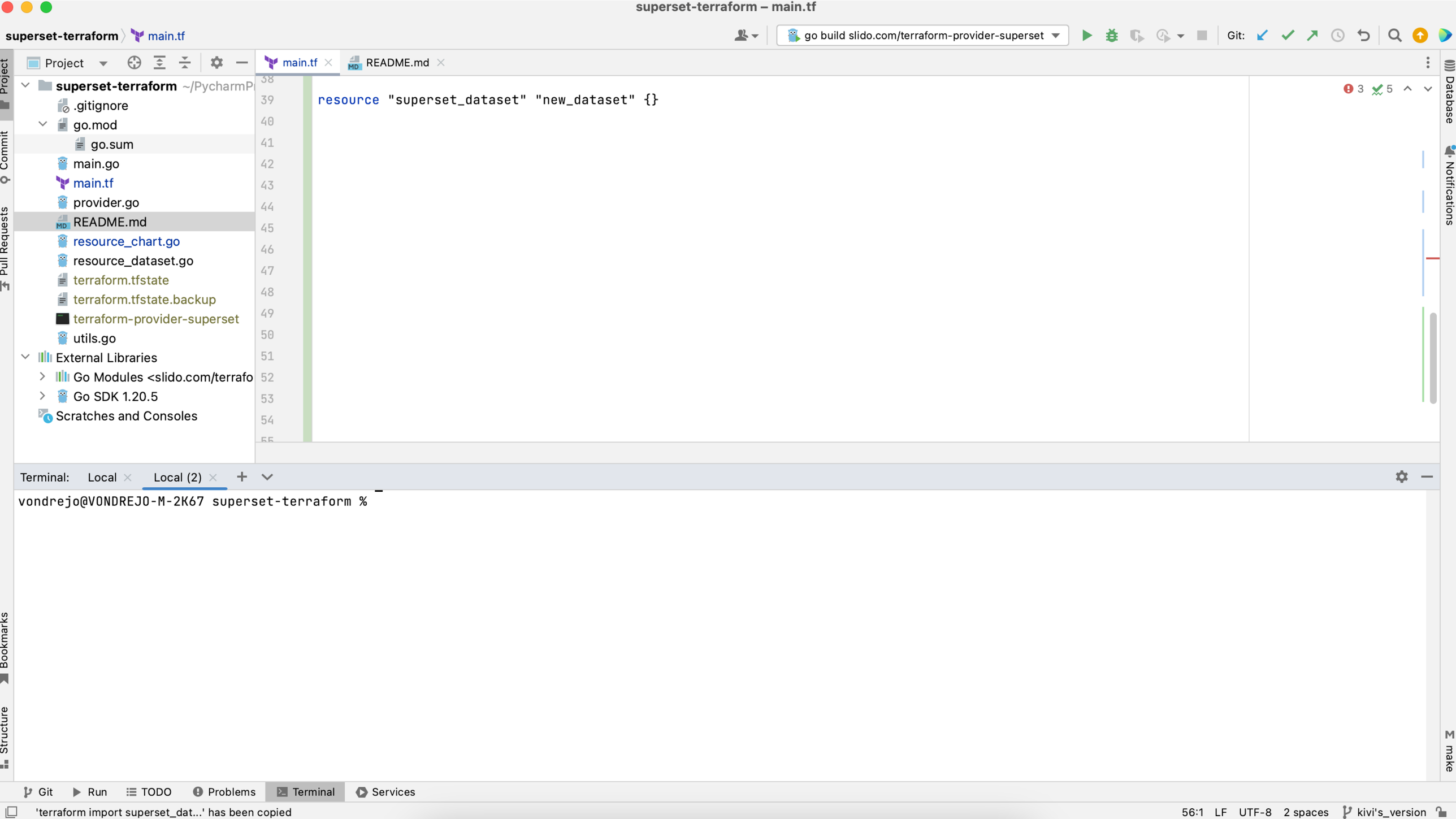
@maros_the_legal_guy

Hiii, we need to migrate our data to US servers! :)

