Explore
Show event types SELECT * FROM Transaction SELECT count(*) FROM Transaction FROM Transaction SELECT average(
LINKING
SELECT count(*) FROM Transaction FACET appName LIMIT MAX
Patterns
SELECT uniqueCount(session) as 'Visitors now' from PageView where appName = 'WebPortal' since 15 minutes ago SELECT uniqueCount(session) as 'Visitors' from PageView where appName = 'WebPortal' since 1 day ago TIMESERIES SELECT uniqueCount(session) as 'Visitors' from PageView where appName = 'WebPortal' since 1 week ago TIMESERIES
-Time range & Time Series
SELECT count(*) FROM TransactionError SINCE 3 days ago UNTIL 5 hours ago TIMESERIES
Make more detailed with smaller buckets:  SELECT count(*) FROM TransactionError SINCE 3 days ago UNTIL 5 hours ago TIMESERIES 30 minutes  SELECT count(*) FROM TransactionError SINCE 3 days ago UNTIL 5 hours ago TIMESERIES
MAX
-Try out Time Series & Time Spans
SELECT count(*) FROM Transaction WHERE httpResponseCode = '500' SINCE UNTIL

SELECT average(pageRenderingDuration) FROM PageView SINCE 12 hours ago TIMESERIES TIMESERIES 5 minutes TIMESERIES MAX
-Adding your own Values & Thresholds to charts
SELECT count(*), 550 AS 'min', 1250 AS 'high' FROM TransactionError SINCE 3 days ago UNTIL 5 hours ago TIMESERIES MAX
-Compare performance over time SINCECOMPARE WITH
SELECT uniqueCount(session) FROM PageView where appName ='Frontend' since 1 week ago compare with 4 week ago timeseries 1 hour
-Compare metrics/attributes with multi function SELECT more than one function on an event type
SELECT average(backendDuration), average(duration) FROM PageView WHERE appName ='Frontend' TIMESERIES 1 minute
SELECT average(duration ) AS 'pageload', average(pageRenderingDuration ) AS 'page render', average(backendDuration ) AS 'web app + network' FROM PageView where appName ='Frontend'

SELECT average(duration) from PageView facet pageUrl, countryCode, city SELECT count(\*) FROM Transaction FACET CASES (WHERE name LIKE '%cart%' AS 'cart', Where name LIKE '%checkout%' AS 'checkout', WHERE name LIKE '%shipping%' AS 'shipping') SELECT count(\*) from PageView facet cases(where backendDuration < 0.5 as '<0.5', where backendDuration < 1 as '0.5-1', where backendDuration >= 1 as '>1') -Multi-Query (+add Query) multi-account Account: Demo Prod SELECT average(duration) as 'Frontend' FROM Transaction TIMESERIES WHERE appName ='Frontend' Account: Other SELECT average(duration ) as 'xxxxx' FROM Transaction TIMESERIES WHERE appName ='xxxxxxx' -FUNNEL SELECT funnel(session, WHERE pageUrl like '%/' AS 'Homepage', where pageUrl like '%product%' AS 'Place bet', WHERE pageUrl LIKE '%check%' AS 'cart', WHERE pageUrl LIKE '%error%' AS 'shipping') FROM PageView SINCE 1 day ago -HiSTOGRAM SELECT histogram(duration, 10, 20) FROM PageView SINCE 1 week ago -Apps > Custom Viz > Radar SELECT count(\*) FROM PageView FACET city LIMIT MAX WHERE city != 'San Jose' AND city IS NOT NULL

Misc:

SELECT average(duration) FROM Transaction WHERE appName = 'FoodMe' SELECT average(duration) FROM Transaction FACET appName WHERE appName = 'Billing Service' OR appName = 'Delivery' SELECT average(duration) FROM Transaction FACET appName WHERE appName IN ('Billing Service','Inventory Service','Delivery') SELECT average(duration) FROM Transaction FACET appName WHERE appName LIKE '%Service%'
NULL VALUES
SELECT * FROM Transaction WHERE appName = 'WebPortal' WHERE couponCode is not null
LIMIT MAX
SELECT count(*) FROM Log WHERE namespace_name NOT LIKE '%acme' FACET message SINCE 10 minutes ago LIMIT MAX
Lab: Query part of your data
/* Add a chart to show average page performance for specific browsers (userAgentName). Use the WHERE IN clause to include Chrome, Safari, and Microsoft Edge: */
SELECT average(duration) FROM PageView FACET userAgentName WHERE
/* Add a chart to show average page performance for specific pages (pageUrl). Use the WHERE LIKE clause and wildcards to include any urls that contain 'phones': */
SELECT average(duration) FROM PageView FACET pageUrl WHERELIKE ''

--WHERE

Aggregate functions
--Count/Average/Min/Max/Percentile/Percentage count

SELECT count(attribute) FROM Transaction SELECT count(\*) FROM Transaction FACET Name SELECT average(duration) FROM Transaction FACET appName SELECT percentile(duration, 5, 50, 95) FROM PageView TIMESERIES AUTO SELECT percentage(count(result), WHERE result !='SUCCESS') FROM SyntheticCheck Lab: Aggregate functions -- Try out these aggregate functions. Percentile: /\* You want to understand more about outlier performance for your pages Show the 95th percentile of pageview durations grouped by browser (userAgentName). Use SELECT percentile(attribute [, percentile ]) \*/ SELECT \_\_\_\_\_ (\_\_\_\_\_, 95) FROM PageView FACET \_\_\_\_\_ Percentage: --Show the percentage of your pageviews which reach the 'shoppingcart' using a string match in the pageUrl SELECT percentage(function(attribute), WHERE condition) FROM eventType SELECT (Count(\*), where pageUrl LIKE '%cart%') FROM PageView Time ranges and TIMESERIES --SINCE, SINCE...UNTIL, TIMESERIES --SINCE SELECT ... SINCE 1 day AGO | SELECT ... SINCE yesterday | SELECT ... SINCE sunday --SINCE ... UNTIL SELECT ... SINCE 3 days ago UNTIL 5 hours ago --Add TIMESERIES to your queries to plot over time SELECT ... SINCE 3 days ago SINCE 5 hours ago TIMESERIES

--Add a value after the TIMESERIES to indicate the evaluation window,

# SELECT ... SINCE 1 day AGO TIMESERIES 30 minutes

Add MAX after TIMESERIES to get the max no. of intervals in the time window (auto scales)(The maximum number of TIMESERIES buckets that will be returned is 366) SELECT SINCE 1 day AGO TIMESERIES MAX
Adding your own values to chartsSELECT function(attribute), value x AS 'x', value y AS 'y'
SELECT average(cpuPercent), 6 AS 'min', 26 AS 'high' FROM SystemSample TIMESERIES
Lab: Try out time spans and TIMESERIESTry out these queries
SELECT count(*) FROM Transaction WHERE httpResponseCode = '500' SINCE SINCE UNTIL
SELECT average(pageRenderingDuration) FROM PageView SINCE 12 hours ago TIMESERIES TIMESERIES 5 minutes TIMESERIES MAX
Adding your own values to chartsSELECT function(attribute), value x AS 'x', value y AS 'y'
SELECT average(cpuPercent), 6 AS 'min', 26 AS 'high' FROM SystemSample TIMESERIES
Lab: Try out time spans and TIMESERIESTry out these queries
SELECT count(*) FROM Transaction WHERE httpResponseCode = '500' SINCE SINCE UNTIL
U1170E U1171E

