HILLSBOROUGH COUNTY PUBLIC SCHOOLS

Using Power BI to Address Disproportionate Discipline

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HILLSBOROUGH COUNTY PUBLIC SCHOOLS

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CCEIS Overview

Disproportionality and Comprehensive Coordinated Early Intervening Services (CCEIS)

What is Disproportionality?

- Defined "over-representation" or "under-representation" of a particular population or demographic group
- Complex issue that impacts
 - Racial/ethnic groups
 - ≻ ELL
 - ➢ Gender
 - SES Socio Economic status
 - LRE Least Restrictive Environment
 - Discipline





Comprehensive Coordinated Early Intervening Services (CCEIS) Hillsborough School District Discipline - Out-of-School Suspensions more than 10 Days Risk Ratios, 2017-18 and 2019-20

LEA is identified as having significant disproportionality for Out-of-School Suspensions more than 10 days by: Having a risk ratio greater than 3.0 for for past three years and not meeting reasonable progress.

Hills	borou	gh
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Out-of-Sch	ool Suspensions more than 10 days	Hispanic/ Latino	American Indian or Alaska Native	Asian	Black or African American	Native Hawaiian or Other Pacific Islander	White	Two or More Races	Risk (Black/African American)*	Comparison Risk (All Other Races)**	Risk ÷ Comparison Risk = Risk Ratio***
2017-18	Out-of-School Suspensions more than 10 days	70	1	1	182	0	48	9	182/10750)* 100 =	129/30684*100 = 0.420414548	4.03
	memoeranp	10105	05	720	10750	42	12001	1005	1.055025250	0.420414548	
2018.10	Out-of-School Suspensions more than 10 days	53	0	2	158	0	35	5	158/11056*100=	95/31572*100=	4.75
2010-19	Membership	16782	64	756	11056	41	12155	1774	1.429088278	0.300899531	4.75
2019-20	Out-of-School Suspensions more than 10 days	30	0	0	58	0	12	2	58/7921*100=	44/25107*100=	4.18
2013-20	Membership	13409	39	624	7921	33	9614	1388	0.732230779	0.17524993	4.10

* Risk = Number of discipline incidents by Black/African American students divided by total number of Black/African American SWD X 100 (no rounding).

** Comparison Risk = Number of discipline incidents by all other races combined divided by total number of all other races SWD X 100 (no rounding).

*** Risk Ratio = Risk divided by Comparison Risk (rounded to two decimal places).

Comprehensive Coordinated Early Intervening Services (CCEIS)- Discipline

- Black SWD are disproportionately suspended for > 10 days (data from 6/5/21)
- 3.46 times more likely than other SWD (CCEIS)
- 4.93 times more likely than all other students (Indicator 4B)

Required Comprehensive Coordinating Early Intervening Services (CCEIS)

- Mandatory 15% Set Aside of IDEA Grant (about 6.8 Million)
- Funds must be used to root out the factors that lead to disproportionality
- Used only to address relevant flaws in policies, practices, or procedures
- Identify and address disproportionality
- Must have a correlation between what lead to disproportionality and funds used to address it



Data? Calculations?

We knew we had a problem with disproportionate discipline outcomes, but we didn't know exactly:

- what specific data were used
- how the calculations were made
- how to get ahold of and monitor the data during the year instead of after it was over



Equity Profile

Cohort schools went through the four-step problem solving with USF/PBIS. The Equity profile is the basis of the work.

- Schools had to complete it by hand
- Time Consuming
- Data was in many different places

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4						Guiding Q Are ou equitabl student	uestion 1: toomes e for all groups?		Guding (Question 2: I the disparition	How big are es?		Guiding Question 3: How much of your target group is affected by disproportion	
6	School Name:	Number	Number	Tetel		Student Compositio n	Referral Ratio	Roforral Rato	Risk Ratio	in Student Compositio	Difference in Referral Compostion	Roforral Cumpuri tiun	Risk	
7		Number of Students Enrolled at the School	of Students in Group Who Receive d a Referral	lotal Number of Referral s from Group	Graup's Porcoat af Studoat Bady	The Xaletudents with released who halong to a torget group; BEB calls suggest dirpenapartia sulity	Roferral Fate for group divided by the Roferral Fate for all other students; 2.0 is equal	Total number af referrade for group divide d by the number of errolled students from that group	Group's siek of seestiving o sederstal composed to oliather students; 3.8 is second	Student Comparition minur the Percent of the Student Endy; Paritien values suggest dispropertie adity	Fictored Comparition nitor the Persons of the Student Sody: Paritine robust suggest dispensest elity	Xal rodorrab darby farby studiotral o porticulor graup	Xaletudoolerin o gezup sala horo-ot loartzan eoloerol	
9	White	2			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
10	Hispanic/Latine				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Africa American/ Blac	1			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12	American Indian, Alaskan Native	-			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13	Asia	1			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
14	Native Hawaiian, Pacific Islande				N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	e e	RaceEthr	nicityODR	ESE :	Status C	DR R	aceEthnic	ityOSS	ESE Sta	tus OSS	÷			



Data For Root Cause Analysis

Problem Identification – Specific Definition of Patterns-*Select the one pattern* Date of Data Pull: 05/01/2020 you want to focus on (i.e. problem behavior, location, etc.)