DATA MIGRATION

- TERRAFORM APPLY
- IMPORT


superset-terraform – main.tf
superset-terraform
main.tf
go build slido.com/terraform-provider-superset
Git:
Project
main.tf
README.md
superset-terraform ~/PycharmP
.gitignore
go.mod
go.sum
main.go
main.tf
provider.go
README.md
resource_chart.go
resource_dataset.go
terraform.tfstate
terraform.tfstate.backup
terraform-provider-superset
utils.go
External Libraries
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
3
5
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git
Run
TODO
Problems
Terminal
Services
'terraform import superset_dat...' has been copied
56:1
LF
UTF-8
2 spaces
kivi's_version
Project
Commit
Pull Requests
Bookmarks
Structure
Database
Notifications
make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go build slido.com/terraform-provider-superset
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Scratches and Consoles
38
39 resource "superset_dataset" "new_dataset" {}
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Pull Requests
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Database
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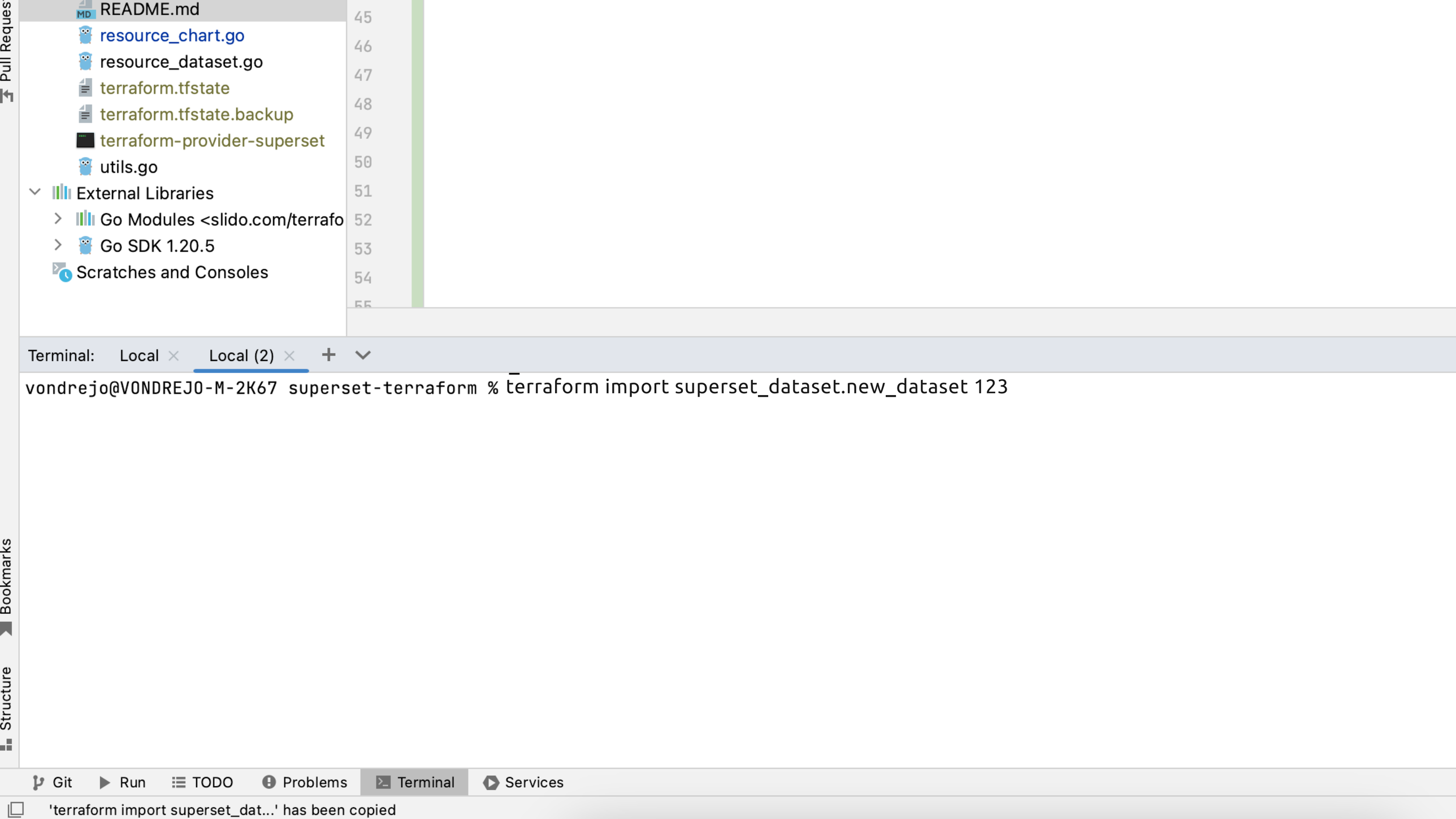
README.md
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terraform.tfstate.backup
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Go SDK 1.20.5
Scratches and Consoles
45
46
47
48
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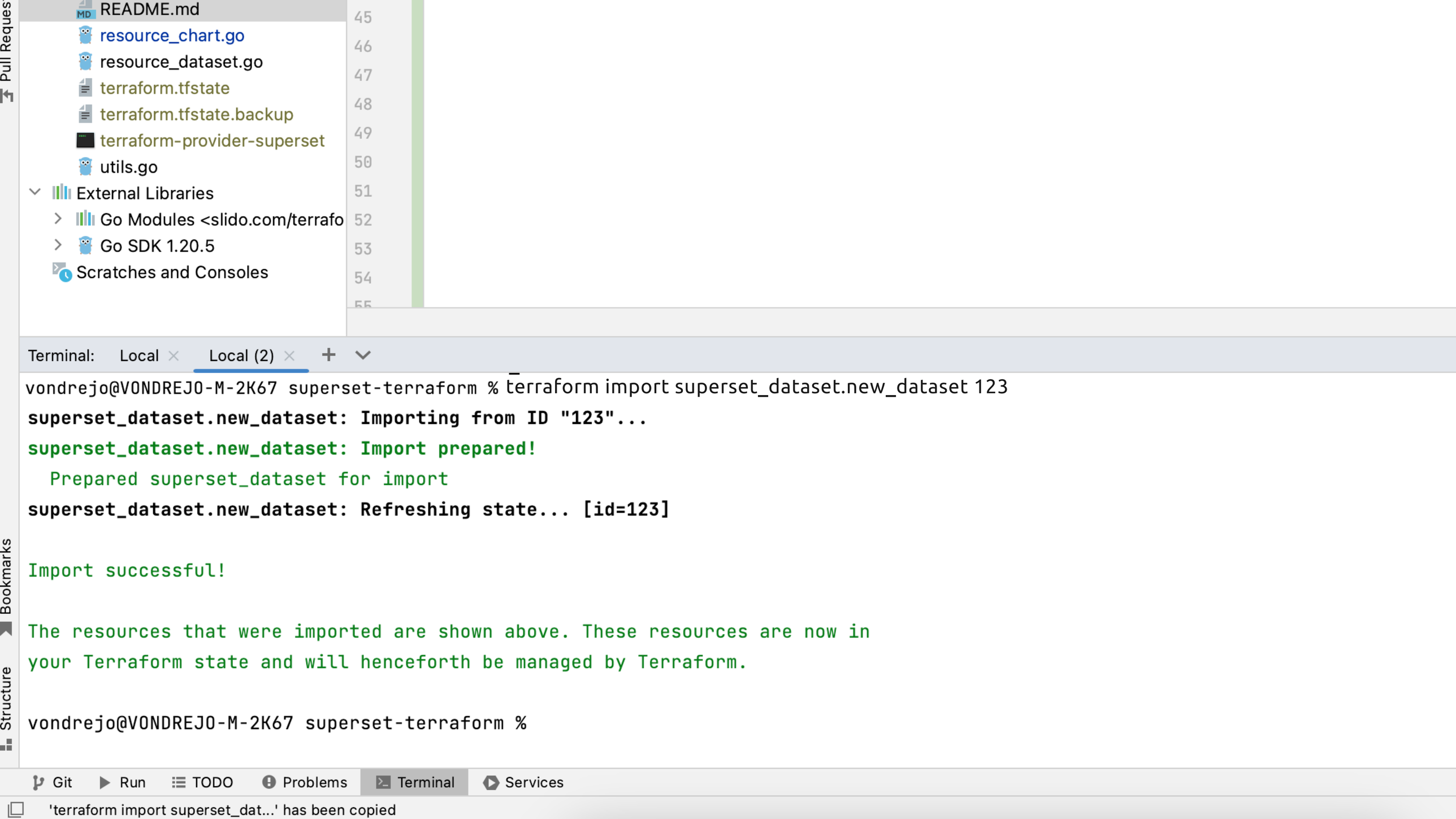
52
53
54
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform import superset_dataset.new_dataset 123
Pull Reques
