

# Excel Class-4

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Agenda:

- Developing a dashboard in Excel
- Introduction to slicer
- Recording a Macro

Dataset used for the class:

Raw Data:  [Fitbit Raw Data.xlsx](#)

Solution:  [Fitbit Raw Data Live class solution.xlsx](#)

Business Problem: Create a dashboard by analyzing the fitbit raw data and provide insights on activities across various parts of the day

## Steps to develop Dashboard:

- Data Preparation
- Chart Creation
- Dashboard Creation

## Filter Vs Slicer in Pivot Table:

In a pivot table, both filters and slicers are used to narrow down the data that is displayed in the pivot table, but they work in slightly different ways:

1. Filter: A filter in a pivot table is used to exclude data from the pivot table. Filters are set up by selecting a column and specifying the criteria that must be met for the data in that column to be displayed in the pivot table. For example, you might create a filter to display only sales data for a particular region or for a certain time period.
2. Slicer: A slicer in a pivot table is similar to a filter in that it is used to narrow down the data that is displayed in the pivot table. **However, a slicer is a visual tool that allows you to quickly filter data by clicking on an interactive element, such as a dropdown menu or a button.** Slicers are typically placed next to the pivot table, and they are often used to filter data by category, such as by product, by customer, or by region.

In summary, filters are used to exclude data based on specific criteria, whereas slicers provide an interactive way to quickly filter data by category.

## Detailed Notes for Dashboard Development:

1. Data Preparation: Create 4 columns:
  - **Distance Miles:** Convert the “Distance Meters” to “Distance Miles” using formula: **CONVERT(C2,"m","mi")** and dragging the formula to entire column

Fitbit Raw Data - Excel

Eshan Tiwari ET

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Font Alignment Number Styles Cells Editing

SUM : fx =CONVERT(C2,"m","mi")

|    | A         | B        | C               | D        | E            | F              | G                     | H | I | J | K | L | M | N | O | P | Q |
|----|-----------|----------|-----------------|----------|--------------|----------------|-----------------------|---|---|---|---|---|---|---|---|---|---|
| 1  | Date/Time | Time     | Distance Meters | Duration | Elevation Cm | City           | Distance Miles        |   |   |   |   |   |   |   |   |   |   |
| 2  | 5/17/2017 | 6:44 AM  | 3030            | 0:20:38  | 1238         | Banjar Pasekan | =CONVERT(C2,"m","mi") |   |   |   |   |   |   |   |   |   |   |
| 3  | 9/14/2017 | 7:40 PM  | 4031            | 0:27:55  | 1675         | New Orleans    |                       |   |   |   |   |   |   |   |   |   |   |
| 4  | 9/18/2017 | 8:59 PM  | 3067            | 0:22:21  | 1341         | New Orleans    |                       |   |   |   |   |   |   |   |   |   |   |
| 5  | 9/21/2017 | 4:03 PM  | 4318            | 0:27:13  | 1633         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 6  | 4/21/2018 | 10:28 AM | 4005            | 0:26:50  | 1610         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 7  | 4/23/2018 | 7:12 PM  | 5028            | 0:33:33  | 2013         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 8  | 4/28/2018 | 8:52 PM  | 4018            | 0:26:55  | 1615         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 9  | 4/30/2018 | 8:23 PM  | 5072            | 0:34:09  | 2049         | Amsterdam      |                       |   |   |   |   |   |   |   |   |   |   |
| 10 | 5/2/2018  | 9:01 PM  | 5012            | 0:32:40  | 1960         | Amsterdam      |                       |   |   |   |   |   |   |   |   |   |   |
| 11 | 5/7/2018  | 7:25 AM  | 4046            | 0:25:24  | 1524         | Amsterdam      |                       |   |   |   |   |   |   |   |   |   |   |
| 12 | 5/10/2018 | 6:50 PM  | 5037            | 0:32:32  | 1952         | Amsterdam      |                       |   |   |   |   |   |   |   |   |   |   |
| 13 | 5/13/2018 | 7:14 PM  | 6042            | 0:39:17  | 2357         | New York       |                       |   |   |   |   |   |   |   |   |   |   |
| 14 | 5/15/2018 | 8:03 PM  | 5089            | 0:33:08  | 1988         | New York       |                       |   |   |   |   |   |   |   |   |   |   |
| 15 | 5/17/2018 | 6:50 AM  | 4027            | 0:25:27  | 1527         | New York       |                       |   |   |   |   |   |   |   |   |   |   |
| 16 | 5/19/2018 | 6:25 PM  | 5022            | 0:31:51  | 1911         | New York       |                       |   |   |   |   |   |   |   |   |   |   |
| 17 | 5/21/2018 | 7:54 PM  | 6026            | 0:38:14  | 2294         | Lesnoy         |                       |   |   |   |   |   |   |   |   |   |   |
| 18 | 5/23/2018 | 8:13 AM  | 4061            | 0:26:06  | 1566         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 19 | 5/26/2018 | 6:52 PM  | 4897            | 0:32:22  | 1942         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 20 | 5/28/2018 | 5:51 PM  | 5842            | 0:39:10  | 2350         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 21 | 5/31/2018 | 7:37 AM  | 4723            | 0:28:23  | 1703         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
| 22 | 6/2/2018  | 5:38 PM  | 4012            | 0:25:02  | 1502         | Melbourne      |                       |   |   |   |   |   |   |   |   |   |   |
|    |           |          | 6015            | 0:26:06  | 2306         | San Fr         |                       |   |   |   |   |   |   |   |   |   |   |

Raw Data

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Fitbit Raw Data - Excel

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Font Alignment Number Styles Cells Editing

G1 Distance Miles

|    | A         | B        | C               | D        | E            | F              | G              | H | I | J | K | L | M | N | O | P | Q |
|----|-----------|----------|-----------------|----------|--------------|----------------|----------------|---|---|---|---|---|---|---|---|---|---|
| 1  | Date/Time | Time     | Distance Meters | Duration | Elevation Cm | City           | Distance Miles |   |   |   |   |   |   |   |   |   |   |
| 2  | 5/17/2017 | 6:44 AM  | 3030            | 0:20:38  | 1238         | Banjar Pasekan | 1.882630438    |   |   |   |   |   |   |   |   |   |   |
| 3  | 9/14/2017 | 7:40 PM  | 4031            | 0:27:55  | 1675         | New Orleans    | 2.504685139    |   |   |   |   |   |   |   |   |   |   |
| 4  | 9/18/2017 | 8:59 PM  | 3067            | 0:22:21  | 1341         | New Orleans    | 1.905807584    |   |   |   |   |   |   |   |   |   |   |
| 5  | 9/21/2017 | 4:03 PM  | 4318            | 0:27:13  | 1633         | Melbourne      | 2.682956534    |   |   |   |   |   |   |   |   |   |   |
| 6  | 4/21/2018 | 10:28 AM | 4005            | 0:26:50  | 1610         | Melbourne      | 2.488280939    |   |   |   |   |   |   |   |   |   |   |
| 7  | 4/23/2018 | 7:12 PM  | 5028            | 0:33:33  | 2013         | Melbourne      | 3.12413008     |   |   |   |   |   |   |   |   |   |   |
| 8  | 4/28/2018 | 8:52 PM  | 4018            | 0:26:55  | 1615         | Melbourne      | 2.496855862    |   |   |   |   |   |   |   |   |   |   |
| 9  | 4/30/2018 | 8:23 PM  | 5072            | 0:34:09  | 2049         | Amsterdam      | 3.1515325      |   |   |   |   |   |   |   |   |   |   |
| 10 | 5/2/2018  | 9:01 PM  | 5012            | 0:32:40  | 1960         | Amsterdam      | 3.114126004    |   |   |   |   |   |   |   |   |   |   |
| 11 | 5/7/2018  | 7:25 AM  | 4046            | 0:25:24  | 1524         | Amsterdam      | 2.514005707    |   |   |   |   |   |   |   |   |   |   |
| 12 | 5/10/2018 | 6:50 PM  | 5037            | 0:32:32  | 1952         | Amsterdam      | 3.12953601     |   |   |   |   |   |   |   |   |   |   |
| 13 | 5/13/2018 | 7:14 PM  | 6042            | 0:39:17  | 2357         | New York       | 3.754511155    |   |   |   |   |   |   |   |   |   |   |
| 14 | 5/15/2018 | 8:03 PM  | 5089            | 0:33:08  | 1988         | New York       | 3.162282272    |   |   |   |   |   |   |   |   |   |   |
| 15 | 5/17/2018 | 6:50 AM  | 4027            | 0:25:27  | 1527         | New York       | 2.50251034     |   |   |   |   |   |   |   |   |   |   |
| 16 | 5/19/2018 | 6:25 PM  | 5022            | 0:31:51  | 1911         | New York       | 3.120215442    |   |   |   |   |   |   |   |   |   |   |
| 17 | 5/21/2018 | 7:54 PM  | 6026            | 0:38:14  | 2294         | Lesnoy         | 3.744507079    |   |   |   |   |   |   |   |   |   |   |
| 18 | 5/23/2018 | 8:13 AM  | 4061            | 0:26:06  | 1566         | Melbourne      | 2.523512686    |   |   |   |   |   |   |   |   |   |   |
| 19 | 5/26/2018 | 6:52 PM  | 4897            | 0:32:22  | 1942         | Melbourne      | 3.043103277    |   |   |   |   |   |   |   |   |   |   |
| 20 | 5/28/2018 | 5:51 PM  | 5842            | 0:39:10  | 2350         | Melbourne      | 3.629926231    |   |   |   |   |   |   |   |   |   |   |
| 21 | 5/31/2018 | 7:37 AM  | 4723            | 0:28:23  | 1703         | Melbourne      | 2.934860415    |   |   |   |   |   |   |   |   |   |   |
| 22 | 6/2/2018  | 5:38 PM  | 4012            | 0:25:02  | 1502         | Melbourne      | 2.492816949    |   |   |   |   |   |   |   |   |   |   |
|    |           |          | 6015            | 0:26:06  | 2306         | San Fr         | 3.272662621    |   |   |   |   |   |   |   |   |   |   |