4. What are the mo patterns for your Problem Definition Temple	est common discipline target group? (Guiding Question 4; ate, "Target Group Input" tab)	4b. Is this pattern common to 50% or more of the target group's referrals and/or students who have referrals? (Guiding Question 4b; Problem Definition Template, "Target Group Input" tab)	5. Is this pattern <u>UNIQUE</u> to your target group, or is it the <u>same</u> as the discipline pattern for all other students? (Guiding Question 5; Problem Definition Template, "Pattern Comparison" tab)
Problem Behavior	Skipping	Yes	Unique
Location	Cla	Yes	Unique
Time	tween 5 th and 6 th period	Yes	Unique
Admin Decision	Detention	Yes	Unique
Grade	10	No	Same
Motivation	Avoid Task	Yes	Unique



We Needed More

We attempted:

- To match calculations
- To request/generate various reports
- To disaggregate data by subgroup/school

However,

- we could never exactly replicate it
- the process was very cumbersome/manual
- the data were cold too quickly
- we wanted to slice and dice the data in too many ways for a report or even set of reports



Power BI Dashboards



Power BI Solution Goals

- Wanted a solution that projected CCEIS ratios based on the FLDOE calculations for current school year
- Wanted to use FLDOE file submissions to show YOY trends for district use
- Needed to provide visibility to each school in the district with timely data
- Needed views on who was receiving discipline, who was referring, and who was assigning discipline responses



Power BI Solution

- Utilized Power BI desktop files (.pbix) to develop district and school dashboards
- Used Powershell script to generate school dashboards off a single master workbook and refresh with current data each week
- Shared with schools and district staff via Sharepoint with object level security by school



Initial Design

- Designed a District Dashboard that can see trends by grade level, school type, individual schools and standard student cohort groups
- Refreshed weekly to address timeliness of data
- Rolled out pilot for schools in cohorts and then district-wide



Data Governance

- Needed a trusted source of data used by district staff to prevent dueling data sources
- Partnered with IT to get access to data extracts for student enrollment and historical discipline information for Power BI
- Pulled information weekly and refreshed solution
- Partnered with technical liaison and IT to resolve any data quality issues



Data Liaison Between Programmatic and Technical

- Helped translate educationese and technical lingo
- Communicated ESE's vision and needs to technical folks (even though they know education)
- Assisted in obtaining the necessary data
- Made sure everyone understood the data elements and was on the same page



Side Benefit – Cleaner Data!

As the dashboards were built and tested, we came across many different types of issues

- We worked with IT to clean the source data
 - Add labels to new variables/values
 - Edit outdated labels
 - Recode miscoded ESE determinations
 - Multiple actions for single incident not showing
 - Multiple incidents on a single day not showing
 - Include teacher writing referral and administrator assigning discipline



Side Benefit – Cleaner Data!

As the dashboards were built and tested, we came across many different types of issues

- We worked with schools to clean the data they were inputting
 - Open referrals not processed
 - Multiple records of same incident
 - Students not attending ISS automatically flipped to OSS
- Transparency held schools accountable - could no longer discount their data



Side Benefit – Cleaner Data!

As the dashboards were built and tested, we came across many different types of issues

- We worked with FLDOE to understand the intricate details of how the ratios were calculated for CCEIS
 - When was ESE status determined?
 - Do summer incidents count?



School Enrolled	\sim
All	\sim
School Number	\sim
All	\sim
School Type	~
All	\sim
Grade Level	~
All	\sim

CCEIS Risk Gap

Ethnicity	Enrollment (Overall)	Students with > 10 days OSS Duration (Overall)	Students (ESE)	Students > 10 days OSS Duration (ESE)	Students (GenEd)	Students > 10 days OSS Duration (GenEd)
American Indian Or Alaskan Native	382	0	49	0	333	0
Asian Or Pacific Islander	9,734	2	672	0	9,062	2
Black, Non-Hispanic	44,268	101	8,030	30	36,238	71
Hispanic	77,906	40	12,949	10	64,957	30
Multiracial	13,043	9	1,860	2	11,183	7
White, Non-Hispanic	67,114	39	9,242	13	57,872	26
Total	212,447	191	32,802	55	179,645	136

