

Selecting series

Select latest sample for series with a given metric name:

```
Select * from Kubernetes WHERE series = 'node_cpu_seconds_total'
```

Select 5-minute range of samples for series with a given metric name:

```
Select * from Kubernetes WHERE series = 'node_cpu_seconds_total' AND time > 10192 - 4*1024
```

Only series with given label values:

```
Select * from Kubernetes WHERE cpu="0" AND mode="idle" AND series = 'node_cpu_seconds_total'
```

Complex label matchers:

```
Select * from Kubernetes WHERE cpu!="0" AND mode="idle" AND series = 'node_cpu_seconds_total'
```

=: Equality

!=: Non-equality

=: Regex match

!~: Negative regex match

Math between series

Add all equally-labelled series from both sides:

```
Select * from Kubernetes where series = 'node_cpu_seconds_total' AND series = 'node_cpu_seconds_total'
```

Add series, matching only on the instance and job labels:

```
Select job, instance from Kubernetes where metric_name = 'node_memory_MemFree_bytes' AND series = 'node_memory_MemFree_bytes'
```

Filtering series by value

Only keep series with a sample value greater than a given value:

```
Select * from Kubernetes where metric_name = 'node_cpu_seconds_total' AND value > 10192 - 4*1024
```

Only keep series from the left hand side whose sample values are larger than their right-hand side:

```
Select * from Kubernetes where go_goroutines > go_threads
```

Instead of filtering, return 0 or 1 for each compared series:

```
Select * from Kubernetes where go_goroutines > go_threads
```

Match only on specific labels:

```
Select * from Kubernetes where go_goroutines > go_threads AND instance = 'node_cpu_seconds_total'
```

Available comparison operators: ==, !=, >, <, >=, <=

Set operations

Include any label sets that are either on the left or right side:

```
Select series, job from Kubernetes where =up AND (job="prometheus" OR job="node_cpu_seconds_total")
```

Match only on specific labels:

```
Select * from Kubernetes where go_goroutines > go_threads AND series = 'node_cpu_seconds_total'
```

Aggregating over multiple series

Aggregate all series:

```
Select * from Kubernetes where metric_name = 'node_cpu_seconds_total'
```

Preserve the instance and job label dimension

```
Select * from Kubernetes where go_goroutines > go_threads
```

Aggregate away the instance and job label dimension:

```
Select * from Kubernetes where go_goroutines > go_threads
```

Available aggregation operators: sum(), min(), max(), avg(), count(), etc.



By Mehmood
cheatography.com/mehmood/

Published 22nd May, 2021.
Last updated 22nd May, 2021.
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