

Demo: Unified Data Catalog for Military Aircraft

Scenario 3: Extend Catalog to Data & AI Workbench

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<https://github.com/drfranknlee/demo-udc-aircraft>

Identify Dataset to be Exported

Results view:

Condensed

Individual

Inspecting records
2

Grouped By

- ☐ Cluster
- ☐ Datasource
- ☐ Filegroup
- ☐ Filename
- ☐ Fileset

Show more...

2 items selected

Generate reportAdd tagsExport data | Cancel

pathfilenameu2 idudc dem2u2 typeu2 widthu2 heightu2 xmi

12001200NUL

1200120064

1 of 1 pages

Matched 2 records from metaocean_view table in 0.02998 seconds

Cancel

Submit

Add tags

2 files selected

udc-dem1

T101389-wkc

Add another tag

Cancel

Submit

T101389-wkc

Query builder

Visual query **SQL query**

Select * from Spectrum Discover where...

udc-dem1 LIKE ('%T101389%')

Group by

Choose groupings



Limit results

10000



Setting a lower limit may increase speed of results.

Reset query

View results

Query builder

Visual query **SQL query**

Select * from Spectrum Discover where...



udc-dem1 LIKE ('%T101389-wkc%')

Group by

Choose groupings



Limit results

10000



Setting a lower limit may increase speed of results.

Query Results

Results view: ?

Condensed

Individual

Inspecting records

3

Grouped By

☐ Cluster

☐ Datasource

☐ Filegroup

☐ Filename

☐ Fileset

Show more...

Matched 3 records from metacore

<input type="checkbox"/>	path	filename	u2 id	udc dem2	u2 type	udc dem1
<input type="checkbox"/>	udc-vault/	T101389/scenario2/annotated/00c54e200e0d868faac8c55bfca70dbe.jpg	T101389-10005	T101389-s2	V22	T101389-wkc
<input type="checkbox"/>	udc-vault/	T101389/scenario2/raw/00c54e200e0d868faac8c55bfca70dbe.jpg	T101389-10005	NULL	V22	T101389-wkc
<input type="checkbox"/>	udc-vault/	T101389/scenario2/T101389-aircraft-manifest-scenario2.csv	NULL	NULL	NULL	T101389-wkc

<

Items per page: 10

1-3 of 3 items

1

Query builder

udc-dem1 LIKE ('%T101389-wkc%')

← Back to query builder

Query Results

Results view: ?

Condensed

Individual

Inspecting records
3

Grouped By

☐ Cluster

☐ Datasource

☐ Filegroup

☐ Filename

☐ Fileset

Show more...

Export Data to Watson Knowledge Catalog

Destination catalog ⓘ

uDCt Catalog1/ee75aff4-fea0-434f-a1eb-deccdd1d8736

Metadata tags to export ⓘ

☐ COLLECTION

☐ classification_score

☐ asset_id

☐ TEMPERATURE

☐ u1-age

☐ u1-outcome

☒ udc-dem2

☐ Td_bh01_tumor

☐ u2-width

☐ image_classifier

☐ u1-gender

☐ u2-height

☐ udc-dem1

☐ u1-location

☒ u2-type

☐ cs-author

☐ u2-xmax

☐ udc-dem3

☐ u1-id

☐ u2-ymax

☐ cs-x-creditcard

☐ u3-latitude

☐ u2-xmin

☐ u3-longitude

☐ u2-ymin

☐ u2-id

Cancel

Submit

Matched 3 records from metaocean_view table in 0.024921 seconds

Generate report

Add tags

Export data

Cancel

	udc dem3	u2 width	u2 height
89-10005	NULL	1200	1200
89-10005	NULL	1200	1200
NULL	NULL	NULL	NULL

1 of 1 pages

Catalogs

Add to Catalog +

uDCt Catalog1

Browse assets Access control Settings

Owner: admin
Added: Sep 21, 2021 12:03 PM
Tags: udc-... u2-ty-...
☆☆☆☆☆ 0 reviews