Ethnicity	% Enrollment	% Enrollment ESE	% Enrollment GenEd	Student Composition % (> 10 Days OSS Overall)	Student Composition % (> 10 Days OSS ESE)	Student Composition % (> 10 Days OSS GenEd)	Risk Ratio (ESE) 4B	Risk Ratio (CCEIS)
American Indian Or Alaskan Native	0.2%	0.1%	0.2%	0.0%	0.0%	0.0%	0.00	0.00
Asian Or Pacific Islander	4.6%	2.0%	5.0%	1.0%	0.0%	1.5%	0.00	0.51
Black, Non-Hispanic	20.8%	24.5%	20.2%	52.9%	54.5%	52.2%	4.93	3.46
Hispanic	36.7%	39.5%	36.2%	20.9%	18.2%	22.1%	1.02	0.41
Multiracial	6.1%	5.7%	6.2%	4.7%	3.6%	5.1%	1.42	0.82
White, Non-Hispanic	31.6%	28.2%	32.2%	20.4%	23.6%	19.1%	1.86	0.65
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	2.21	

Data Refreshed from IPT as of: 6/5/2021 6:48:17 AM



PUBLIC SCH Preparing Students fo	HOOLS for Life			Et	thnicit	y Risk G	ap - Offi	ce Disc	ipline R	eferral	s (ODR)		Guiding Question 3: How much of you target group is affected by
School Enrolled	~					Guiding Que equitable for	estion 1: Are ou all student grou	tcomes ips?		Guiding Quite the disparit	uestion 2: Ho ies?	w big are		disproportionate discipline?
School Number	~	Ethnicity	Enrollment	Students	Incident	% Enrollment	Student	Referral Ratio (ODR)	Referral Rate (ODR)	Risk Ratio	Diff in Student	Diff in Referral	Referral	Risk (ODR)
All	\sim		count	Incidents	count		% (ODR)	Natio (ODII)	Nute (ODII)	(001)	Composition (ODR)	Comp	composition	
- L . I T		Hispanic	77.906	7.323	19,936	36.7%	35,1%	0.84	0.26	0.93	-1.4	5 -3.8	3 32.8%	9,49
cnool Type	~	White, Non-Hispanic	67,114	4,795	12,439	31.6%	23.0%	0.56	0.19	0.65	-8.	5 -11.	1 20.5%	7,19
All	\sim	Black, Non-Hispanic	44,268	7,367	24,675	20.8%	35.3%	2.60	0.56	2.07	14.	5 19.8	40.6%	16.69
		Multiracial	13,043	1,153	3,190	6.1%	5.5%	0.85	0.24	0.89	-0.	5 -0.9	5.3%	8.89
rade Level	\sim	Asian Or Pacific Islander	9,734	204	441	4.6%	1.0%	0.15	0.05	0.21	-3.	5 -3.9	0.7%	2.19
	\sim	American Indian Or Alaskan Native	382	30	57	0.2%	0.1%	0.52	0.15	0.80	0.0	0 -0.	0.1%	7.99
		Total	212,447	20,872	60,738	100.0%	100.0%		0.29		0.0	0 0.0	0 100.0%	9.85
		Total	212,447	20,872 E1	60,738	100.0% y Risk G	ap - Out	of Scho	0.29	pensio	۵. ns (OSS) o.(0 100.0%	9.89 Guiding Question 3: How much of your target group is affected by
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		Total Ethnicity American Indian Or Alaskan Native Asian Or Pacific Islander	Enrollment Count 382 9,734	20,872 Et Students with OSS Incidents 8 50	60,738 thnicit	100.0% y Risk G Guiding Quest equitable for al % Enrollment 0.2% 4.6%	i 100.0% ap - Out ion 1: Are outco i student group Student f % (OSS) 0.1% 0.7%	of Scho omes s? Referral Ratio (OSS) 0.45 0.11	0.29 DOOI SUS Referral Rate (OSS) 0.02 0.01	Guiding Que the disparitie Risk Ratio (OSS) 0.59 0.14	0. ns (OSS estion 2: How s? Diff in Student Composition (OSS) -0.07 -3.91	big are Diff in OSS Comp -0.10 -4.05	0 100.0%	9.89 Guiding Question 3: How much of your target group is affected by disproportionate discipline? Risk (OSS) 2.1% 0.5%
		Total Ethnicity American Indian Or Alaskan Native Asian Or Pacific Islander Black, Non-Hispanic	212,447 Enrollment Count 382 9,734 44,268	20,872 Ef Students with OSS Incidents 8 500 3,074	60,738 thnicit OSS Incident Count 9 60 4.839	100.0% y Risk G Guiding Quest equitable for al % Enrollment 0.2% 4.6% 20.8%	i 100.0% ap - Out ion 1: Are outco i student group Student I % (OSS) 0.1% 0.7% 41.0%	of Scho omes s? Referral Ratio (OSS) 0.45 0.11 2.88	0.29 DOOI SUS Referral Rate (OSS) 0.02 0.01 0.11	Guiding Que the disparitie Risk Ratio (OSS) 0.59 0.14 2.64	0.1 estion 2: How s? Diff in Student Composition (OSS) -0.07 -3.91 20.20	0 0.0 big are Diff in OSS Comp -0.10 -4.05 22.27	0 100.0% OSS Composition 0.1% 0.5% 43,1%	9.89 Guiding Question 3: How much of your target group is affected by disproportionate discipline? Risk (OSS) 2.1% 0.5% 6.9%