Bookmarks
Structure
Git
Run
TODO
Problems
Terminal
Services
'terraform import superset_dat...' has been copied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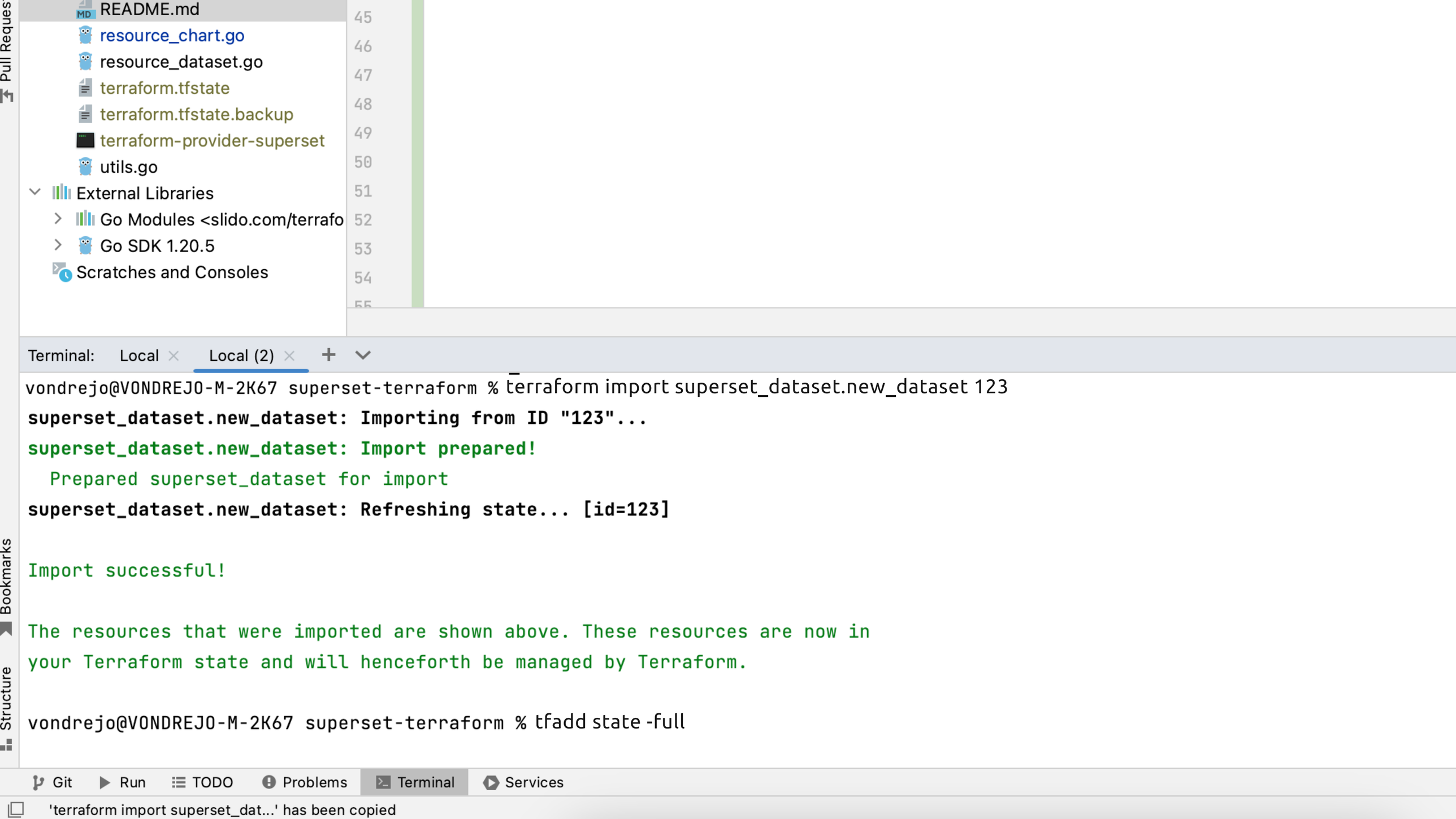
Go Modules <slido.com/terrafo
Go SDK 1.20.5
Scratches and Consoles
Terminal: Local Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform import superset_dataset.new_dataset 123
superset_dataset.new_dataset: Importing from ID "123"...
superset_dataset.new_dataset: Import prepared!
Prepared superset_dataset for import
superset_dataset.new_dataset: Refreshing state... [id=123]
Import successful!
The resources that were imported are shown above. These resources are now in
your Terraform state and will henceforth be managed by Terraform.
vondrejo@VONDREJO-M-2K67 superset-terraform %