Raw Data

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- **Elevation Feet:** Convert the “Elevation Cm” to “Elevation Feet” using formula: **CONVERT(E2,"cm","ft")** and dragging the formula to entire column

Fitbit Raw Data - Excel

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Font Alignment Number Styles Cells

SUM : fx =CONVERT(E2,"cm","ft")

|    | A         | B        | C               | D        | E            | F             | G              | H                      | I | J | K | L | M | N | O | P | Q |
|----|-----------|----------|-----------------|----------|--------------|---------------|----------------|------------------------|---|---|---|---|---|---|---|---|---|
| 1  | Date/Time | Time     | Distance Meters | Duration | Elevation Cm | City          | Distance Miles | Elevation Feet         |   |   |   |   |   |   |   |   |   |
| 2  | 5/17/2017 | 6:44 AM  | 3030            | 0:20:38  | 1238         | Baran Pasekan | 1.882630438    | =CONVERT(E2,"cm","ft") |   |   |   |   |   |   |   |   |   |
| 3  | 9/14/2017 | 7:40 PM  | 4031            | 0:27:55  | 1675         | New Orleans   | 2.504685139    |                        |   |   |   |   |   |   |   |   |   |
| 4  | 9/18/2017 | 8:59 PM  | 3067            | 0:22:21  | 1341         | New Orleans   | 1.905807584    |                        |   |   |   |   |   |   |   |   |   |
| 5  | 9/21/2017 | 4:03 PM  | 4318            | 0:27:13  | 1633         | Melbourne     | 2.682956534    |                        |   |   |   |   |   |   |   |   |   |
| 6  | 4/21/2018 | 10:28 AM | 4005            | 0:26:50  | 1610         | Melbourne     | 2.488280939    |                        |   |   |   |   |   |   |   |   |   |
| 7  | 4/23/2018 | 7:12 PM  | 5028            | 0:33:33  | 2013         | Melbourne     | 3.12413008     |                        |   |   |   |   |   |   |   |   |   |
| 8  | 4/28/2018 | 8:52 PM  | 4018            | 0:26:55  | 1615         | Melbourne     | 2.496855862    |                        |   |   |   |   |   |   |   |   |   |
| 9  | 4/30/2018 | 8:23 PM  | 5072            | 0:34:09  | 2049         | Amsterdam     | 3.15153255     |                        |   |   |   |   |   |   |   |   |   |
| 10 | 5/2/2018  | 9:01 PM  | 5012            | 0:32:40  | 1960         | Amsterdam     | 3.114126004    |                        |   |   |   |   |   |   |   |   |   |
| 11 | 5/7/2018  | 7:25 AM  | 4046            | 0:25:24  | 1524         | Amsterdam     | 2.514005707    |                        |   |   |   |   |   |   |   |   |   |
| 12 | 5/10/2018 | 6:50 PM  | 5037            | 0:32:32  | 1952         | Amsterdam     | 3.12953601     |                        |   |   |   |   |   |   |   |   |   |
| 13 | 5/13/2018 | 7:14 PM  | 6042            | 0:39:17  | 2357         | New York      | 3.754511155    |                        |   |   |   |   |   |   |   |   |   |
| 14 | 5/15/2018 | 8:03 PM  | 5089            | 0:33:08  | 1988         | New York      | 3.162282272    |                        |   |   |   |   |   |   |   |   |   |
| 15 | 5/17/2018 | 6:50 AM  | 4027            | 0:25:27  | 1527         | New York      | 2.50251034     |                        |   |   |   |   |   |   |   |   |   |
| 16 | 5/19/2018 | 6:25 PM  | 5022            | 0:31:51  | 1911         | New York      | 3.120215442    |                        |   |   |   |   |   |   |   |   |   |
| 17 | 5/21/2018 | 7:54 PM  | 6026            | 0:38:14  | 2294         | Lesnoy        | 3.744507079    |                        |   |   |   |   |   |   |   |   |   |
| 18 | 5/23/2018 | 8:13 AM  | 4061            | 0:26:06  | 1566         | Melbourne     | 2.523512686    |                        |   |   |   |   |   |   |   |   |   |
| 19 | 5/26/2018 | 6:52 PM  | 4897            | 0:32:22  | 1942         | Melbourne     | 3.043103277    |                        |   |   |   |   |   |   |   |   |   |
| 20 | 5/28/2018 | 5:51 PM  | 5842            | 0:39:10  | 2350         | Melbourne     | 3.629926231    |                        |   |   |   |   |   |   |   |   |   |
| 21 | 5/31/2018 | 7:37 AM  | 4723            | 0:28:23  | 1703         | Melbourne     | 2.934860415    |                        |   |   |   |   |   |   |   |   |   |
| 22 | 6/2/2018  | 5:38 PM  | 4012            | 0:25:02  | 1502         | Melbourne     | 2.492816949    |                        |   |   |   |   |   |   |   |   |   |
|    |           |          |                 |          |              |               |                |                        |   |   |   |   |   |   |   |   |   |

Raw Data

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Font Alignment Number Styles Cells

SUM : fx =CONVERT(E2,"cm","ft")

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Font Alignment Number Styles Cells

H89 : fx =CONVERT(E89,"cm","ft")

|    | A         | B        | C               | D        | E            | F             | G              | H              | I | J | K | L | M | N | O | P | Q |
|----|-----------|----------|-----------------|----------|--------------|---------------|----------------|----------------|---|---|---|---|---|---|---|---|---|
| 1  | Date/Time | Time     | Distance Meters | Duration | Elevation Cm | City          | Distance Miles | Elevation Feet |   |   |   |   |   |   |   |   |   |
| 2  | 5/17/2017 | 6:44 AM  | 3030            | 0:20:38  | 1238         | Baran Pasekan | 1.882630438    | 40.6168        |   |   |   |   |   |   |   |   |   |
| 3  | 9/14/2017 | 7:40 PM  | 4031            | 0:27:55  | 1675         | New Orleans   | 2.504685139    | 54.95407       |   |   |   |   |   |   |   |   |   |
| 4  | 9/18/2017 | 8:59 PM  | 3067            | 0:22:21  | 1341         | New Orleans   | 1.905807584    | 43.99606       |   |   |   |   |   |   |   |   |   |
| 5  | 9/21/2017 | 4:03 PM  | 4318            | 0:27:13  | 1633         | Melbourne     | 2.682956534    | 53.57612       |   |   |   |   |   |   |   |   |   |
| 6  | 4/21/2018 | 10:28 AM | 4005            | 0:26:50  | 1610         | Melbourne     | 2.488280939    | 52.82152       |   |   |   |   |   |   |   |   |   |
| 7  | 4/23/2018 | 7:12 PM  | 5028            | 0:33:33  | 2013         | Melbourne     | 3.12413008     | 66.04331       |   |   |   |   |   |   |   |   |   |
| 8  | 4/28/2018 | 8:52 PM  | 4018            | 0:26:55  | 1615         | Melbourne     | 2.496855862    | 52.98556       |   |   |   |   |   |   |   |   |   |
| 9  | 4/30/2018 | 8:23 PM  | 5072            | 0:34:09  | 2049         | Amsterdam     | 3.15153255     | 67.22441       |   |   |   |   |   |   |   |   |   |
| 10 | 5/2/2018  | 9:01 PM  | 5012            | 0:32:40  | 1960         | Amsterdam     | 3.114126004    | 64.30446       |   |   |   |   |   |   |   |   |   |
| 11 | 5/7/2018  | 7:25 AM  | 4046            | 0:25:24  | 1524         | Amsterdam     | 2.514005707    | 50             |   |   |   |   |   |   |   |   |   |
| 12 | 5/10/2018 | 6:50 PM  | 5037            | 0:32:32  | 1952         | Amsterdam     | 3.12953601     | 64.04199       |   |   |   |   |   |   |   |   |   |
| 13 | 5/13/2018 | 7:14 PM  | 6042            | 0:39:17  | 2357         | New York      | 3.754511155    | 77.3294        |   |   |   |   |   |   |   |   |   |
| 14 | 5/15/2018 | 8:03 PM  | 5089            | 0:33:08  | 1988         | New York      | 3.162282272    | 65.2231        |   |   |   |   |   |   |   |   |   |
| 15 | 5/17/2018 | 6:50 AM  | 4027            | 0:25:27  | 1527         | New York      | 2.50251034     | 50.09843       |   |   |   |   |   |   |   |   |   |
| 16 | 5/19/2018 | 6:25 PM  | 5022            | 0:31:51  | 1911         | New York      | 3.120215442    | 62.69685       |   |   |   |   |   |   |   |   |   |
| 17 | 5/21/2018 | 7:54 PM  | 6026            | 0:38:14  | 2294         | Lesnoy        | 3.744507079    | 75.26247       |   |   |   |   |   |   |   |   |   |
| 18 | 5/23/2018 | 8:13 AM  | 4061            | 0:26:06  | 1566         | Melbourne     | 2.523512686    | 51.37795       |   |   |   |   |   |   |   |   |   |
| 19 | 5/26/2018 | 6:52 PM  | 4897            | 0:32:22  | 1942         | Melbourne     | 3.043103277    | 63.71391       |   |   |   |   |   |   |   |   |   |
| 20 | 5/28/2018 | 5:51 PM  | 5842            | 0:39:10  | 2350         | Melbourne     | 3.629926231    | 77.09974       |   |   |   |   |   |   |   |   |   |
| 21 | 5/31/2018 | 7:37 AM  | 4723            | 0:28:23  | 1703         | Melbourne     | 2.934860415    | 55.8727        |   |   |   |   |   |   |   |   |   |
| 22 | 6/2/2018  | 5:38 PM  | 4012            | 0:25:02  | 1502         | Melbourne     | 2.492816949    | 49.27822       |   |   |   |   |   |   |   |   |   |
|    |           |          |                 |          |              |               |                |                |   |   |   |   |   |   |   |   |   |