		Total Ethnicity American Indian Or Alaskan Native Asian Or Pacific Islander Black, Non-Hispanic Hispanic	212,447 Enrollment Count 382 9,734 44,268 77,906	20,872 Et Students with OSS Incidents 8 50 3,074 2,426	60,738 thnicit OSS Incident Count 9 60 4,839 3,541	100.0% y Risk G Guiding Quest equitable for al % Enrollment 0.2% 4.6% 20.8% 36.7%	i 100.0% ap - Out ion 1: Are outor I student group Student I Composition I % (OSS) 0.1% 0.7% 41.0% 32.4%	of Scho omes s? Referral Ratio (OSS) 0.45 0.11 2.88 0.80	0.29 DOOI SUS Referral Rate (OSS) 0.02 0.01 0.01 0.01	Guiding Que Guiding Que Risk Ratio (OSS) 0.59 0.14 2.64 0.83	0.1 ns (OSS sstion 2: How s2 Diff in Student Composition (OSS) -0.07 -3.91 20.20 -4.28	0 0.0 big are Diff in OSS Comp -0.10 -4.05 22.27 -5.13	0 100.0% OSS Composition 0.1% 0.5% 43.1% 31.5%	9.89 Guiding Question 3: How much of your target group is affected by disproportionate discripline? Risk (OSS) 2.1% 0.5% 6.9% 3.1%
		Total Ethnicity American Indian Or Alaskan Native Asian Or Pacific Islander Black, Non-Hispanic Hispanic Multiracial	212,447 Enrollment Count 382 9,734 44,268 77,906 13,043	20,872 E1 Students with OSS Incidents 8 50 3,074 2,426 403	60,738 thnicit OSS Incident Count 9 60 4,839 3,541 576	100.0% y Risk G Guiding Quest equitable for al % Enrollment 0.2% 4.6% 20.8% 36.7% 6.1%	i 100.0% ap - Out ion 1: Are outch I student group Student I Composition I % (OSS) 0.1% 0.7% 41.0% 32.4% 5.4%	of Sche s? Referral Ratio (OSS) 0.45 0.11 2.88 0.80 0.83	0.29 DOOI SUS Referral Rate (OSS) 0.02 0.01 0.11 0.05 0.04	Guiding Que the dispartite Risk Ratio (OSS) 0.59 0.14 2.64 0.83 0.87	0.1 ns (OSS estion 2: How s? Diff in Student Composition (OSS) -0.07 -3.91 20.20 -4.28 -0.76 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78 -0.78	big are Diff in OSS Comp -0.10 -4.05 22.27 -5.13 -1.01	0 100.0% OSS Composition 0.1% 0.5% 43.1% 31.5% 5.1%	9.89 Guiding Question 3: How much of your target group is affected by disproportionate discipline? Risk (OSS) 2.1% 0.5% 6.9% 3.1% 3.1%
		Total Ethnicity American Indian Or Alaskan Native Asian Or Pacific Islander Black, Non-Hispanic Hispanic Multiracial White, Non-Hispanic	212,447 Enrollment Count 382 9,734 44,268 77,906 13,043 67,114	20,872 Et Students with OSS Incidents 8 50 3,074 2,426 403 1,529	60,738 thnicit OSS Incident Count 9 60 4,839 3,541 576 2,200	100.0% y Risk G Guiding Quest equitable for all % Enrollment 0.2% 4.6% 20.8% 36.7% 6.1% 31.6%	i 100.0% ap - Out ion 1: Are outor is student group Student 1 Composition 1 % (OSS) 0.1% 0.7% 41.0% 32.4% 2.4% 2.4%	of Sche s? Referral Ratio (OSS) 0.45 0.11 2.88 0.80 0.83 0.53	0.29 DOOI SUS Referral Rate (OSS) 0.02 0.01 0.11 0.05 0.04 0.03	Guiding Que the disparitie Risk Ratio (OSS) 0.59 0.14 2.64 0.83 0.87 0.56	0.1 ns (OSS estion 2: How s? Diff in Student Composition (OSS) -0.07 -3.91 20.20 -4.28 -0.76 -1.11.8	big are big are Diff in OSS Comp -0.10 -4.05 22.27 -5.13 -1.01 -11.99	0 100.0% OSS Composition 0.1% 0.5% 43.1% 31.5% 5.1% 19.6%	9.89 Guiding Question 3: How much of your target group is affected by disproportionate discipline? Risk (OSS) 2.1% 0.5% 6.9% 3.1% 2.3%



