



Custom Visual: Matrix

Microsoft PowerBl

Confidential

Matrix: Basic

| Hours <u>=</u> | Steps |
|-------------------------|-------|
| 12:00 AM – 1:00 AM CST | 26 |
| 8:00 AM – 9:00 AM CST | 125 |
| 10:00 AM – 11:00 AM CST | 300 |
| 2:00 PM – 3:00 PM CST | 303 |
| 8:00 PM – 9:00 PM CST | 405 |

| Date & Time | Heart Rate |
|-------------------|------------|
| Sat, Oct 16, 2021 | 54 – 165 |
| 12:59:45 AM CST | 54 |
| 01:55:30 AM CST | 60 |
| 02:55:45 AM CST | 58 |
| 03:45:55 AM CST | 56 |
| 03:46:56 AM CST | 57 |

Note: Need the ability to make row a measure with a grouping (e.g., episode ID)



Matrix: Expansion

| Date & Time | Steps 🚊 |
|-------------------------|---------|
| Fri, Oct 15, 2021 | 3,000 |
| Sat, Oct 16, 2021 | 3,000 |
| 12:05 AM – 12:06 AM CST | 26 |
| 12:28 AM – 12:38 AM CST | 125 |
| 12:42 AM – 12:55 AM CST | 300 |
| 8:42 AM – 8:55 AM CST | 303 |
| 1:00 PM – 1:05 PM CST | 405 |

| Date & Time | Heart Rate (bpm) |
|----------------------------|------------------|
| ∨ Fri, Oct 15, 2021 | 50 – 150 |
| △ Sat, Oct 16, 2021 | 55 – 165 |
| 12:59:45 AM CST | 54 |
| 01:55:30 AM CST | 60 |
| 02:55:45 AM CST | 58 |
| 03:45:55 AM CST | 56 |
| 03:46:56 AM CST | 57 |

Note: Ability to choose icon for expansion (i.e., +/-, up / down arrow)



| ☐ Date & Time ☐ | Kilocalories (kcal) |
|---|---------------------|
| # Fri, Oct 15, 2021 | 3,000 |
| Sat, Oct 16, 2021 | 3,000 |
| 12:05 PM CST Turkey Sandwich with Cheddar Cheese and Lettuce 1 serving | 200 |
| 12:10 PM CST Fruit Smoothie 8 Fl. Oz. | 125 |
| 03:10 PM CST Pretzel Chips 20 Chips | 100 |
| 03:10 PM CST Plain Hummus 5 Oz. | 100 |

| ⊕ Date & Time ड | Kilocalories (kcal) |
|--|---------------------|
| Fri, Oct 15, 2021 | 3,000 |
| Sat, Oct 16, 2021 | 3,000 |
| 12:00 PM – 01:00 PM CST | 325 |
| 12:05 PM CST Turkey Sandwich with Cheddar Cheese and Lettuce 1 serving | 200 |
| 12:10 PM CST Fruit Smoothie 8 Fl. Oz. | 125 |
| + 03:00 PM – 04:00 PM CST | 200 |

Note: Need ability to make the entire left column control expansion and only value(s) leads to selection



Matrix: Merge Columns

| Date <u>=</u> | Blood Pressure (mmHg) |
|---------------------|-----------------------|
| # Fri, Oct 15, 2021 | 120-115 / 80-75 |
| Sat, Oct 16, 2021 | 120-110 / 80-70 |
| 12:59:45 AM CST | 120 / 80 |
| 01:55:30 AM CST | 110 / 75 |
| 02:55:45 AM CST | 111 / 78 |
| 03:45:55 AM CST | 120 / 80 |
| 03:46:56 AM CST | 115 / 70 |

Note: Ability to choose delimiter between columns – use column 1 label for the column



Matrix: Add Columns

Option 1: Value First

| Date <u>=</u> | Kilocalories (kcal) | | | |
|-------------------|---------------------|-----------|---------|-------|
| Date <u>=</u> | Morning | Afternoon | Evening | Total |
| Fri, Oct 15, 2021 | 300 | 400 | 500 | 1,200 |
| Sat, Oct 16, 2021 | 250 | 500 | 600 | 1,350 |
| Sun, Oct 17, 2021 | 300 | 400 | 500 | 1,200 |
| Mon, Oct 18, 2021 | 250 | 500 | 600 | 1,350 |
| Tue, Oct 19, 2021 | 300 | 400 | 500 | 1,200 |
| Wed, Oct 20, 2021 | 250 | 500 | 600 | 1,350 |
| Thu, Oct 21, 2021 | 300 | 400 | 500 | 1,200 |