Raw Data

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Average: 74.7472262 Count: 88 Sum: 6577.755906

100% 1:06 AM 3/11/2023

- **Pace(Mins Per Mile):** Create the new column by using formula  $D2/G2$  and dragging the formula to entire column

Fitbit Raw Data - Excel

Eshan Tiwari

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Clipboard Font Alignment Number Conditional Formatting Styles Cells Editing

189    =D89/G89

A B C D E F G H I J K L M N O P Q

|    | Date/Time | Time     | Distance | Meters | Duration | Elevation | Cm | City             | Distance    | Miles    | Elevation | Pace (Mins per Mile) |
|----|-----------|----------|----------|--------|----------|-----------|----|------------------|-------------|----------|-----------|----------------------|
| 2  | 5/17/2017 | 6:44 AM  |          | 3030   | 0:20:38  |           |    | Banjar Pasekan   | 1.882630438 | 40.61686 | 0:10:58   |                      |
| 3  | 9/14/2017 | 7:40 PM  |          | 4031   | 0:27:55  |           |    | New Orleans      | 2.504685139 | 54.95407 | 0:11:09   |                      |
| 4  | 9/18/2017 | 8:59 PM  |          | 3067   | 0:22:21  |           |    | 1341 New Orleans | 1.905807584 | 43.99606 | 0:11:44   |                      |
| 5  | 9/21/2017 | 4:03 PM  |          | 4318   | 0:27:13  |           |    | 1633 Melbourne   | 2.682956534 | 53.57612 | 0:10:09   |                      |
| 6  | 4/21/2018 | 10:28 AM |          | 4005   | 0:26:50  |           |    | 1610 Melbourne   | 2.488280939 | 52.82152 | 0:10:47   |                      |
| 7  | 4/23/2018 | 7:12 PM  |          | 5028   | 0:33:33  |           |    | 2013 Melbourne   | 3.12413008  | 66.04331 | 0:10:44   |                      |
| 8  | 4/28/2018 | 8:52 PM  |          | 4018   | 0:26:55  |           |    | 1615 Melbourne   | 2.496855862 | 52.98556 | 0:10:47   |                      |
| 9  | 4/30/2018 | 8:23 PM  |          | 5072   | 0:34:09  |           |    | 2049 Amsterdam   | 3.15153255  | 67.22441 | 0:10:50   |                      |
| 10 | 5/2/2018  | 9:01 PM  |          | 5012   | 0:32:40  |           |    | 1960 Amsterdam   | 3.114126004 | 64.30446 | 0:10:29   |                      |
| 11 | 5/7/2018  | 7:25 AM  |          | 4046   | 0:25:24  |           |    | 1524 Amsterdam   | 2.514005707 | 50       | 0:10:06   |                      |
| 12 | 5/10/2018 | 6:50 PM  |          | 5037   | 0:32:32  |           |    | 1952 Amsterdam   | 3.12953601  | 64.04199 | 0:10:24   |                      |
| 13 | 5/13/2018 | 7:14 PM  |          | 6042   | 0:39:17  |           |    | 2357 New York    | 3.754511155 | 77.32924 | 0:10:28   |                      |
| 14 | 5/15/2018 | 8:03 PM  |          | 5089   | 0:33:08  |           |    | 1988 New York    | 3.162282272 | 65.2231  | 0:10:29   |                      |
| 15 | 5/17/2018 | 6:50 AM  |          | 4027   | 0:25:27  |           |    | 1527 New York    | 2.50251034  | 50.09843 | 0:10:10   |                      |
| 16 | 5/19/2018 | 6:25 PM  |          | 5022   | 0:31:51  |           |    | 1911 New York    | 3.120215442 | 62.69685 | 0:10:12   |                      |
| 17 | 5/21/2018 | 7:54 PM  |          | 6026   | 0:38:14  |           |    | 2294 Lesnoy      | 3.744507079 | 75.26247 | 0:10:13   |                      |
| 18 | 5/23/2018 | 8:13 AM  |          | 4061   | 0:26:06  |           |    | 1566 Melbourne   | 2.523512686 | 51.37795 | 0:10:21   |                      |
| 19 | 5/26/2018 | 6:52 PM  |          | 4897   | 0:32:22  |           |    | 1942 Melbourne   | 3.043103277 | 63.71391 | 0:10:38   |                      |
| 20 | 5/28/2018 | 5:51 PM  |          | 5842   | 0:39:10  |           |    | 2350 Melbourne   | 3.629926231 | 77.09974 | 0:10:47   |                      |
| 21 | 5/31/2018 | 7:37 AM  |          | 4723   | 0:28:23  |           |    | 1703 Melbourne   | 2.934860415 | 55.87277 | 0:09:40   |                      |
| 22 | 6/2/2018  | 5:38 PM  |          | 4012   | 0:25:02  |           |    | 1502 Melbourne   | 2.492816949 | 49.27822 | 0:10:03   |                      |
|    |           |          |          | 6015   | 0:26:06  |           |    | 2036 Osaka       | 3.07302643  | 74.74045 |           |                      |

Raw Data

Select destination and press ENTER or choose Paste

Average: 0:09:46 Count: 88 Sum: 14:20:11

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Conditional Formatting Styles Cells Editing

10:08 AM 3/11/2023

- Type (M/A/E/N): Create a column to identify if an activity is performed in morning, afternoon, evening, night.
    - Morning(M): 12 AM(midnight) - 12 Noon (Excluding)

- Afternoon(A): 12 PM - 6 PM (Excluding)
  - Evening(E): 6 PM - 9 PM (Excluding)
  - Night (N): 9 PM - 12 AM (midnight) (Excluding)
  - Use the following formula to calculate the **Type column**:  
**IF(J2<12,"M",IF(J2>18,"E","A"))** and drag the formula across the column

Fitbit Raw Data - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

J2 =IF(HOUR(B2)<12,"M",IF(HOUR(B2)<18,"A",IF(HOUR(B2)<21,"E","N")))