PUBLIC SCF Preparing Students	HOOLS for Life				E	SE Risk (5ap - Offi	ce Discip	oline Ref	errals (ODR)	hig are the		Guiding Question How much of your target group is affected by disproportionate
All	V					for all student	groups?	nes equitable		disparities?	lestion 2. How	big are the		discipline?
School Number	~	IEP Status	Enrollment Count	Students with Incidents	Incident Count	% Enrollment	Student Composition % (ODR)	Referral Ratio (ODR)	Referral Rate (ODR)	Risk Ratio (ODR)	Diff in Student Composition (ODR)	Diff in Referral Comp	Referral Composition	Risk (ODR)
		Active IEP	32,802	4,181	14,173	15.4%	20.0%	1.67	0.43	1.37	4.6	7.9	23.3%	12.7
chool Type	\sim	General Education	179,645	16,691	46,565	84.6%	80.0%	0.60	0.26	0.73	-4.6	-7.9	76.7%	9.3
di l	\sim	Total	212,447	20,872	60,738	100.0%	100.0%		0.29		0.0	0.0	100.0%	9.8
rade Level	~													
irade Level	~				E	SE Risk (5ap - Out	of Schoo	ol Suspe	nsions	(OSS)			Guiding Question How much of your target group is affected by
irade Level	~				E	SE Risk (Guiding Ques for all student	Sap - Out tion 1: Are outcor groups?	of Schoo	ol Suspe	Guiding Quidisparities?	(OSS) Jestion 2: How	big are the		Guiding Question How much of your target group is affected by disproportionate discipline?
irade Level	~ ~	IEP Status	Enrollment Count	Students with OSS Incidents	OSS Incident Count	SE Risk (Guiding Ques for all student % Enrollment	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS)	of Schoo mes equitable Referral Ratio (OSS)	Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS)	(OSS) Person 2: How Diff in Student Composition (OSS)	big are the Diff in OSS Comp	OSS Composition	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)
rade Level	~ ~	IEP Status Active IEP	Enrollment Count 32,802	Students with OSS Incidents 1,788	OSS Incident Count 2,923	5E Risk (Guiding Ques for all student % Enrollment 15.4%	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.9%	of Schoo mes equitable Referral Ratio (OSS) 6 1.93	Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS) 1.72	(OSS) Lestion 2: How Diff in Student Composition (OSS) 8.43	big are the Diff in OSS Comp 10.60	OSS Composition 26.0%	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)
rade Level ปไ	~	IEP Status Active IEP General Education	Enrollment Count 32,802 179,645	Students with OSS Incidents 1,788 5,702	OSS Incident Count 2,923 8,302	SE Risk (Guiding Ques for all student % Enrollment 15.4% 84.6%	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.99 76.19	of Schoo mes equitable Referral Ratio (OSS) 6 1.93 6 0.52	Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS) 1.72 0.58	(OSS) Prestion 2: How Diff in Student (OSS) 8.43 -8.43	big are the Diff in OSS Comp 10.60 -10.60	OSS Composition 26.0% 74.0%	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)







Preparing Stud	ents for Life		÷				-		Occurred At School	(
	Referrals By Sta	aff				Discipline Acti	ons By Staff		All	`
Referral Creator	School Name		Incident Count	^	Assigning Admin	School N	lame	Incident 🔨 Count	School Type	
	Freedom High Schoo	I	1,316		11111	Freedom	High School	1,674	All	`
	Freedom High Schoo	d	785			Freedom	High School	1,250	Grade Level	
	Bloomingdale High S	chool	696			Blooming	gdale High School	1,015		-
	Jefferson High Schoo	d	605			Jeffersor	High School	985	All	
	Wharton High Schoo	1	597			Wharton	High School	979	Instruction Type	
	Sickles High School		573			Greco M	iddle Magnet School	799	A11	
	Plant High School		465			Blake Hig	gh School	763	All	
	Hillsborough High Sc	hool	437			Marshall	Middle Magnet Schoo	1 742	Ethnicity	
	Alonso High School		404	× 1		Hillsbord	ugh High School	718	All	`
Ισται			61,976		Iotal			61,976	Drimory Exceptionality	
			Incider	nt Type	9	D	iscipline Action		Primary Exceptionality	
Incidente Ry Et	thnicity								All	`
incluents by E	uniterty	Disobedien.			11,724	In-School S	11,9	69	IEP Status	
3,241 (5%) —		Skipping Cl.			10,731	Out-Of-Sch		11,225		
	25,190 (41%)	Tardines	ss		10,416	Detention	9,	065	All	<u>`</u>
12,696 (20%)		Disruptiv	re		9,775	Conference	7,654		504 Eligibility	
		Other Mino.	3,	573		Other	3,923		All	
		Fighting(se.	3,2	287		Conference	3,285			
		Disrespectfu	ul 2,353	3		Work Detail	2,691		FRL Status	
		Left Class .	1,268			Telephone	2,177		All	0
		Tobacco Po.	1,145			Timeout	1,998		Gender	
20,344 (33%) —		Physical Att.	1,070			Suspended	1,346			
			OK		10K	OV	10	/	All	2
Ethnicity Black, Non-Hispanic Hisp	oanic 🛑 White, Non-Hi 🕨		UK	Incident	TOK	UK	Incident Total		Incident Type	







Power BI Tips & Tricks

How did we make these dashboard screens work so well together?