Owner: admin
Added: Sep 21, 2021 10:39 AM
Tags: u2-ty-...
☆☆☆☆☆ 0 reviews

Owner: admin
Added: Sep 21, 2021 10:39 AM
Tags: u2-ty-...
☆☆☆☆☆ 0 reviews

Owner: admin
Added: Sep 21, 2021 10:36 AM
Tags: udc-...
☆☆☆☆☆ 0 reviews

Owner: admin
Added: Sep 21, 2021 2:27 AM
Tags: udc-...
☆☆☆☆☆ 0 reviews

Owner: admin
Added: Sep 21, 2021 1:34 AM
Tags:
☆☆☆☆☆ 0 reviews

Showing 6 of 6 items

<input type="checkbox"/>	Name ↕	Owner	Tags	Business terms	Type	Date added	
<input type="checkbox"/>	00c54e200e0d868faac8c55bfca70dbe.jpg	admin	u2-type:V22		Data asset	Sep 21, 2021	:
<input type="checkbox"/>	00c54e200e0d868faac8c55bfca70dbe.jpg	admin	udc-dem2:T... u2-type:V22		Data asset	Sep 21, 2021	:
<input type="checkbox"/>	T101389-aircraft-manifest-scenario2.csv	admin			Data asset	Sep 21, 2021	:
<input type="checkbox"/>	community-development-councils-map-of-singapore-pn...	admin	udc-dem2:E...		Data asset	Sep 21, 2021	:
<input type="checkbox"/>	patents-filed-in-singapore-by-country-of-applicant.csv	admin	udc-dem2:E...		Data asset	Sep 21, 2021	:
<input type="checkbox"/>	udc_tucson_icos	admin			Connection	Sep 21, 2021	:

Catalogs / uDCt Catalog1

Add to Catalog +

Data asset

00c54e200e0d868faac8c55bfca70dbe.jpg

Remove [Add to project](#) +

Overview

Asset

Access

Review

Activities

Added: Sep 21, 2021 10:39 AM

Format: Image

Tags

u2-type:V22

Reviews

☆☆☆☆☆

0 reviews

Connection

Source: [udc_tucson_icos](#)

Source type: Cloud Object Storage (infrastr...

^ General

Description

No description added yet.

Path

udc-vault / T101389 / scenario2 / raw / 00c54e200e0d868faac8c55bfca70dbe.jpg /

^ Governance artifacts

Business terms

No business terms added yet.

Classifications

No classifications added yet.

^ Related assets

Show: Any relationship

[Add asset](#) +

Relationship	Asset name	Asset type
--------------	------------	------------

Catalogs / uDC1 Catalog1

Data asset
00c54e200e0d868faac8c55bfca70dbe.jpg [🔗](#)

Overview **Asset** Access Review Activities



IBM Cloud Pak for Data

All

Search

IBM

Catalogs / uDCt Catalog1

Add to Catalog +

Data asset

00c54e200e0d868faac8c55bfca70dbe.jpg

Remove

Add to project +

Overview

Asset

Access

Review

Activities

Added: Sep 21, 2021 12:03 PM

Format: Image

Tags

u2-type:V22

udc-dem2:T101389-s2

Reviews

☆☆☆☆☆

0 reviews

Connection

Source: [udc_tucson_icos](#)

Source type: Cloud Object Storage (infrastr...

^ General

Description

No description added yet.

Path

udc-vault / T101389 / scenario2 / annotated / 00c54e200e0d868faac8c55bfca70dbe.jpg /

^ Governance artifacts

Business terms

No business terms added yet.

Classifications

No classifications added yet.

^ Related assets

Show: Any relationship [Add asset](#) +

Relationship	Asset name	Asset type
--------------	------------	------------

Catalogs / uDc1 Catalog1

Data asset

00c54e200e0d868faac8c55bfca70dbe.jpg ↗


Overview

Asset

Access

Review

Activities




Data asset


T101389-aircraft-manifest-scenario2.csv

Remove [Add to project](#) +

- Overview
- Asset
- Access
- Review
- Profile
- Activities

Added: Sep 21, 2021 10:39 AM

Format: CSV 

Tags 

There are no tags available for this asset.

Reviews

☆☆☆☆☆ 0 reviews

Connection

Source: [udc_tucson_icos](#)

Source type: Cloud Object Storage (infrastr...

^ General

Description 

No description added yet.

Path

udc-vault / T101389 / scenario2 / T101389-aircraft-manifest-scenario2.csv /

^ Governance artifacts

Business terms 

No business terms added yet.


Classifications 

No classifications added yet.