|    | A         | B        | C               | D        | E            | F              | G              | H         | I         | J                      | K | L | M | N | O | P | Q |
|----|-----------|----------|-----------------|----------|--------------|----------------|----------------|-----------|-----------|------------------------|---|---|---|---|---|---|---|
| 1  | Date/Time | Time     | Distance Meters | Duration | Elevation Cm | City           | Distance Miles | Elevation | Pace (Min | Activity Type(M/A/E/N) |   |   |   |   |   |   |   |
| 2  | 5/17/2017 | 6:44 AM  | 3030            | 0:20:38  | 1238         | Banjar Pasekan | 1.882630438    | 40.6168   | 0:10:58   | M                      |   |   |   |   |   |   |   |
| 3  | 9/14/2017 | 7:40 PM  | 4031            | 0:27:55  | 1675         | New Orleans    | 2.504685139    | 54.95407  | 0:11:09   | E                      |   |   |   |   |   |   |   |
| 4  | 9/18/2017 | 8:59 PM  | 3067            | 0:22:21  | 1341         | New Orleans    | 1.905807584    | 43.99606  | 0:11:44   | E                      |   |   |   |   |   |   |   |
| 5  | 9/21/2017 | 4:03 PM  | 4318            | 0:27:13  | 1633         | Melbourne      | 2.682956534    | 53.57612  | 0:10:09   | A                      |   |   |   |   |   |   |   |
| 6  | 4/21/2018 | 10:28 AM | 4005            | 0:26:50  | 1610         | Melbourne      | 2.488280939    | 52.82152  | 0:10:47   | M                      |   |   |   |   |   |   |   |
| 7  | 4/23/2018 | 7:12 PM  | 5028            | 0:33:33  | 2013         | Melbourne      | 3.12413008     | 66.04331  | 0:10:44   | E                      |   |   |   |   |   |   |   |
| 8  | 4/28/2018 | 8:52 PM  | 4018            | 0:26:55  | 1615         | Melbourne      | 2.496855862    | 52.98556  | 0:10:47   | E                      |   |   |   |   |   |   |   |
| 9  | 4/30/2018 | 8:23 PM  | 5072            | 0:34:09  | 2049         | Amsterdam      | 3.15153255     | 67.22441  | 0:10:50   | E                      |   |   |   |   |   |   |   |
| 10 | 5/2/2018  | 9:01 PM  | 5012            | 0:32:40  | 1960         | Amsterdam      | 3.114126004    | 64.30446  | 0:10:29   | N                      |   |   |   |   |   |   |   |
| 11 | 5/7/2018  | 7:25 AM  | 4046            | 0:25:24  | 1524         | Amsterdam      | 2.514005707    | 50        | 0:10:06   | M                      |   |   |   |   |   |   |   |
| 12 | 5/10/2018 | 6:50 PM  | 5037            | 0:32:32  | 1952         | Amsterdam      | 3.12953601     | 64.04199  | 0:10:24   | E                      |   |   |   |   |   |   |   |
| 13 | 5/13/2018 | 7:14 PM  | 6042            | 0:39:17  | 2357         | New York       | 3.754511155    | 77.3294   | 0:10:28   | E                      |   |   |   |   |   |   |   |
| 14 | 5/15/2018 | 8:03 PM  | 5089            | 0:33:08  | 1988         | New York       | 3.162282272    | 65.2231   | 0:10:29   | E                      |   |   |   |   |   |   |   |
| 15 | 5/17/2018 | 6:50 AM  | 4027            | 0:25:27  | 1527         | New York       | 2.50251034     | 50.09843  | 0:10:10   | E                      |   |   |   |   |   |   |   |
| 16 | 5/19/2018 | 6:25 PM  | 5022            | 0:31:51  | 1911         | New York       | 3.120215442    | 62.69685  | 0:10:12   | E                      |   |   |   |   |   |   |   |
| 17 | 5/21/2018 | 7:54 PM  | 6026            | 0:38:14  | 2294         | Lesnoy         | 3.744507079    | 75.26247  | 0:10:13   | E                      |   |   |   |   |   |   |   |
| 18 | 5/23/2018 | 8:13 AM  | 4061            | 0:26:06  | 1566         | Melbourne      | 2.523512686    | 51.37795  | 0:10:21   | M                      |   |   |   |   |   |   |   |
| 19 | 5/26/2018 | 6:52 PM  | 4897            | 0:32:22  | 1942         | Melbourne      | 3.043103277    | 63.71391  | 0:10:38   | E                      |   |   |   |   |   |   |   |
| 20 | 5/28/2018 | 5:51 PM  | 5842            | 0:39:10  | 2350         | Melbourne      | 3.629926231    | 77.09974  | 0:10:47   | A                      |   |   |   |   |   |   |   |
| 21 | 5/31/2018 | 7:37 AM  | 4723            | 0:28:23  | 1703         | Melbourne      | 2.934860415    | 55.8727   | 0:09:40   | M                      |   |   |   |   |   |   |   |
| 22 | 6/2/2018  | 5:38 PM  | 4012            | 0:25:02  | 1502         | Melbourne      | 2.492816949    | 49.27822  | 0:10:03   | A                      |   |   |   |   |   |   |   |
|    |           |          | 6015            | 0:26:06  | 2306         | San Fr         | 3.27356121     | 74.74046  | 0:09:45   |                        |   |   |   |   |   |   |   |

Raw Data

Accessibility: Good to go

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

J1 Activity Type(M/A/E/N)

Fitbit Raw Data - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

J1 Activity Type(M/A/E/N)

Raw Data

Accessibility: Good to go

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

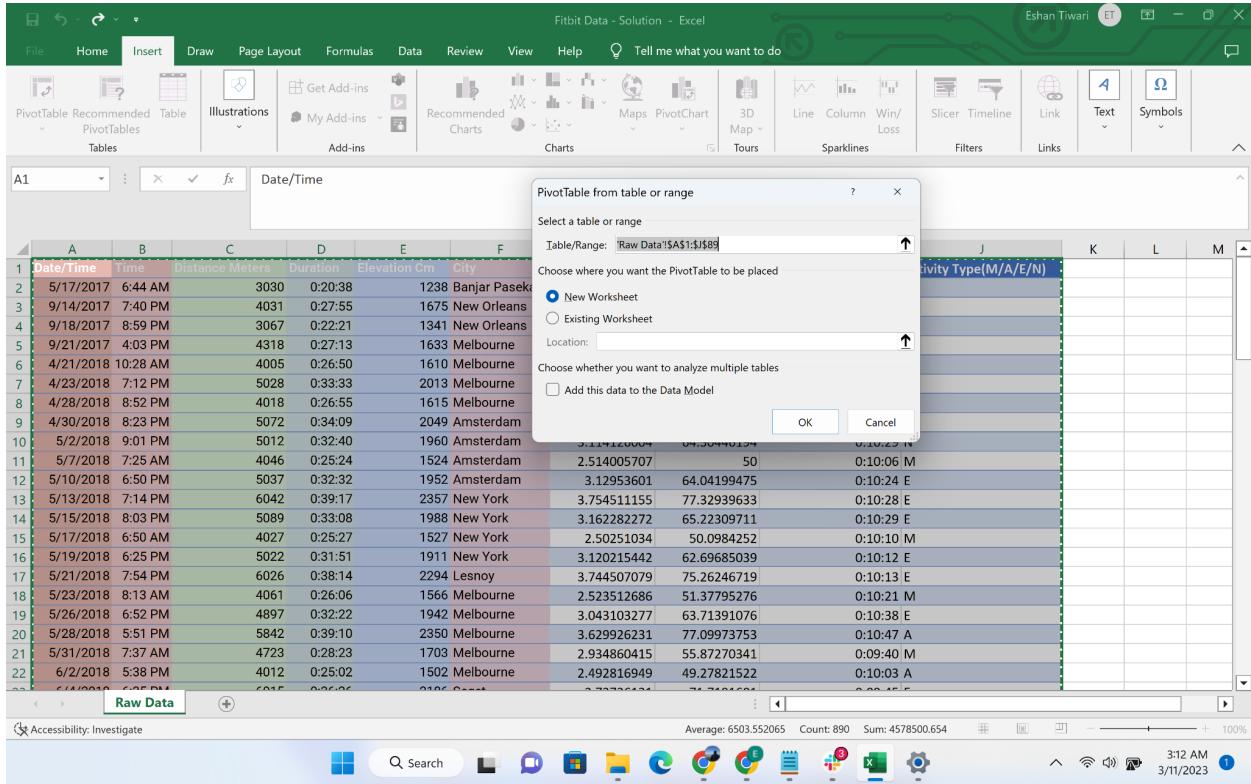
J1 Activity Type(M/A/E/N)

Raw Data

Accessibility: Good to go

## 2. Chart Creation

- Create pivot table for entire dataset in a new worksheet



The screenshot shows a Microsoft Excel spreadsheet titled "Fitbit Data - Solution - Excel". The ribbon menu is visible with "Insert" selected. A "PivotTable from table or range" dialog box is open, centered over a table of raw data. The table has columns: Date/Time, Time, Distance Miles, Duration, Elevation Feet, and City. The dialog box shows the "Table/Range" as "Raw Data!\$A\$1:\$J\$89". The "New Worksheet" radio button is selected. The "OK" button is highlighted. The status bar at the bottom shows "Average: 6503.552065 Count: 890 Sum: 4578500.654".

- Create a summary table for each Type including following columns:
  - Number of cities
  - Total distance
  - Avg pace
  - Average elevation Feet

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

D4 0.00672874579124579

|   | A           | B             | C                     | D                               | E                         | F | G | H |
|---|-------------|---------------|-----------------------|---------------------------------|---------------------------|---|---|---|
| 1 |             |               |                       |                                 |                           |   |   |   |
| 2 |             |               |                       |                                 |                           |   |   |   |
| 3 | Row Labels  | Count of City | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average of Elevation Feet |   |   |   |
| 4 | A           | 11            | 49.48941929           | 0.006728746                     | 84.95585779               |   |   |   |
| 5 | E           | 38            | 151.1612185           | 0.006833882                     | 75.60695538               |   |   |   |
| 6 | M           | 36            | 131.2417979           | 0.006773084                     | 69.23392388               |   |   |   |
| 7 | N           | 3             | 15.17096407           | 0.006604938                     | 92.58530184               |   |   |   |
| 8 | Grand Total | 88            | 347.0633997           | 0.006788063                     | 74.7472262                |   |   |   |

PivotTable Fields

Choose fields to add to report:

Search

Pace (Mins per Mile)  
 Activity Type(M/A/E/N)  
 Quarters  
 Years  
More Tables...