Note: Ability to choose if the value or column is first in the hierarchy



Matrix: Add Columns

Option 2: Column Group First

| Data = | Morning | | Afternoon | | Total | |
|-------------------|----------|---------|-----------|---------|----------|---------|
| Date <u>=</u> | Calories | Protein | Calories | Protein | Calories | Protein |
| Fri, Oct 15, 2021 | 300 | 50 | 500 | 50 | 800 | 100 |
| Sat, Oct 16, 2021 | 250 | 40 | 600 | 60 | 850 | 100 |
| Sun, Oct 17, 2021 | 300 | 50 | 500 | 50 | 800 | 100 |
| Mon, Oct 18, 2021 | 250 | 40 | 600 | 60 | 850 | 100 |
| Tue, Oct 19, 2021 | 300 | 50 | 500 | 50 | 800 | 100 |
| Wed, Oct 20, 2021 | 250 | 40 | 600 | 60 | 850 | 100 |
| Thu, Oct 21, 2021 | 300 | 50 | 500 | 50 | 800 | 100 |

Note: Ability to choose if the value or column is first in the hierarchy



Option 1: Summary Header Highlighted

| Date | Steps |
|-------------------------|-------|
| ☐ Fri, Oct 15, 2021 | 3,000 |
| Sat, Oct 16, 2021 | 3,000 |
| 12:05 AM – 12:06 AM CST | 26 |
| 12:28 AM – 12:38 AM CST | 125 |
| 12:42 AM – 12:55 AM CST | 300 |
| 8:42 AM – 8:55 AM CST | 303 |
| 1:00 PM – 1:05 PM CST | 405 |

Option 2: Banded Rows

| Date | Heart Rate |
|---------------------|------------|
| ♣ Fri, Oct 15, 2021 | 50 – 150 |
| ■ Sat, Oct 16, 2021 | 55 – 165 |
| 12:59:45 AM CST | 54 |
| 01:55:30 AM CST | 60 |
| 02:55:45 AM CST | 58 |
| 03:45:55 AM CST | 56 |
| 03:46:56 AM CST | 57 |



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| 12:42 AM – 12:55 AM CST | 300 |
| 8:42 AM – 8:55 AM CST | 303 |
| 1:00 PM – 1:05 PM CST | 405 |

| | Heart Rate |
|---------------------|------------|
| # Fri, Oct 15, 2021 | 50 – 150 |
| ■ Sat, Oct 16, 2021 | 55 – 165 |
| 12:59:45 AM CST | 54 |
| 01:55:30 AM CST | 60 |
| 02:55:45 AM CST | 58 |
| 03:45:55 AM CST | 56 |
| 03:46:56 AM CST | 57 |



Matrix: Row Header Format

| | Steps |
|-------------------------|-------|
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| ■ Sat, Oct 16, 2021 | 3,000 |
| 12:05 AM – 12:06 AM CST | 26 |
| 12:28 AM – 12:38 AM CST | 125 |
| 12:42 AM – 12:55 AM CST | 300 |
| 8:42 AM – 8:55 AM CST | 303 |
| 1:00 PM – 1:05 PM CST | 405 |

| Date & Time | Heart Rate |
|-------------------|------------|
| Fri, Oct 15, 2021 | 50 – 150 |
| Sat, Oct 16, 2021 | 55 – 165 |
| 12:59:45 AM CST | 54 |
| 01:55:30 AM CST | 60 |
| 02:55:45 AM CST | 58 |
| 03:45:55 AM CST | 56 |
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| Date | Heart Rate |
|----------------------------|------------|
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| ■ Sat, Oct 15, 2021 | 55 – 165 |
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| 03:45:55 AM CST | 56 |
| 03:46:56 AM CST | 57 |

Note: Ability for selected row to go to the top of the matrix based on settings



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| 03:46:56 AM CST | 57 |

Note: Ability for selected row to go to the top of the matrix based on settings



Interaction: Control Zones

"Sort by" "Sort by" **Expand / Collapse** Zone **Zone All Zone** <u>=</u> **Date & Time Kilocalories (kcal) Expand / Collapse Row Zone** Fri, Oct 15, 2021 3,000 Sat, Oct 16, 2021 3,000 12:05 PM CST 200 Turkey Sandwich with Cheddar Cheese and Lettuce | 1 serving 12:10 PM CST 125 Fruit Smoothie | 8 Fl. Oz. 03:10 PM CST 100 Pretzel Chips | 20 Chips 03:10 PM CST 100 Plain Hummus | 5 Oz.