Optional Prompts

- Allow users to slice and dice data in their preferred way
- Does not have to be a field that is showing in a visualization to use as a filter





Optional Prompts





Optional Prompts





- Power BI sets every visual on a single report page to interact with each other by default
- Using a visualization to filter other visualizations is an intuitive and powerful way to uncover potential correlations



 Example of an optional prompt affecting all the other objects on the page





 Example where one chart affects some of the other objects, but not everything





 Example where one chart affects some of the other objects, but not everything





 Example where one chart affects some of the other objects, but not everything





- Edit interactions button is under the Format menu
- Shows how the selected object (Bottom right chart) will affect each visual





Drill Through Capabilities

- Drill through: a visualization that allows the user to navigate to another report page to see additional details
- Allowing for drill through activity empowers end user to answer their next question about the data
 - Who are the 10 students behind this bar in the chart?
 - The chart shows ISS as the most common response, but I'd like to see the details behind the chart and look for patterns.



Drill Through Capabilities




9 🍨	Hillsborough County PUBLIC SCHOOLS Preparing Students for Life	Incident	Detail		11,225	11,225 Discipline Respon	ses			
tudent	District # School Enrolled	School Occurred	Incident Date Incide	ent Number	Category	Reason	Response	Duration Refe_	School Enrolled	~
		•							All	\sim
		1 44111	01/19/2021	25590	Fighting	Fighting(serious Mutual Altrn)	Out-Of-School Suspension	5 Jone	Occurred At School	1
			11/09/2020	13275	Physical Attack	Physical Attack	Out-Of-School Suspension	2 Jone		
			09/11/2020	612	Personal Conduct	Disruptive	Out-Of-School Suspension	1 Jone	All	V
1 Martin			09/29/2020	3096	Personal Conduct	Profanity	Out-Of-School Suspension	2 Holl	Ethnicity	
			10/06/2020	4837	Physical Attack	Physical Attack	Out-Of-School Suspension	3 Jone	Ethnicity	-
			09/09/2020	388	Fighting	Fighting(serious Mutual Altrn)	Out-Of-School Suspension	3 Jone	All	~
			09/28/2020	2793	Fighting	Fighting(serious Mutual Altrn)	Out-Of-School Suspension	4 Jone	IED Status	
			01/28/2021	28631	Fighting	Fighting(serious Mutual Altrn)	Out-Of-School Suspension	5 Stan	IEF Status	
			10/27/2020	10064	Inappropriate Sexual Behavior	Inappropriate Sexual Behavior	Out-Of-School Suspension	3 Stan	All	1
			11/05/2020	12400	Personal Conduct	Disruptive	Out-Of-School Suspension	1 Jone	Catagory	_
			12/11/2020	19623	Personal Conduct	Disruptive	Out-Of-School Suspension	1 Jone	Category	
			12/11/2020	19757	Physical Attack	Physical Attack	Out-Of-School Suspension	5 Stan	All	1
			10/29/2020	10647	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	1 Jone	Desses	
			11/17/2020	14447	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	1 Jone	Reason	
			12/01/2020	17260	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	2 Stan	All	1
			12/15/2020	20625	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	1 Jone	D	
			01/06/2021	22984	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	2 Jone	Response	
			01/12/2021	24433	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	2 Jone	All	1
			11/05/2020	12165	Personal Conduct	Disrespectful	Out-Of-School Suspension	1 Mille		
			01/20/2021	25719	Fighting	Fighting(serious Mutual Altrn)	Out-Of-School Suspension	2 Jone	Ctrl + click to reset	filte
			03/02/2021	41413	Fighting	Eighting(serious Mutual Altrn)	Out-Of-School Suspension	3 Hall	Applied Filters	
			12/10/2020	19379	Personal Conduct	Disruptive	Out-Of-School Suspension	1 Jone	The local and th	-
			01/08/2021	23619	Personal Conduct	Disruptive	Out-Of-School Suspension	1 Jone	All	
			02/02/2021	30114	Physical Attack	Physical Attack	Out-Of-School Suspension	5 Jone	Filter Category	
			12/11/2020	19697	Personal Conduct	Disobedience/Insubordination	Out-Of-School Suspension	2 Holl	i intel: Category	
		-	04/12/2021	52655	Alcohol/Drugs	Drug Possession And/Or Use	Out-Of-School Suspension	5 Berr	All	
na m		< 01/1/1	05/11/2021	64449	Alcohol/Drugs	Drug Possession And/Or Use	Out-Of-School Suspension	3 Jone	Filter: Reason	
/tal								25,478 ×	Out-Of-School Suspens	sior
						Data Refreshed f	rom IPT as of: 6/5/202	6:48:17 AM	Filter: Response	