^ Related assets

Show: Any relationship ▾ [Add asset](#) +



Relationship	Asset name	Asset type
https://cp4d-cpd-cp4d.apps.dteocp-50ckc8bbm8-nz1m3.cp.fyre.ibm.com/data/catalogs/ee75aff4-fea0-434f-a1eb-deccdd1d8736/asset/d68a2c2f-03d5-4549-ac05-cf764d8b2886/asset-preview?context=icp4data#		










Data asset
T101389-aircraft-manifest-scenario2.csv 

Remove Add to project +

Overview Asset Access Review Profile Activities

Schema: 9 Columns
Preview: 22 rows

Last refresh: 37 seconds ago  

COLUMN1 String 	u2-width String 	u2-height String 	u2-type String 	u2-xmin String 	u2-ymin String 	u2-xmax String 	u2-ymax String 	u2-id String 
udc-vault/T101389/scen	1000	551	Be200	308	126	651	201	T101389-10000
udc-vault/T101389/scen	1200	800	Mig31	299	197	1102	569	T101389-10001
udc-vault/T101389/scen	1280	850	B1	322	112	893	618	T101389-10002
udc-vault/T101389/scen	1300	867	F35	607	204	1202	529	T101389-10003
udc-vault/T101389/scen	1800	1200	A10	32	60	1800	766	T101389-10004
udc-vault/T101389/scen	1200	1200	V22	647	521	973	768	T101389-10005
udc-vault/T101389/scen	1200	675	A10	560	308	647	329	T101389-10006
udc-vault/T101389/scen	1280	857	F117	176	263	1280	553	T101389-10007
udc-vault/T101389/scen	960	640	C5	58	133	889	397	T101389-10008
udc-vault/T101389/scen	2048	1365	C5	875	398	1110	629	T101389-10009
udc-vault/T101389/scen	960	640	Tu160	1	155	903	506	T101389-10010

IBM Cloud Pak for Data

All

Search

Catalogs

Add to project

Target*

IBM-UDF-Testing

Connections to be added (1)

udc_tucson_icos

uDCt Catalog1

Selected assets (1)

Asset name	Catalog	Connection
T101389-aircraft-manifest-scenario2.csv	uDCt Catalog1	udc_tucson_icos

Cancel

Add

IBM Cloud Pak for Data

All

Search

Projects / IBM-UDF-Testing

↑

+

Add to project

+

ⓘ

🕒

💬

⚙️

Overview

Assets

Environments

Jobs

Access Control



Settings

What assets are you looking for?

▼ Data assets

New data asset +

0 assets selected.

<input type="checkbox"/>	Name	Type	Created by	Last modified	↓
<input type="checkbox"/>	CSV T101389-aircraft-manifest-scenario2.csv	Data Asset	admin	Sep 21, 2021, 12:08 PM	
<input type="checkbox"/>	 udc_tucson_icos	Connection	admin	Sep 21, 2021, 12:08 PM	
<input type="checkbox"/>	 CP4D DB2	Connection	Reginald	Sep 21, 2021, 05:02 AM	



Working with the Manifest: Refine the Manifest in Data Refinery

PreviewProfileActivities

Schema: 9 Columns
Preview: 22 rows

Last refresh: just now

Refine

COLUMN1 String	u2-width String	u2-height String	u2-type String	u2-xmin String	u2-ymin String	u2-xmax String	u2-ymax String	u2-id String
udc-vault/T101389/scena	1000	551	Be200	308	126	651	201	T101389-10000
udc-vault/T101389/scena	1200	800	Mig31	299	197	1102	569	T101389-10001
udc-vault/T101389/scena	1280	850	B1	322	112	893	618	T101389-10002
udc-vault/T101389/scena	1300	867	F35	607	204	1202	529	T101389-10003
udc-vault/T101389/scena	1800	1200	A10	32	60	1800	766	T101389-10004
udc-vault/T101389/scena	1200	1200	V22	647	521	973	768	T101389-10005
udc-vault/T101389/scena	1200	675	A10	560	308	647	329	T101389-10006
udc-vault/T101389/scena	1280	857	F117	176	263	1280	553	T101389-10007
udc-vault/T101389/scena	960	640	C5	58	133	889	397	T101389-10008
udc-vault/T101389/scena	2048	1365	C5	875	398	1110	629	T101389-10009
udc-vault/T101389/scena	960	640	Tu160	1	155	903	506	T101389-10010
udc-vault/T101389/scena	1000	551	Be200					T101389-10000
udc-vault/T101389/scena	1200	800	Mig31					T101389-10001
udc-vault/T101389/scena	1280	850	B1					T101389-10002

Projects / IBM-UDF-Testing / T101389-aircraft-manifest-scen... / Refine data

Operation +

Code an operation to cleanse and shape your data

DataProfileVisualizations

↶↷

Steps

DETAILS➡

CHART TYPE

Scatter plot

Line

Multi-series

Histogram

Population ...