Selection and Interaction Zone



Fields & Format (1/3)

Fields

- Row(s): Allow Multiple Items (Required)
- Group Rows By: Allow Single Item (Not Required)
- Row Details: Allow Single Item (Not Required)

- Column(s): Allow Multiple Items (Not Required)
- Value(s): Allow Multiple Items (Required)
- Unit(s): Allow Multiple Items (Not Required)

Format Settings (1/3) - Standard

Title (Standard) - Not Shown

- · On / Off Default: Off
 - Title text Default: None
 - Title heading Default: Heading 3
 - Word wrap Default: On
 - Font color Default: #000000
 - Background color Default: None
 - · Alignment Default: Left Justified
 - Text Size Default: 12 pt
 - Bold Default: Off
 - Italic Default: Off
 - · Underline Default: Off
 - Font family Default: Segoe UI Bold

Shadow (Standard) - *Not Shown*

- On / Off Default: Off
 - Color Default: #000000
 - Shadow position Default: Outside (Options: Outside, Inside)
 - Present Default: Bottom right (Options: Bottom right, Bottom, Bottom left, Right, Center, Left, Top right, Top, Top left, Custom)
 - Size Default: 3 px
 - Blur Default: 10 px
 - Angle Default: 45 deg
 - Distance Default: 10 px
 - Transparency Default: 70%

| Date & Time | Kilocalories (kcal) |
|--|---------------------|
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| 12:00 PM – 01:00 PM CST | 325 |
| 12:05 PM CST Turkey Sandwich with Cheddar Cheese and Lettuce 1 serving | 200 |
| 12:10 PM CST Fruit Smoothie 8 Fl. Oz. | 125 |
| + 03:00 PM – 04:00 PM CST | 200 |
| | |

Border (Standard)

- · On / Off Default: Off
 - Color Default: #ffffff
 - Radius Default: 10 px

Background (Standard)

- On / Off Default: Off
 - Color Default: #ffffff
 - Transparency Default: 0%

Note: Order of data in the fields determines order in the Matrix

General (Standard)

- Responsive Default: On
- X Position Default: 0
- Y Position Default: 0
- Width Default: 100 px
- Height Default: 100 px
- Maintain layer order Default: On
- Alt text Default: None

Visual Header (Standard) - Not Shown

- On / Off Default: Off
 - Background color Default: #ffffff
 - Border Default: #ffffff
 - Transparency Default: 0%
 - Icon color #000000
 - · Visual information icon Default: On
 - Visual warning icon Default: On
 - Visual error icon Default: On
 - Drill on dropdown Default: On
 - Drill up icon Default: On
 - Drill down icon Default: On
 - Show next level icon Default: On
 - Expand to next level icon Default: On
 - Pin icon Default: On
 - Focus mode icon Default: On
 - Filter icon Default: On
 - See data layout icon Default: On
 - More options icon Default: On
 - Visual header tooltip icon Default: On
 - Comment button Default: On
 - Personalize visual Default: On
 - Copy icon Default: On



Fields & Format (2/3)

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Format Settings (2/3) - Custom

Row

- Row Levels (Dropdown based on Row Levels)
 - Row Height Default: Auto
 - Row Padding Default: 2 px
 - Fill color Default: None
 - Fill opacity Default: 100%
 - Banded fill Default: Off
 - Banded fill color Default: None
 - Banded fill opacity Default: 100%
 - Outline color Default: #3f464b
 - Outline thickness Default: 2 px
 - · Outline left Default: Off
 - Outline right Default: Off
 - Outline top Default: Off
 - Outline bottom Default: On
 - Outline radius top-left Default: 0 px
 - Outline radius top-right Default: 0 px
 - Outline radius bottom-left Default: 0 px
 - Outline radius bottom-right Default: 0 px
 - · Font family Default: Segoe UI Bold
 - Font size Default: 12 pt
 - Font color Default: #000000
 - Font bold Default: Off
 - · Font italic Default: Off
 - Font underline Default: Off
 - Word wrap Default: On
 - Position Default: Left (Options: Left, Center, Right)
 - Step indentation: Default: 0 px
 - Expand / collapse Default: On
 - Expand / collapse icon Default: chevron (Options: +/-, chevron)
 - Expand / collapse icon color Default: #ffffff
 - Expand / collapse fill color Default #000000
 - Expand / collapse outline color #000000
 - Expand / collapse outline thickness 0 px
 - Expand / collapse outline radius 2 px

| 🛨 Date & Time 🚊 | Kilocalories (kcal) |
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| 12:10 PM CST Fruit Smoothie 8 Fl. Oz. | 125 |
| + 03:00 PM – 04:00 PM CST | 200 |