Drill Through Capabilities – Export Details









Drill Through Capabilities – Multiple Target Options



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Student Discipline Detail

Student detail data will only be displayed from a drill-through from another Report Tab. Select a student on another screen, right click, select drill-through, and choose Student Discipline Detail

Student:



School Enrolled:

Winthrop Charter School

Incident Date	Incident Number	Student	School Occurred	Category	Reason	Response	Duration Referral Creator Assigning Admin Susj Day
04/14/2021			Winthrop Charter School	Personal Conduct	Disruptive	Out-Of-School Suspension	2
05/07/2021		de LUL	Winthrop Charter School	Personal Conduct	Disruptive	Out-Of-School Suspension	2
05/28/2021			Winthrop Charter School	Personal Conduct	Disruptive	Out-Of-School Suspension	1
iotai							-
<							>
							Data Refreshed from IPT as of: 6/5/2021 6:48:17 AM



- Include the field to use as the drill through item in the visualization pane on the target report
- Use that field in a visualization on a different report page, right click on the visualization to see the drill through choices
- Report pages that are drill through enabled are seen here (use good naming conventions)





- Include the field to use as the drill through item in the visualization pane on the target report
- Use that field in a visualization on a different report page, right click on the visualization to see the drill through choices
- Report pages that are drill through enabled are seen here (use good naming conventions)





- Include the field to use as the drill through item in the visualization pane on the target report
- Use that field in a visualization on a different report page, right click on the visualization to see the drill through choices
- Report pages that are drill through enabled are seen here (use good naming conventions)



SCHOOLS

Preparing Students for Life

44

- Power BI makes it easy to set background colors to help group data together
- Conditional formatting to highlight specific scenarios is a helpful way to monitor performance
 - \circ E.g. when Risk Ratio >= 3, red background











PUBLIC SCHOOI Preparing Students for Life	s			E	SE Risk (Gap - Offi	ce Discip	line Ref	errals (ODR)			Guiding Question 3 How much of your target group is affected by
School Enrolled					Guiding Ques	tion 1: Are outcor groups?	nes equitable		Guiding Qu	estion 2: How	big are the		disproportionate discipline?
All School Number	IEP Status	Enrollment Count	Students with	Incident Count	% Enrollment	Student Composition %	Referral Ratio (ODR)	Referral Rate (ODR)	Risk Ratio (ODR)	Diff in Student	Diff in Referral	Referral Composition	Risk (ODR)
All			Incidents			(ODR)				(ODR)	Comp		
	Active IEP	32,802	4,181	14,173	15.4%	20.0%	1.67	0.43	1.37	4.6	7.9	23.3%	12.79
School Type	General Education	179.645	16 691	46 565	84.6%	80.0%	0.60	0.26	0.73	-4.6	-7.9	76.7%	9.39
			10,001	10,000									
All Srade Level	Total	212,447	20,872	60,738	100.0% SE Risk (100.0% Gap - Out	of Schoo	0.29 Di Susper	nsions	0.0 (OSS)	0.0	100.0%	9.8 Guiding Question How much of your target group is affected by
All Grade Level	Total	212,447	20,872	60,738	100.0% SE Risk (Guiding Ques for all student	100.0% Gap - Out tion 1: Are outcor groups?	of Schoc	o.29	Guiding Qu disparities?	0.0 (OSS) Jestion 2: How	0.0 big are the	100.0%	9.8 Guiding Question : How much of your target group is affected by disproportionate discipline?
All Grade Level	IEP Status	212,447 Enrollment Count	20,872 Students with OSS Incidents	60,738 60,738 E	100.0% SE Risk (Guiding Ques for all student % Enrollment	100.0% Gap - Out tion 1: Are outcor groups? Student Composition % (OSS)	of Schoo nes equitable Referral Ratio (OSS)	0.29 DI Susper Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS)	0.0 (OSS) Diff in Student Composition (OSS)	0.0 big are the Diff in OSS Comp	OSS Composition	9.85 Guiding Question : How much of your target group is affected by disproportionate discipline? Risk (OSS)
All Srade Level	IEP Status Active IEP	212,447 Enroliment Count 32,802	20,872 20,872 Students with OSS Incidents	60,738 60,738 E OSS Incident Count	100.0% SE Risk (Guiding Ques for all student % Enrollment 15.4%	100.0% Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.9%	of Schoo nes equitable Referral Ratio (OSS)	0.29 DI Susper Referral Rate (OSS) 0.09	Guiding Qu disparities? Risk Ratio (OSS) 1.72	0.0 (OSS) Piff in Student Composition (OSS) 8.43	0.0 big are the Diff in OSS Comp 10.60	OSS Composition 26.0%	9.85 Guiding Question : How much of your target group is affected by disproportionate discipline? Risk (OSS)
All Grade Level	IEP Status Active IEP General Education	212,447 Enrollment Count 32,802 179,645	20,872 20,872 Students with OSS Incidents 1,788 5,702	OSS Incident 2,923 8,302	100.0% SE Risk (Guiding Ques for all student % Enrollment 15.4% 84.6%	100.0% Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.99 76.19	of Schoo nes equitable Referral Ratio (OSS) 5 1.93 5 0.52	0.29 DI Susper Referral Rate (OSS) 0.09 0.05	Guiding Qu disparities? Risk Ratio (OSS) 1.72 0.58	0.0 (OSS) Pestion 2: How Diff in Student Composition (OSS) 8.43 -8.43	0.0 big are the Diff in OSS Comp 10.60 -10.60	055 Composition 26.0% 74.0%	9.8 Guiding Question I How much of your target group is affected by disproportionate discipline? Risk (OSS) 5.5 3.2