Drag fields between areas below:

Filters Columns  
Values

Rows Values  
Activity Type(M/A/E/N)  
Count of City

Defer Layout Update

Update 3:16 AM 3/11/2023

Sheet13 Raw Data

Average: 0.006735162 Count: 4 Sum: 0.026940649

- Change the data types for average pace

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Clipboard Font Alignment Number Styles Cells

D4 0.00672874579124579

|   | A           | B             | C                     | D                               | E           | F | G | H |
|---|-------------|---------------|-----------------------|---------------------------------|-------------|---|---|---|
| 1 |             |               |                       |                                 |             |   |   |   |
| 2 |             |               |                       |                                 |             |   |   |   |
| 3 | Row Labels  | Count of City | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average     |   |   |   |
| 4 | A           | 11            | 49.48941929           | 0.006728746                     | 84.95585779 |   |   |   |
| 5 | E           | 38            | 151.1612185           | 0.006833882                     | 75.60695538 |   |   |   |
| 6 | M           | 36            | 131.2417979           | 0.006773084                     | 69.23392388 |   |   |   |
| 7 | N           | 3             | 15.17096407           | 0.006604938                     | 92.58530184 |   |   |   |
| 8 | Grand Total | 88            | 347.0633997           | 0.006788063                     | 74.7472262  |   |   |   |

PivotTable Fields

Choose fields to add to report:

Search

Pace (Mins per Mile)  
 Activity Type(M/A/E/N)  
 Quarters  
 Years  
More Tables...

Drag fields between areas below:

Filters Columns  
Values

Rows Values  
Activity Type(M/A/E/N)  
Count of City

Defer Layout Update

More Number Formats...

More Number Formats...

123

General No specific format

Number 0.01

Currency \$0.01

Accounting \$0.01

Short Date 1/0/1900

Long Date Saturday, January 0, 1900

Time 12:09:41 AM

Percentage 0.67%

Fraction 0

Scientific 6.73E-03

10<sup>2</sup>

Update 3:20 AM 3/11/2023

Sheet13 Raw Data

Average: 0.006735162 Count: 4 Sum: 0.026940649

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review

Clipboard Font Alignment

D4

Format Cells

Category: General

Type: General

Sample: 0.00672874579124579

0

0.00

#.##0

#.##0.00

#.##0\_);(0##0)

#.##0\_);(0##0.00)

#.##0\_);(0##0.00)

\$#.##0\_);(\$#0)

\$#.##0\_);(0##0)

\$#.##0\_);(\$#0.00)

0.00

OK Cancel

Row Labels Count of City Sum of Distance Miles Average of Pace (Mins per Mile) Activity Type(M/A/E/N)

A 11 49.48941929 0.006735162

E 38 151.1612185 0.006735162

M 36 131.2417979 0.006735162

N 3 15.17096407 0.006735162

Grand Total 88 347.0633997 0.006735162

Sheet13 Raw Data

Average: 0.006735162 Count: 4 Sum: 0.026940649

3:21 AM 3/11/2023

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review

Clipboard Font Alignment

D4

Format Cells

Category: General

Type: hhmm:ss

Sample: 00:09:41

0

0.00

#.##0

#.##0.00

#.##0\_);(0##0)

#.##0\_);(0##0.00)

#.##0\_);(0##0.00)

\$#.##0\_);(\$#0)

\$#.##0\_);(0##0)

\$#.##0\_);(\$#0.00)

0.00

OK Cancel

Row Labels Count of City Sum of Distance Miles Average of Pace (Mins per Mile) Activity Type(M/A/E/N)

A 11 49.48941929 0.006735162

E 38 151.1612185 0.006735162

M 36 131.2417979 0.006735162

N 3 15.17096407 0.006735162

Grand Total 88 347.0633997 0.006735162

Sheet13 Raw Data

Average: 0.006735162 Count: 4 Sum: 0.026940649

3:21 AM 3/11/2023

Fitbit Data - Solution - Excel

PivotTable Fields

|   | A           | B             | C                     | D                               | E                         | F | G | H |
|---|-------------|---------------|-----------------------|---------------------------------|---------------------------|---|---|---|
| 1 |             |               |                       |                                 |                           |   |   |   |
| 2 |             |               |                       |                                 |                           |   |   |   |
| 3 | Row Labels  | Count of City | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average of Elevation Feet |   |   |   |
| 4 | A           | 11            | 49.48941929           | 00:09:41                        | 84.95585779               |   |   |   |
| 5 | E           | 38            | 151.1612185           | 00:09:50                        | 75.60695538               |   |   |   |
| 6 | M           | 36            | 131.2417979           | 00:09:45                        | 69.23392388               |   |   |   |
| 7 | N           | 3             | 15.17096407           | 00:09:31                        | 92.58530184               |   |   |   |
| 8 | Grand Total | 88            | 347.0633997           | 0.006788063                     | 74.7472262                |   |   |   |

Sheet13 Raw Data

Accessibility: Investigate

3:21 AM 3/11/2023

- Go to the insert slicer

Fitbit Data - Solution - Excel

PivotTable Tools

PivotTable Fields

Insert Slicer

Use a slicer to filter data visually. Slicers make it faster and easier to filter Tables, PivotTables, PivotCharts, and cube functions.

|   | A           | B             | C                     | F                               | G                         | H |
|---|-------------|---------------|-----------------------|---------------------------------|---------------------------|---|
| 1 |             |               |                       |                                 |                           |   |
| 2 |             |               |                       |                                 |                           |   |
| 3 | Row Labels  | Count of City | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average of Elevation Feet |   |
| 4 | A           | 11            | 49.48941929           | 00:09:41                        | 84.95585779               |   |
| 5 | E           | 38            | 151.1612185           | 00:09:50                        | 75.60695538               |   |
| 6 | M           | 36            | 131.2417979           | 00:09:45                        | 69.23392388               |   |
| 7 | N           | 3             | 15.17096407           | 00:09:31                        | 92.58530184               |   |
| 8 | Grand Total | 88            | 347.0633997           | 0.006788063                     | 74.7472262                |   |

Sheet13 Raw Data

Accessibility: Investigate

3:23 AM 3/11/2023

- Select date/time slicer

- Create another pivot table into the existing sheet - sheet 13

Fitbit Data - Solution - Excel

PivotTable Recommended Tables

Insert

PivotTables

Tables

Illustrations

Recommended Charts

My Add-ins

Add-ins

Charts

3D Map

Tours

Line

Column

Win/Loss

Slicer

Timeline

Link

Text

Symbols

A11

Date/Time

PivotTable from an external source

'Sheet 13'!\$A\$11

A B C D E F G H I J K L M N

Row Labels Count of City Sum of Distance Miles Average of Pace (Mins per Mile) Average of Elevation Feet

A 11 49,489,419,29 00:09:41 84,955,857,79

E 38 151,161,218,5 00:09:50 75,606,955,38

M 36 131,241,797,9 00:09:45 69,233,923,88

N 3 15,170,964,07 00:09:31 92,585,530,184

Grand Total 88 347,063,399,7 0.006788063 74,747,226,2

Jan

Apr

May

Jun

Jul

Aug

Sep

Oct

Sheet 13 Raw Data

Accessibility: Investigate

3:26 AM 3/11/2023

- Create a pivot table to calculate number of activity per city, then sort the data in descending order, and color code top 5 cities using conditional formatting

Fitbit Data - Solution - Excel

PivotTable Tools

PivotTable Analyze

Design

Row Labels

Subtotals Grand Report Blank Layout Rows

Totals Layout

Layout

Row Headers Banded Rows

Column Headers Banded Columns

PivotTable Style Options

PivotTable Styles

A13

Count of Date/Time

Amsterdam

Baishui

Banjar Pasekan

Becerril

Buenos Aires

Chicago

Colombia

Dalinhe

FresnColombia (City)

GounRow: Colombia

Haebaru

Halden

Haodi

Jamshoro

Jasaan

Jingxiyan

Khotiv

Jul

Aug

Sep

Oct

Sheet 13 Raw Data

Accessibility: Investigate

3:29 AM 3/11/2023

Fitbit Data - Solution - Excel

PivotTable Tools Design

Subtotals Grand Report Blank Rows Layout

Row Headers Banded Rows

Column Headers Banded Columns

PivotTable Style Options PivotTable Styles

B14 : fx 7

A B C D E F G

9

10

11

12

13 Row Labels Count of Date

14 Amsterdam 7

15 Baishui

16 Banjar Pasekan

17 Becerril

18 Buenos Aires

19 Chicago

20 Colombia

21 Dalinhe

22 Fresno

23 Goundam

24 Haeburu

25 Halden

26 Haodi

27 Jamshoro

28 Jasaan

29 Jingxiyuan

30 Khotiv

Sheet 13 Raw Data

Search the menus

Copy Format Cells... Number Format... Refresh Sort Sort Smallest to Largest Sort Largest to Smallest Remove "Count of Date/Time" Summarize Values By Show Values As Show Details Value Field Settings... PivotTable Options... Hide Field List

PivotTable Fields

Choose fields to add to report:

Search

Date/Time Time Distance Meters Duration Elevation Cm

Drag fields between areas below:

Filters Columns

Rows Values

City Count of Date/Time

Defer Layout Update Update

3:30 AM 3/11/2023

Accessibility: Investigate

Fitbit Data - Solution - Excel

PivotTable Tools Design

Clipboard Paste

Font Calibri 11

Alignment Wrap Text Merge & Center

Number General

Conditional Formatting

Format as Table Cell Styles Insert Delete Format

Cells

B14 : fx 12

A B C D E

9

10

11

12

13 Row Labels Count of Date/Time

14 Melbourne 12

15 New York 7

16 Amsterdam 7

17 Mexico City 5

18 Chicago 5

19 San Luis Obispo 5

20 Buenos Aires 5

21 Tel Aviv 5

22 Runaway Bay 4

23 Tokoyo 4

24 Colombia 3

25 Mumbai 3

26 New Orleans 2

27 Baishui 1

28 Dalinhe 1

29 Quezalguaque 1

30 Jasaan 1

Sheet 13 Raw Data

Conditional Formatting

Easily spot trends and patterns in your data using bars, colors, and icons to visually highlight important values.

