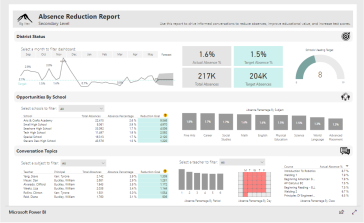


Attendance Tracker - Improving School Attendance by Decisive Data
02-02-2017 10:05 PM - last edited 10-03-2017 08:57 AM

Evan_at_DD
Frequent Visitor

21020 Views

**BACKGROUND**

Attendance is vital to learning, however the abundance of noise contained within attendance data can make it difficult for school administrators to find the information they need to tell a clear concise story, especially if they are tracking across many different teachers, classes, and schools.

Improved technology can help administrators turn this daunting chaotic data into meaningful information. Under older technology systems it was difficult to share current up-to-date data in a way that anyone can use. Now, institutions are empowered to share data through Microsoft's Power BI Dashboards. The following is an elegant and clear example of how complicated data from many different class rooms, teachers, and schools can be organized into a simple dashboard.

**DATA STORY**

Research shows more conversations between students and teachers can lead to increased attendance. Therefore, we designed this dashboard to drive more conversations, and increased engagement, between administrators, teachers, and students. This dashboard will identify important conversations from the district level down to each individual teacher.

**FLOW**

The **District Status** section provides district administrators with a high-level understanding of attendance trends and goals. The line chart shows actuals compared to target over time and gives a predicted range for future months.

The **Opportunities by School** section will help district administrators target the most important schools to work with. Most important is defined as having the highest opportunity for Absence Reduction.

The **Conversation Topics** section will help school administrators as they reach out to teachers on an individual basis. This sections provides relevant information such as subject, course, period, and day of the week.

**INTERACTIONS**

We gave special attention to interactions within Power BI. Using insights gained from each section, the next section can be filtered to target areas of interested or concern.

First use the Opportunities by School section to multi-select schools that are most important to target

For example, the user may wish to select "high schools" only.

This will result in a comparison of "high schools" that contain the highest opportunity for absence reduction. This section of the dashboard shows the 'Absence Percentage' distributed by Subject. This is helpful for school administrations to create strategies to decrease absences.

Next, within the Conversation Topics section, select a subject such as 'math'. This gives school administrators the insights by individual teacher. Finally, further information about an individual teacher's classes can be used to help facilitate relevant conversations.

**SUMMARY**

One of the most valuable aspects of growing in digital maturity, is to use data to provide insights into our area of influence. The use of Power BI to build this Absence Reduction Report is a powerful example of how new technology has transformed a school administrations' ability to track their student's attendance and identify strategies for reducing absences for schools, teachers, or by subject.

**By Evan Schmidt, Ed Moyer, Tully Lanter, Jared Kruizen, and Casey McBreen**

DecisiveData

% Attendance Thumbnail.PNG

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Message 1 of 15

## Comments

**Pedzilla** (Ex-IoT)
Member

May I ask if you use Custom Visual for Day of the week grid? It looks like Calendar Visual by @AndyC. Andy Cross but I am not certain.

Thank you

Pedzie

Report Inappropriate Content | Everyone's tags (1): Custom visual | 0 | Reply

Message 2 of 15

**Evan_at_DD** (Ex-IoT)
Frequent Visitor

Hi Pedzilla,

The calendar was made with the Synoptic Panel.

http://vizlab.com/synoptic-panel/

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Message 3 of 15

**Sohail** (Ex-IoT)
Regular Visitor

Great Dashboard,

Can you share the Pbix file please or link from where we can download it thanks

Regards

Sohail

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Message 4 of 15

**tuilik** (Ex-IoT)
Occasional Visitor

Excellent work, is it possible to share the pbix or a demo on how you generated the report?

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Message 5 of 15

**AndersenLagmar** (Ex-IoT)
Frequent Visitor

This looks great and would help our school, could you share the pbix?

Thanks

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Message 6 of 15

**AndyPOsint** (Ex-IoT)
Frequent Visitor

Great Dashboard. Can you share the Pbix file please ?

Thanks.

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Message 7 of 15

**Evan_at_DD** (Ex-IoT)
Frequent Visitor

The dashboard is proprietary, but I will be happy to answer questions about it.

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Message 8 of 15

**Evan_at_DD** (Ex-IoT)
Frequent Visitor

The time series was implemented with three objects:

- A weekly line chart with the Forecast feature turned on in the Analytics pane
- A slicer with orientation set to horizontal
- A text box to indicate "Forecast"

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**Maria_Super_BI** (Ex-IoT)
Frequent Visitor

How do you do the information over the yellow circle "?" ?

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