Row Continue

- Row details Default: Off
- Row details font family Default: Segoe UI Bold
- · Row details font size Default: 12 pt
- Row details font color Default: #000000
- Row details font bold Default: Off
- Row details font italic Default: Off
- Row details font underline Default: Off
- Row details word wrap Default: On
- Row details position Default: Left (Options: Left, Center, Right)
- Row details step indentation: Default: 0 px

Column Header

- Row Height Default: Auto
- Row Padding Default: 2 px
- Column (Dropdown based on Column Headers)
 - Column width Default: Auto
 - Fill color Default: None
 - Fill opacity Default: 100%
 - Outline color Default: #3f464b
 - Outline thickness Default: 2 px
 - Outline left Default: Off
 - Outline right Default: Off
 - Outline top Default: Off
 - Outline bottom Default: On
 - Outline radius top-left Default: 0 px
 - Outline radius top-right Default: 0 px
 - Outline radius bottom-left Default: 0 px
 - Outline radius bottom-right Default: 0 px
 - · Font family Default: Segoe UI Bold
 - Font size Default: 12 pt
 - Font color Default: #000000
 - Font bold Default: Off
 - Font italic Default: Off
 - Font underline Default: Off
 - Word wrap Default: On
 - Position Default: Left (Options: Left, Center, Right)
 - Step indentation: Default: 0 px
 - · Sort icon Default: On
 - Sort icon color Default: #000000
 - Sort icon position Default: Right justified (Options: Next to text, Right justified)



Format Settings (3/3) - Custom

Values

- Column groups before value Default: On
- Row Levels (Dropdown based on Row Levels)
 - Value aggregation Default: Field Selection (Options: Field Selection, Range)
 - Fill color Default: None
 - Fill opacity Default: 100%
 - · Banded fill Default: Off
 - · Banded fill color Default: None
 - Banded fill opacity Default: 100%
 - Outline color Default: #3f464b
 - Outline thickness Default: 2 px
 - · Outline left Default: Off
 - · Outline right Default: Off
 - Outline top Default: Off
 - Outline bottom Default: On
 - Outline radius top-left Default: 0 px
 - Outline radius top-right Default: 0 px
 - Outline radius bottom-left Default: 0 px
 - Outline radius bottom-right Default: 0 px
 - Font family Default: Segoe UI Bold
 - Font size Default: 12 pt
 - Font color Default: #000000
 - Font bold Default: Off
 - Font italic Default: Off
 - Font underline Default: Off
 - Word wrap Default: On
 - Position Default: Left (Options: Left, Center, Right)
 - Selection interaction Default: On
 - Selection type Default: Highlight and Move to Top (Options: Highlight and Move to Top, Highlight Only, Move to Top Only)
 - Selected fill color Default: None
 - Selected fill opacity Default: 100%
 - Selected outline Default: On
 - Selected outline color Default: #8c9093
 - Selected outline thickness Default: 2 px
 - Selected outline radius Default: 2 px

Expand / Collapse All

- · On / Off Default: Off
 - Expand / collapse icon Default: chevron (Options: +/-, chevron)
 - Expand / collapse icon color Default: #ffffff
 - Expand / collapse fill color Default #000000
 - Expand / collapse outline color #000000
 - Expand / collapse outline thickness 0 px
 - Expand / collapse outline radius 2 px

| Date & Time | Kilocalories (kcal) |
|--|---------------------|
| Fri, Oct 15, 2021 | 3,000 |
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| 12:00 PM – 01:00 PM CST | 325 |
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| 12:10 PM CST Fruit Smoothie 8 Fl. Oz. | 125 |
| + 03:00 PM – 04:00 PM CST | 200 |

Units (Not Shown)

- On / Off Default: On
 - Spacer Default: On
 - Combination Units Default: None (Options: feet & inches, hour & minutes, hour & minutes & seconds)
 - Font family Default: Segoe UI Bold
 - Font size Default: 18 pt
 - Font color Default: #ffffff
 - Font bold Default: Off
 - · Font italic Default: Off
 - Font underline Default: Off

Merge Column(s)

- On / Off Default: Off
 - First Value (Dropdown based on Value Field)
 - Second Value Default: None (Options: Other Values)
 - Third Value Default: None (Options: Other Values)
 - Merge / Aggregation Order Default: Merge First (Options: Merge First, Aggregate First)
 - Delimiter Default: On
 - Delimiter Default: \ (Options: Text Input)