6 4 9 7 3

Tell me more

PivotTable Fields

Choose fields to add to report:

Search

Date/Time Time Distance Meters Duration Elevation Cm

Drag fields between areas below:

Filters Columns

Rows Values

City Count of Date/Time

Defer Layout Update Update

3:30 AM 3/11/2023

Accessibility: Investigate

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Font Alignment Number

Clipboard Paste

Font: Calibri, Size: 11, Bold, Italic, Underline, Alignment: Merge & Center, Number: General

Conditional Formatting: Highlight Cells Rules, Top/Bottom Rules, Top 10 Items...

Cells: Insert, Delete, Format, Sort & Find & Filter, Select, Editing

Row Labels: Count of Date/Time

|    | A               | B                  | C           | D           | E        |
|----|-----------------|--------------------|-------------|-------------|----------|
| 8  | Grand Total     | 88                 | 347.0633997 | 0.006788063 | 74.74722 |
| 9  |                 |                    |             |             |          |
| 10 |                 |                    |             |             |          |
| 11 |                 |                    |             |             |          |
| 12 |                 |                    |             |             |          |
| 13 | Row Labels      | Count of Date/Time |             |             |          |
| 14 | Melbourne       | 12                 |             |             |          |
| 15 | New York        | 7                  |             |             |          |
| 16 | Amsterdam       | 7                  |             |             |          |
| 17 | Mexico City     | 5                  |             |             |          |
| 18 | Chicago         | 5                  |             |             |          |
| 19 | San Luis Obispo | 5                  |             |             |          |
| 20 | Buenos Aires    | 5                  |             |             |          |
| 21 | Tel Aviv        | 5                  |             |             |          |
| 22 | Runaway Bay     | 4                  |             |             |          |
| 23 | Tokyo           | 4                  |             |             |          |
| 24 | Colombia        | 3                  |             |             |          |
| 25 | Mumbai          | 3                  |             |             |          |
| 26 | New Orleans     | 2                  |             |             |          |
| 27 | Baishui         | 1                  |             |             |          |
| 28 | Dalinhe         | 1                  |             |             |          |
| 29 | Quezalguaque    | 1                  |             |             |          |

Sheet 13 Raw Data

Average: 2.588235294 Count: 68 Sum: 88

3:31 AM 3/11/2023

Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Font Alignment Number

Clipboard Paste

Font: Calibri, Size: 11, Bold, Italic, Underline, Alignment: Merge & Center, Number: General

Conditional Formatting: Highlight Cells Rules, Top/Bottom Rules, Top 10 Items...

Cells: Insert, Delete, Format, Sort & Find & Filter, Select, Editing

Row Labels: Count of Date/Time

|    | A               | B                  | C           | D           |
|----|-----------------|--------------------|-------------|-------------|
| 8  | Grand Total     | 88                 | 347.0633997 | 0.006788063 |
| 9  |                 |                    |             |             |
| 10 |                 |                    |             |             |
| 11 |                 |                    |             |             |
| 12 |                 |                    |             |             |
| 13 | Row Labels      | Count of Date/Time |             |             |
| 14 | Melbourne       | 12                 |             |             |
| 15 | New York        | 7                  |             |             |
| 16 | Amsterdam       | 7                  |             |             |
| 17 | Mexico City     | 5                  |             |             |
| 18 | Chicago         | 5                  |             |             |
| 19 | San Luis Obispo | 5                  |             |             |
| 20 | Buenos Aires    | 5                  |             |             |
| 21 | Tel Aviv        | 5                  |             |             |
| 22 | Runaway Bay     | 4                  |             |             |
| 23 | Tokyo           | 4                  |             |             |
| 24 | Colombia        | 3                  |             |             |
| 25 | Mumbai          | 3                  |             |             |
| 26 | New Orleans     | 2                  |             |             |
| 27 | Baishui         | 1                  |             |             |
| 28 | Dalinhe         | 1                  |             |             |
| 29 | Quezalguaque    | 1                  |             |             |

Top 10 Items

Format cells that rank in the TOP: 10 with Light Red Fill with Dark Red Text

OK Cancel

PivotTable Fields

Choose fields to add to report:

Search

Date/Time

Time

Distance Meters

Duration

Elevation Cm

Drag fields between areas below:

Filters Columns

Rows Values

City Count of Date/Time

Defer Layout Update

Average: 2.588235294 Count: 68 Sum: 88

3:32 AM 3/11/2023

- Using pivot chart option, create a column chart for the city and activity distribution

Fitbit Data - Solution - Excel

PivotTable Tools

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Active Field: City

Group Selection Insert Slicer Insert Timeline Refresh Change Data Source Actions Fields, Items, & Sets OLAP Tools Relationships Calculations

PivotTable Tools

PivotChart Recommended PivotTables Tools Field List +/- Buttons Field Headers Show

Row Labels

|    | A              | B  | C | D | E | F | G |
|----|----------------|----|---|---|---|---|---|
| 27 | Baishui        | 1  |   |   |   |   |   |
| 28 | Dalinhe        | 1  |   |   |   |   |   |
| 29 | Quezalguaque   | 1  |   |   |   |   |   |
| 30 | Jasaan         | 1  |   |   |   |   |   |
| 31 | Marseille      | 1  |   |   |   |   |   |
| 32 | Halden         | 1  |   |   |   |   |   |
| 33 | Jamshoro       | 1  |   |   |   |   |   |
| 34 | Haodi          | 1  |   |   |   |   |   |
| 35 | Jingxiyuan     | 1  |   |   |   |   |   |
| 36 | Banjar Pasekan | 1  |   |   |   |   |   |
| 37 | Shuinanxu      | 1  |   |   |   |   |   |
| 38 | Goundam        | 1  |   |   |   |   |   |
| 39 | Seget          | 1  |   |   |   |   |   |
| 40 | Haeburu        | 1  |   |   |   |   |   |
| 41 | Shamkhor       | 1  |   |   |   |   |   |
| 42 | Fresno         | 1  |   |   |   |   |   |
| 43 | Liangnong      | 1  |   |   |   |   |   |
| 44 | Yao'an         | 1  |   |   |   |   |   |
| 45 | Becerril       | 1  |   |   |   |   |   |
| 46 | Lesnoy         | 1  |   |   |   |   |   |
| 47 | Khotiv         | 1  |   |   |   |   |   |
| 48 | Grand Total    | 88 |   |   |   |   |   |

Sheet 13 Raw Data

Average: 5.028571429 Count: 72 Sum: 176

3:33 AM 3/11/2023

Accessibility: Investigate

PivotTable Fields

Choose fields to add to report:

Search

Date/Time

Time

Distance Meters

Duration

Elevation Cm

Drag fields between areas below:

Filters Columns

Rows Values

City Count of Date/Time

Defer Layout Update Update

Fitbit Data - Solution - Excel

PivotTable Tools

File Home Insert Draw Page Layout Formulas Data Review View Help PivotTable Analyze Design Tell me what you want to do

Active Field: City

Group Selection Insert Slicer Insert Timeline Refresh Change Data Source Actions Fields, Items, & Sets OLAP Tools Relationships Calculations

PivotTable Tools

PivotChart Recommended PivotTables Tools Field List +/- Buttons Field Headers Show

Row Labels

|    | A              | B  | C | D | E | F | G |
|----|----------------|----|---|---|---|---|---|
| 27 | Baishui        | 1  |   |   |   |   |   |
| 28 | Dalinhe        | 1  |   |   |   |   |   |
| 29 | Quezalguaque   | 1  |   |   |   |   |   |
| 30 | Jasaan         | 1  |   |   |   |   |   |
| 31 | Marseille      | 1  |   |   |   |   |   |
| 32 | Halden         | 1  |   |   |   |   |   |
| 33 | Jamshoro       | 1  |   |   |   |   |   |
| 34 | Haodi          | 1  |   |   |   |   |   |
| 35 | Jingxiyuan     | 1  |   |   |   |   |   |
| 36 | Banjar Pasekan | 1  |   |   |   |   |   |
| 37 | Shuinanxu      | 1  |   |   |   |   |   |
| 38 | Goundam        | 1  |   |   |   |   |   |
| 39 | Seget          | 1  |   |   |   |   |   |
| 40 | Haeburu        | 1  |   |   |   |   |   |
| 41 | Shamkhor       | 1  |   |   |   |   |   |
| 42 | Fresno         | 1  |   |   |   |   |   |
| 43 | Liangnong      | 1  |   |   |   |   |   |
| 44 | Yao'an         | 1  |   |   |   |   |   |
| 45 | Becerril       | 1  |   |   |   |   |   |
| 46 | Lesnoy         | 1  |   |   |   |   |   |
| 47 | Khotiv         | 1  |   |   |   |   |   |
| 48 | Grand Total    | 88 |   |   |   |   |   |

Sheet 13 Raw Data

Average: 5.028571429 Count: 72 Sum: 176

3:33 AM 3/11/2023

Accessibility: Investigate

Insert Chart

All Charts

Recent

Templates

Column

Line

Pie

Bar

Area

X Y (Scatter)