SELECT average(pageRenderingDuration) FROM PageView SINCE 12 hours ago TIMESERIES TIMESERIES 5 minutes TIMESERIES MAX
Lab: Rate, TIMESERIES and SLIDE BYTry out these queries and explore the results.
Run these queries and note the x axis values stay constant. Save one to your dashboard select rate(count(*), 1 minute ) FROM Transaction since 12 hours ago timeseries select rate(count(*), 1 minute ) FROM Transaction since 1 day ago timeseries
SLIDE BY example - try one query then the second query. Try out larger TIMESERIES windows and larger SLIDE BY amounts SELECT average(duration) FROM Transaction timeseries 1 minute SELECT average(duration) FROM Transaction timeseries 6 minute SLIDE BY 3 minute
Lab: Multi FACET and FACET CASES
Add a Bar or Pie chart using a Multi-Facet query eg. :What are my 5 worst page load durations grouped by Browser (userAgentName), CountryCode, PageUrl
SELECT max(duration) FROM PageView WHERE appName ='WebPortal' FACET userAgentName, countryCode, pageUrl LIMIT 5
Use FACET CASES to show me how many PageViews durations are less than than 6 seconds, and longer than 6 seconds:  SELECT count(*) FROM PageView FACET CASES (WHERE < 6, WHERE duration)
Lab: Try one of thesePick one of the below and try it out

--Show the average duration of my pageloads grouped by pageUrl. Some of them are over 5 seconds!

SELECT average(duration) AS 'avdur' FROM PageView LIMIT MAX FACET pageUrl

--Narrow down the list of my pageloads which have an average duration 'avdur' > 5 seconds. Make sure to match the label (avdur) as your attribute to filter on

SELECT \* FROM (SELECT average(duration) AS 'avdur' FROM PageView LIMIT MAX FACET pageUrl) WHERE avdur > 5

--RLIKE example: Show the transactions which used a coupon code and for a subset of products which have 8 values, but start with the value 6 and have any combination of 7 numbers after the 6.

SELECT \* FROM Transaction WHERE appName = 'WebPortal' AND couponCode is not null AND request.uri RLIKE '.\*6.{7}'

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#### Multi function

--SELECT more than one function on an event type

SELECT average(duration ) AS 'pageload', average(pageRenderingDuration ) AS 'page render', average(backendDuration ) AS 'web app + network' FROM PageView where appName ='WebPortal'

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### Compare

--use SINCE ... COMPARE WITH

SELECT uniqueCount(session) FROM PageView where appName='WebPortal' since 1 week ago compare with 4 week ago timeseries 1 hour

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Funnel, Histogram, Heatmap

#### --Funnel

SELECT funnel(session, WHERE pageUrl like '%/' AS 'Homepage', where pageUrl like '%/browse/plans' AS 'Place bet', WHERE pageUrl LIKE '%login.jsp' AS 'Login', WHERE pageUrl LIKE '%/checkout' AS 'Confirm') FROM PageView SINCE 1 day ago

Histogram

Create a chart with a Histogram of back-end response times (Transaction)ranging up to 2 seconds with 10 buckets SELECT histogram(,,) FROM SINCE 1 day ago
heatmapTurn this into a heatmap of response times by adding FACET appName SELECT histogram(,) FROM SINCE 1 day ago FACET appName
Customise widgets
SELECT * FROM NginxSample
SELECT average(cpuPercent ) FROM SystemSample TIMESERIES
Lab: Challenge yourself!Add some of these useful charts. use DemotronV2 account and WebPortal application:
1Count only http 500 errors from your Transaction event type and group by transaction name and transactionSubType
2SELECT the following function(attribute) and label from the PageView event to find out how many visitors are on my site right now?(use SINCE 5 minutes ago) uniqueCount(session) AS 'Site Visitors'
3You have added a custom attribute to your Transaction event type in the WebPortal app to store shopping cart total value called PurchasedCartGrandTotalSELECT the total shopping cart value using the function(atribute):
sum(PurchasedCartGrandTotal)

## **Custom Visualisations**

SELECT count(\*) FROM PageView FACET city LIMIT MAX WHERE city != 'San Jose' AND city IS NOT NULL