Q-Q plot

Pie

Bar

Parallel

⌵

ACTIONS⌵🔍🔄

+•

+•

Choose a chart above or select columns below, and then choose a chart. If you select columns, suggested charts will be indicated with a dot next to the chart name.

Columns to visualize

Add another column +

1 Steps

Data Source

T101389-aircraft-manifest-scenario2....

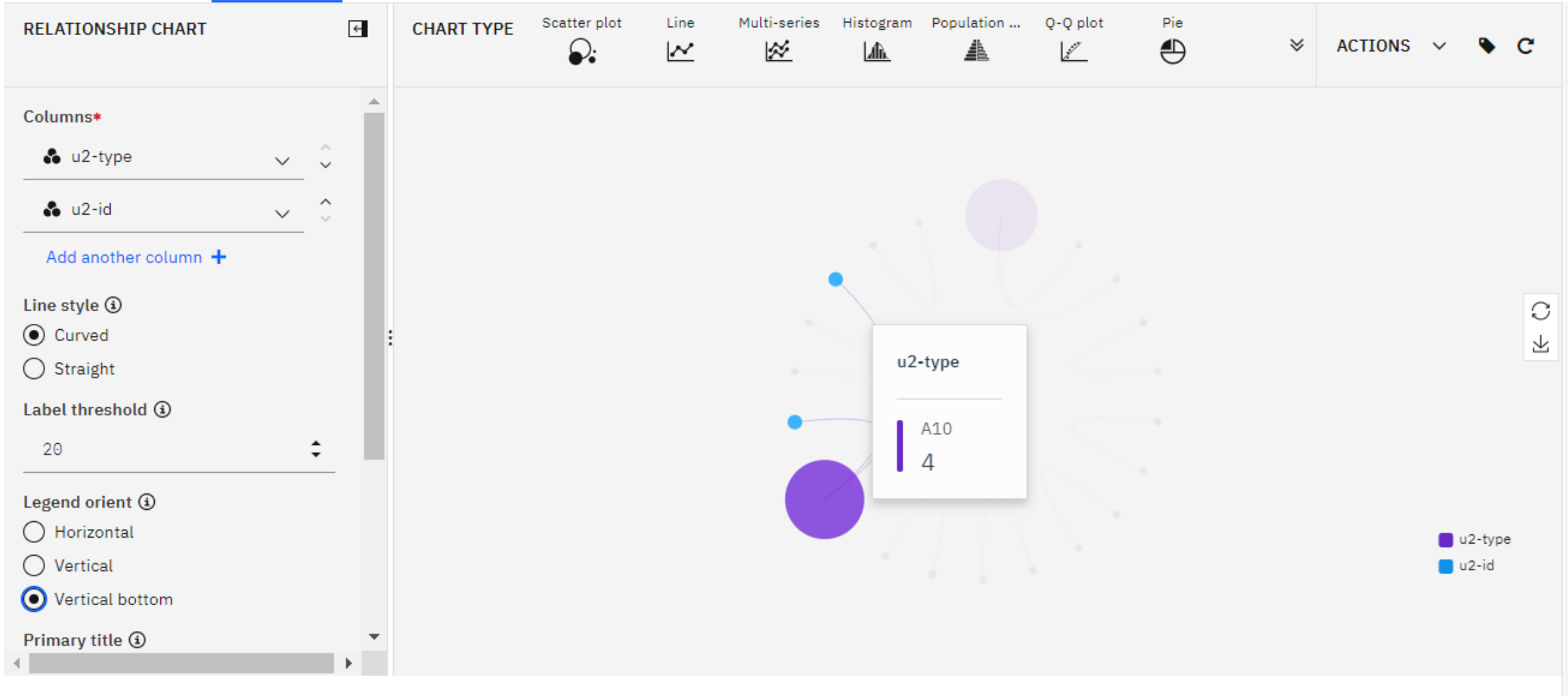
Convert column typeAUTOMATIC

Automatically converted one or more columns to inferred data types. Strings that are converted to decimal use a dot (.) for the decimal symbol.