Git Run TODO Problems Terminal Services
'terraform import superset_dat...' has been copied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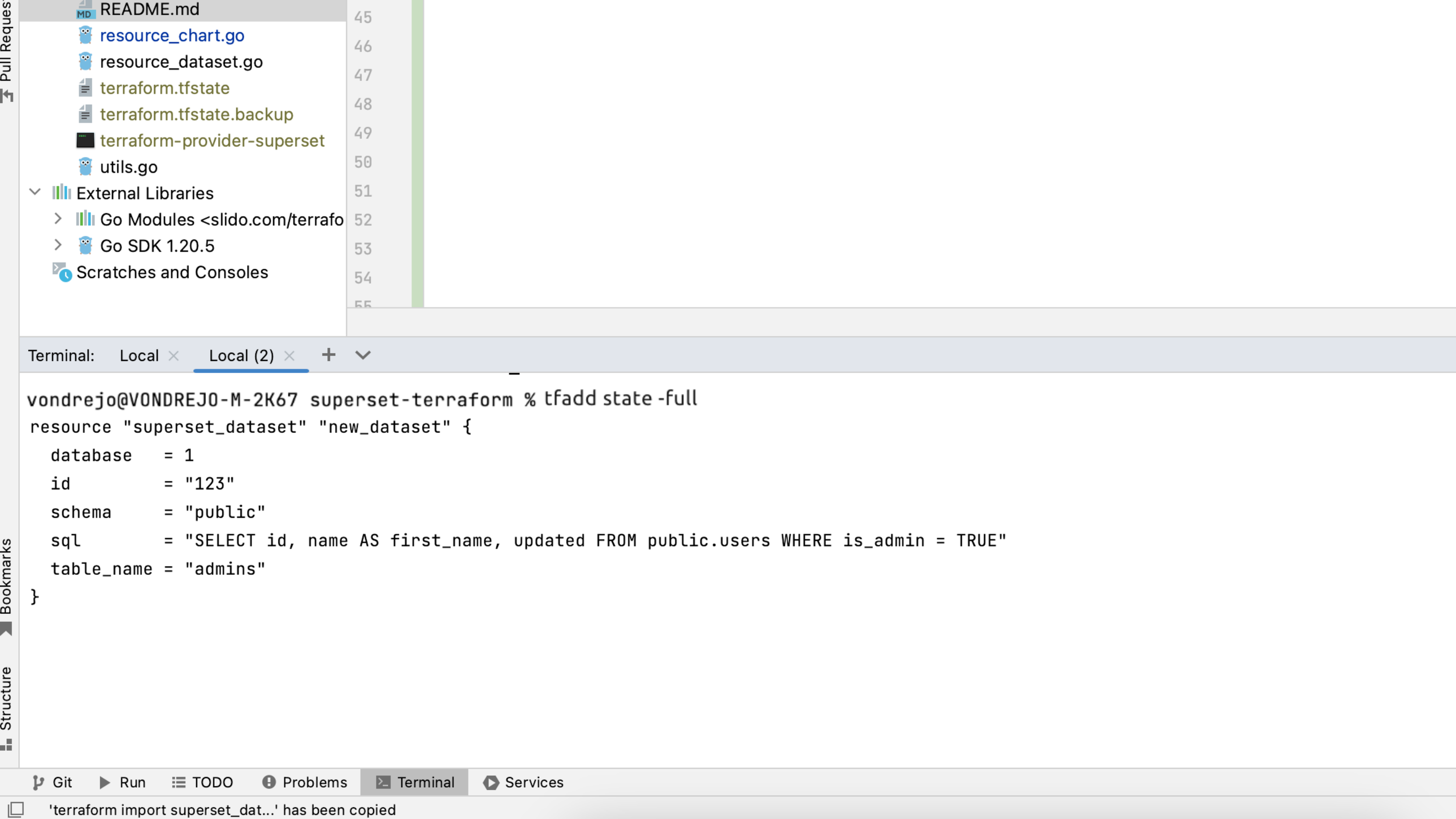
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform % terraform import superset_dataset.new_dataset 123
superset_dataset.new_dataset: Importing from ID "123"...
superset_dataset.new_dataset: Import prepared!
Prepared superset_dataset for import
superset_dataset.new_dataset: Refreshing state... [id=123]
Import successful!
The resources that were imported are shown above. These resources are now in
your Terraform state and will henceforth be managed by Terraform.
vondrejo@VONDREJO-M-2K67 superset-terraform % tfadd state -full
Git
Run
TODO
Problems
Terminal
Services
'terraform import superset_dat...' has been copied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54
Terminal:
Local
Local (2)
vondrejo@VONDREJO-M-2K67 superset-terraform % tfadd state -full
resource "superset_dataset" "new_dataset" {
database = 1
id = "123"
schema = "public"
sql = "SELECT id, name AS first_name, updated FROM public.users WHERE is_admin = TRUE"
table_name = "admins"
}
Git
Run
TODO
Problems
Terminal
Services
'terraform import superset_dat...' has been copied

THE SUPERSET TALK 2.0

- OPEN SOURCE
- SCALABILITY
- ACTIVE COMMUNITY
- PAIN-FREE MASS MODIFICATIONS
- SUPERSET IN GIT
- EFFICIENT MIGRATION

~~PAINFUL MASS MODIFICATIONS~~

~~REVIEWS~~

~~VERSIONING~~

~~COMPLICATED MIGRATION~~

"THE ONLY PREREQUISITE FOR GREATNESS IS A WILLINGNESS TO GOOGLE."

CHATGPT 3.5

THANK YOU