Map

Stock

Surface

Radar

Treemap

Sunburst

Histogram

Box & Whisker

Waterfall

Funnel

Combo

Clustering

Total

OK Cancel

PivotTable Fields

Choose fields to add to report:

Search

Date/Time

Time

Distance Meters

Duration

Elevation Cm

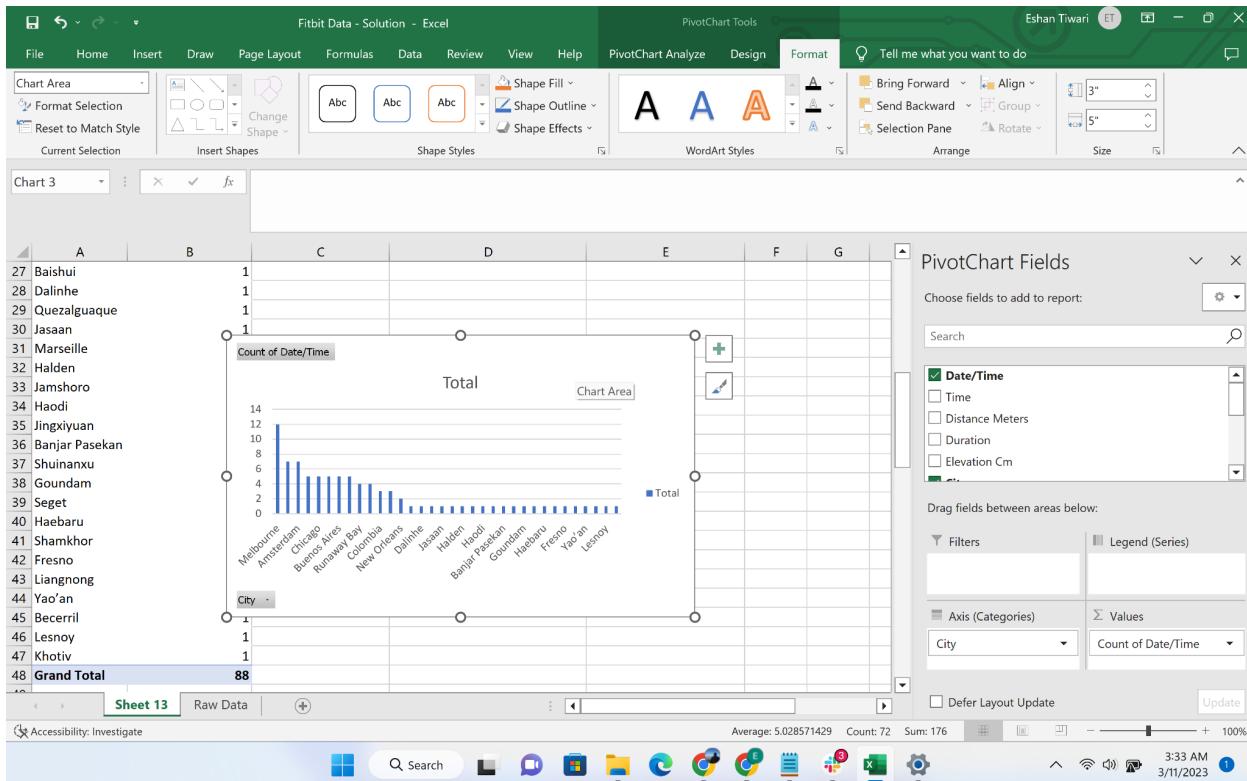
Drag fields between areas below:

Filters Columns

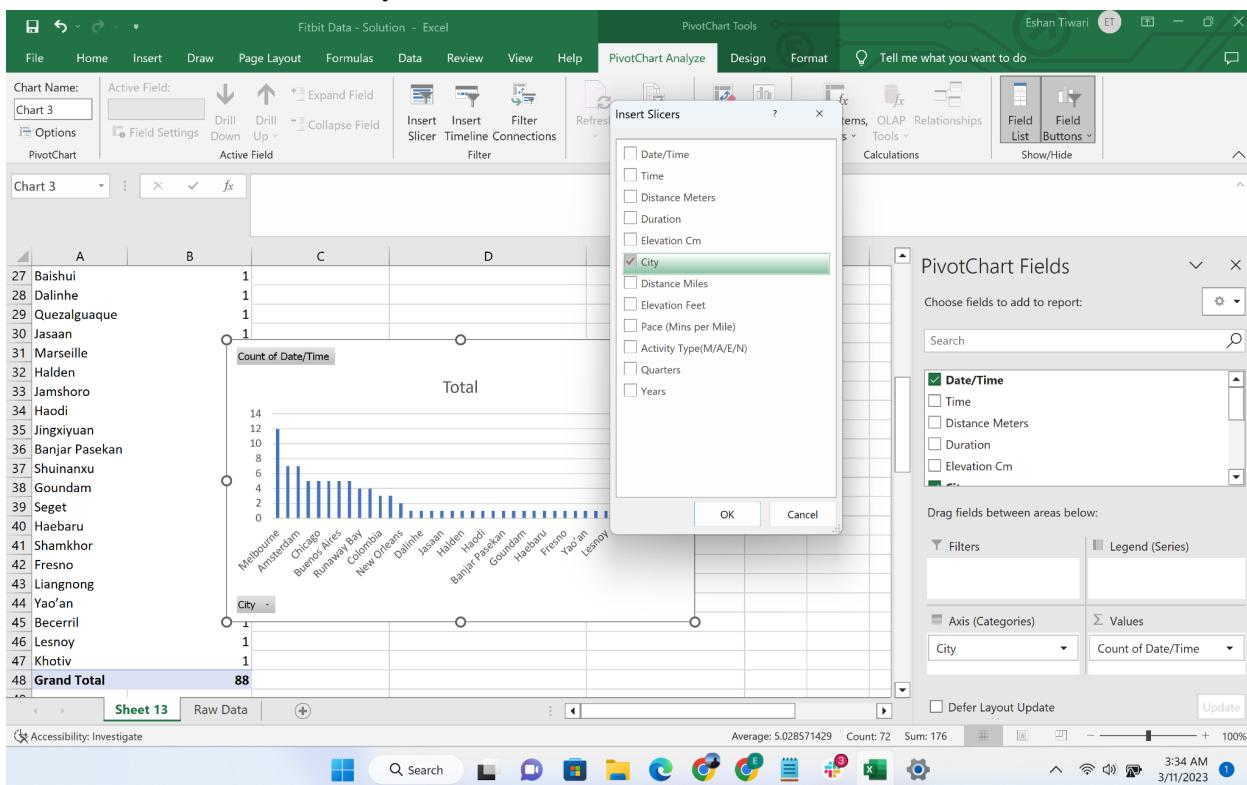
Rows Values

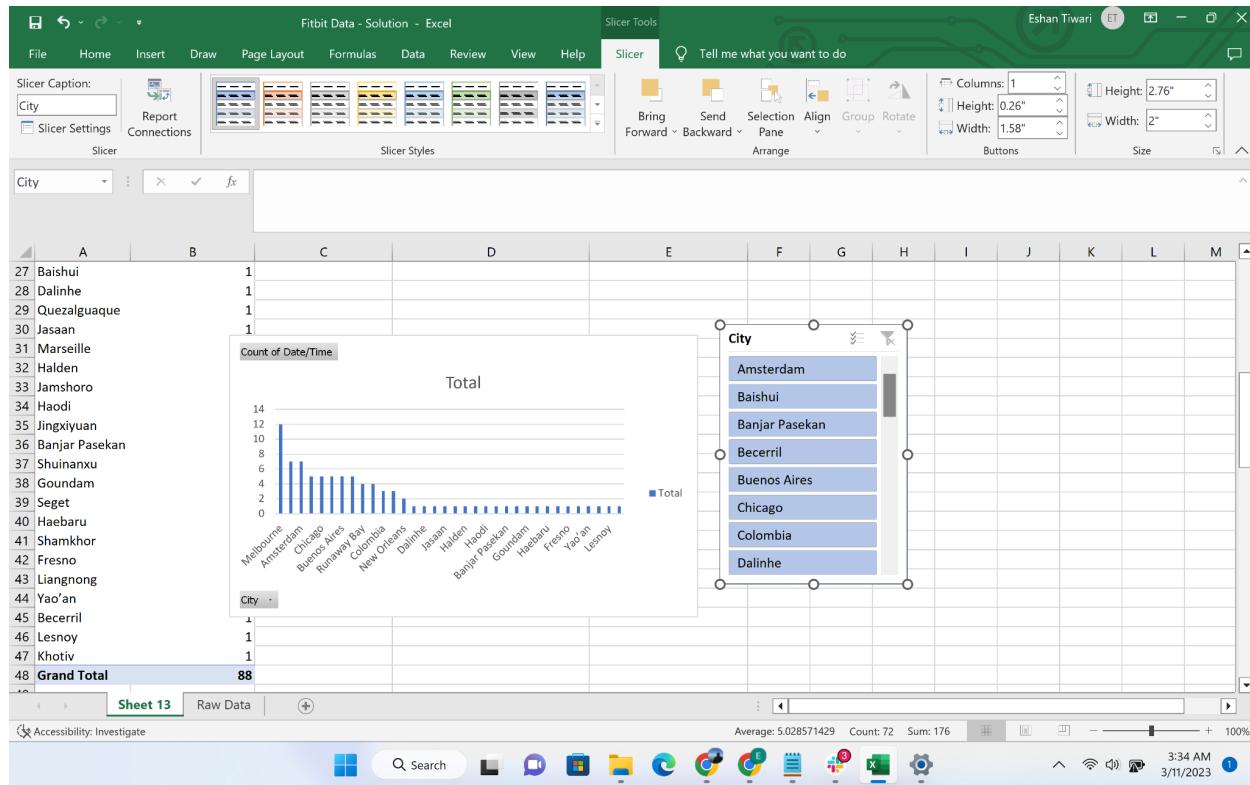
City Count of Date/Time

Defer Layout Update Update

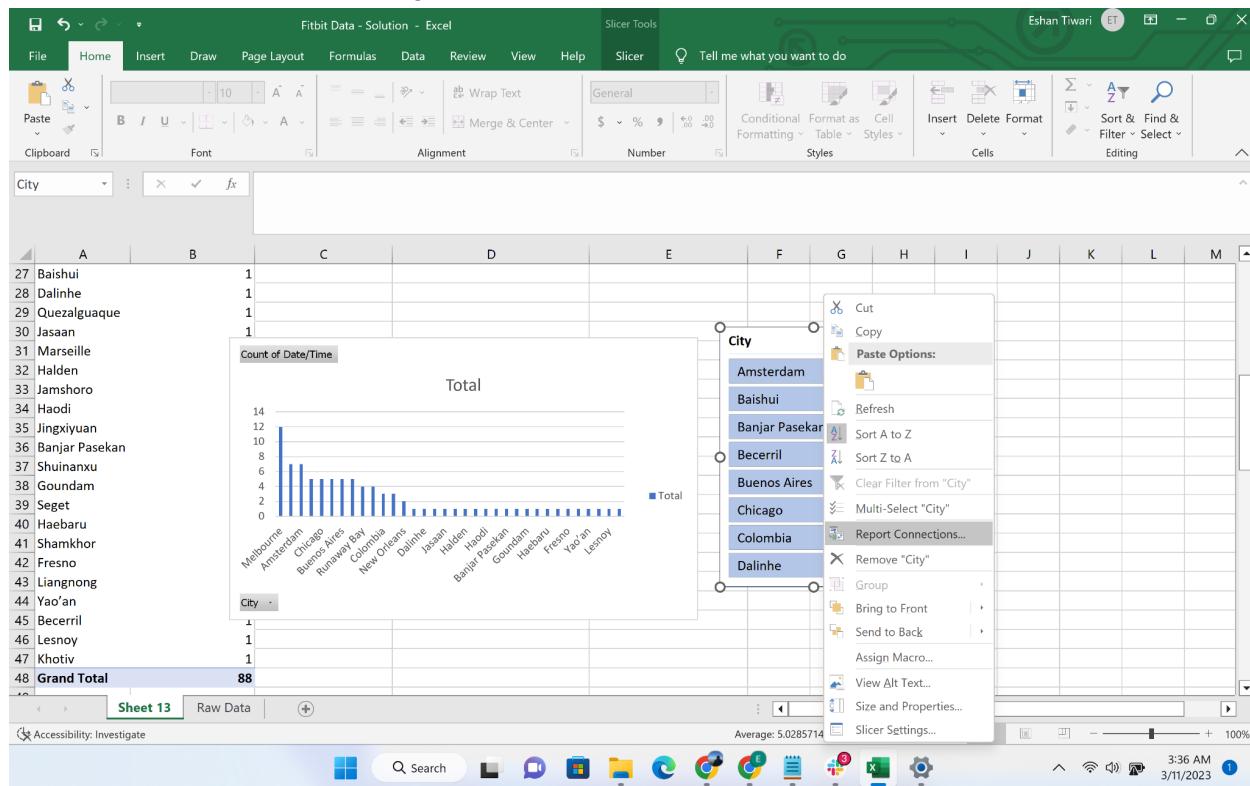


- Insert Slicer for the city name





- Link the two slicers using “Report Connections”



Fitbit Data - Solution - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help Slicer Tools

Clipboard Paste Font Alignment Number Styles Cells

Font Alignment Number Styles Cells

City

A B C D E F G H I J K L M

27 Baishui  
28 Dalinhe  
29 Quezalguaque  
30 Jasaan  
31 Marseille  
32 Halden  
33 Jamshoro  
34 Haodi  
35 Jingxiyuan  
36 Banjar Pasekan  
37 Shuinanxu  
38 Goundam  
39 Seget  
40 Haeburu  
41 Shamkhor  
42 Fresno  
43 Liangnong  
44 Yao'an  
45 Becerril  
46 Lesnoy  
47 Khotiv  
48 Grand Total 88

Count of Date/Time

Total

Melbourne Amsterdam Chicago Buenos Aires Runaway Bay Colombia New Orleans Dalinhe Halden Haodi Goundam Haeburu Fresno Yao'an Lesnoy

City

Amsterdam  
Baishui  
Banjar Pasekan  
Report Connections (City)

Select PivotTable and PivotChart reports to connect to this filter

|  |          |
|--|----------|
| Name   | Sheet    |
| <input type="checkbox"/> PivotTable13            | Sheet 13 |
| <input checked="" type="checkbox"/> PivotTable14 | Sheet 13 |

OK Cancel

Sheet 13 Raw Data

Average: 5.028571429 Count: 72 Sum: 176

3:36 AM 3/11/2023

docs.google.com/document/d/1TaA-Ot\_a3D1gNL5fE3cpaYBwcEuQA96itwaaZLK9GpE/edit#

Excel Class-4

File Edit View Insert Format Tools Extensions Help Last edit was seconds ago

Normal text Arial 11

100% 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 Grand Total 88

SUMMARY

OUTLINE

Excel Class-3

Agenda:

Dataset used for the class:

Steps to develop Dashboard:

Detailed Notes for Dashboard ...

Data Preparation: Create 4 col...

Chart Creation

Report Connections (City)

Select PivotTable and PivotChart reports to connect to this filter

|  |          |
|--|----------|
| Name   | Sheet    |
| <input checked="" type="checkbox"/> PivotTable13 | Sheet 13 |
| <input checked="" type="checkbox"/> PivotTable14 | Sheet 13 |

OK Cancel

Sheet 13 Raw Data

Average: 5.028571429 Count: 72 Sum: 176

3:36 AM 3/11/2023

The screenshot shows a Microsoft Excel interface with the following details:

- File:** Fitbit Data - Solution - Excel
- Home Tab:** Selected
- Clipboard:** Paste, Font, Alignment, Number, Styles, Insert, Delete, Format, Cells, Sort & Filter, Find & Select, Editing.
- Table:** A PivotTable is displayed with the following data (approximate values):
 

|                    | Count of City | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average of Elevation Feet |
|--------------------|---------------|-----------------------|---------------------------------|---------------------------|
| A                  | 11            | 49.48941929           | 00:09:41                        | 84.95585779               |
| E                  | 38            | 151.1612185           | 00:09:50                        | 75.60695538               |
| M                  | 36            | 131.2417979           | 00:09:45                        | 69.23392388               |
| N                  | 3             | 15.17096407           | 00:09:31                        | 92.58530184               |
| <b>Grand Total</b> | <b>88</b>     | <b>347.0633997</b>    | <b>0.006788063</b>              | <b>74.7472262</b>         |
- Slicer:** A Date/Time slicer is applied, showing months from Jan to Jul.
- Report Connections (Date/Time) Dialog:** An open dialog box lists two connections:
 

| Name   | Sheet    |
|--|----------|
| <input checked="" type="checkbox"/> PivotTable13 | Sheet 13 |
| <input type="checkbox"/> PivotTable14            | Sheet 13 |
- Sheet Tab:** Sheet 13 (selected), Raw Data
- Bottom Bar:** Average: 5.028571429, Count: 72, Sum: 176, 3:36 AM, 3/11/2023

### 3. Dashboard Creation

- Copy-paste the slicer and charts on the dashboard tab

Fitbit Data - Solution - Excel

Eshan Tiwari ET

File Home Insert Draw Page Layout Formulas Data Review View Help Tell me what you want to do

Normal Page Break Page Custom Preview Layout Views Workbook Views

Ruler Formula Bar Gridlines Headings

Zoom 100% Zoom to Selection Window All Freeze Panes Hide

New Arrange Window Window Synchronous Scrolling

Switch Windows Macros

Macros

D20

A B C D E F G H I J K L

**Date/Time**

|                    | Count of Date/Time | City               | Sum of Distance Miles | Average of Pace (Mins per Mile) | Average of Elevation Feet |
|--------------------|--------------------|--------------------|-----------------------|---------------------------------|---------------------------|
| A                  | 11                 | 49.48941929        | 00:09:41              | 84.95585779                     |                           |
| E                  | 38                 | 151.1612185        | 00:09:50              | 75.60695538                     |                           |
| M                  | 36                 | 131.2417979        | 00:09:45              | 69.23392388                     |                           |
| N                  | 3                  | 15.17096407        | 00:09:31              | 92.58530184                     |                           |
| <b>Grand Total</b> | <b>88</b>          | <b>347.0633997</b> | <b>0.006788063</b>    | <b>74.7472262</b>               |                           |

**Count of Date/Time**

Total

Chart Area

Chart Dashboard Raw Data

Accessibility: Investigate

3:40 AM 3/11/2023