Operation +

Code an operation to cleanse and shape your data

Data Profile Visualizations



Operation



Code an operation to cleanse and shape your data

Data

Profile

Visualizations



HISTOGRAM CHART



CHART TYPE

Scatter plot



Line



Multi-series



Histogram



Population ...



Q-Q plot



Pie



ACTIONS



X-axis*



u2-height



Split by ⓘ



u2-type



Stacked ⓘ



Stacked



Panelled

Bin Method ⓘ

Auto bin



Show distribution curve ⓘ



On

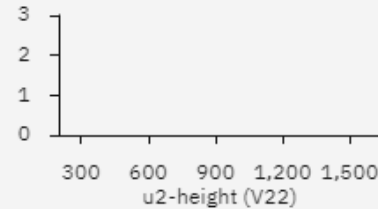
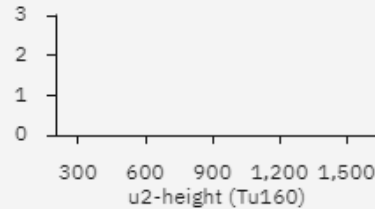
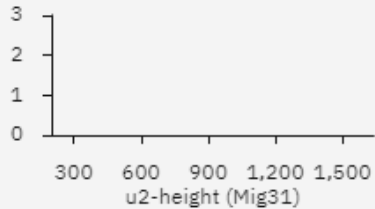
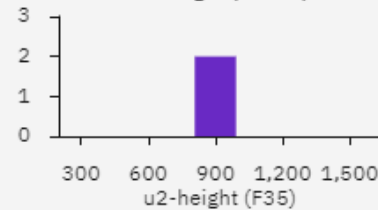
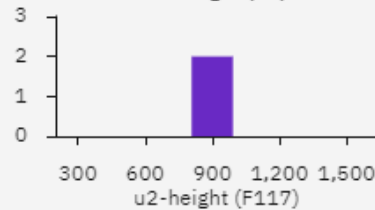
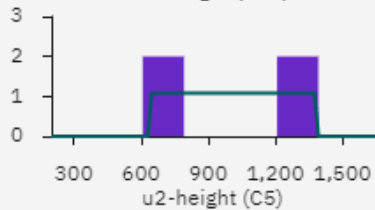
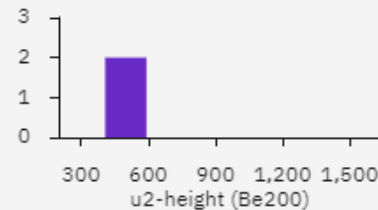
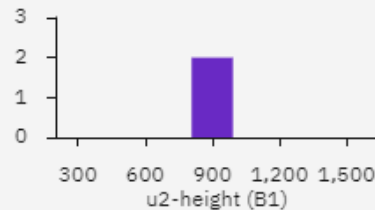
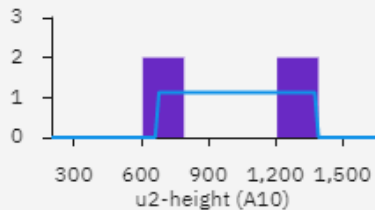
Bin width ⓘ

1



20

5



u2-type

■ Histogram

● A10 Distri...

● C5 Distrib...

Operation +

Code an operation to cleanse and shape your data

Data

Profile

Visualizations

POPULATION PYRAMID CHART

Y-axis*

u2-width

Split by*

u2-type

Bin width

1205

Show distribution curve

On

Primary title

Subtitle

CHART TYPE

Scatter plot

Line

Multi-series

Histogram

Population ...

Q-Q plot

Pie

ACTIONS

2,400

2,100

1,800

1,500

1,200

900

600

5

4

3

2

1

0

1

2

3

4

5

A10

B1

2,400

2,100

1,800

1,500

1,200

900

600

5

4

3

2

1

0

1

2

3

4

5

Be200

C5

2,400

2,100

1,800

1,500

1,200

900

600

5

4

3

2

1

0

1

2

3

4

5

F

F

2,400

2,100

1,800

1,500

1,200

900

600

5

4

3

2

1

0

1

2

3

4

5

M

T

2,400

2,100

1,800

1,500

1,200

900

600

5

4

3

2

1

0

1

2

3

4

5

V22

u2-type

A10

A10 Distrib...

B1

Be200

C5

C5 Distrib...

F117

F35

Mig31

Tu160

V22