PUBLIC SCHOO Preparing Students for Life	LS				Risk	Gap P	rojecti	on > 10	0 days	OSS (44	A/4B)					Y	
School Enrolled	~			Ethnicit	ty		Enrollment (Overall)	Students with > 10 days OSS Duration (Overall)	th Students (ESE)	Students > 10 days OSS Duration (ESE)	Students (GenEd)	Students > 10 days OSS Duration (GenEd)				Filters	
AII	\sim			Americ	an Indian Or Ala	askan Native	382	0	49	0	333	0					
school Type	~			Asian C	Dr Pacific Islande	er	9,734	2	672	0	9,062	2					<u> </u>
				Black, N	Non-Hispanic		44,268	101	8,030	30	36,238	71					∠ Search
AII	<u> </u>			Hispani	ic		77,906	40	12,949	10	64,957	30					 rotar
Frade Level	~			Multira	cial		13,043	9	1,860	2	11,183	7					
				White, I	Non-Hispanic		67,114	39	9,242	13	57,872	26					✓ Field formatting
				Guiding Ques	stion 1: Are out	comes	Guiding	Ouestion 2: +	How big are	the disparities	?		Guiding C much of v	uestion 3	: How group is ortionate		Conditional formattin Risk Ratio (ESE) 4B Background color
				Guiding Ques equitable for a	stion 1: Are out	comes ps?	Guiding	Question 2: +	How big are	the disparities	?		Guiding C much of v affected b discipline?	Question 3 our target y disprope	: How group is ortionate		Conditional formattin Risk Ratio (ESE) 4B Background color On —
thnicity	% Enrollment	% Enrollment ESE	% Enrollment GenEd	Guiding Que equitable for a Student Composition % (> 10 Days OSS Overall)	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE)	comes ps? Student Composition % (> 10 Days OSS GenEd)	Guiding Risk Ratio (Overall)	Question 2: + Risk Ratio (ESE) 4B (Ge	How big are tio Con enEd) Ove	the disparities in Student Di position Co rall (> 10 ES	? iff. in Student omposition SE (> 10 OSS)	Diff. in Student Composition GenEd (> 10 OSS)	Guiding C much of v affected b discipline? Risk (Overall)	Question 3 our target y dispropo Risk (ESE)	Risk (GenEd)		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color
thnicity , Vhite, Non-Hispanic	% Enrollment 31,6%	% Enrollment ESE 28.2%	% Enrollment GenEd 32.2%	Guiding Que: equitable for a Student Composition % (> 10 Days OSS Overall) 20.4%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23,6%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.1%	Guiding Risk Ratio (Overall)	Question 2: + Risk Ratio (ESE) 4B (Ge	How big are tio Con enEd) Ove 0.50	the disparities in Student D position Crall (> 10 ES) 0.00	? omposition SE (> 10 OSS) 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00	Guiding C much of y affected b discipline? Risk (Overall)	Risk (ESE)	Risk (GenEd)		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On
ithnicity • White, Non-Hispanic Aultiracial	% Enrollment 31.6% 6.1%	% Enrollment ESE 28.2% 5.7%	% Enrollment GenEd 32.2% 6.2%	Guiding Quee equitable for a Student Composition % (> 10 Days OSS Overall) 20.4% 4.7%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.1% 5.1%	Guiding Risk Ratio (Overall) 0.56 0.76	Question 2: + Ratio (ESE) 4B (Ge 1.86 1.42	How big are tio enEd) 0.50 0.82	the disparities in Student D position Ca rall (> 10 ES) 0.00 0.00	? omposition SE (> 10 OSS) 0.00 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00	Guiding C much of y affected b discipline? Risk (Overall) 0.00 0.00	Risk (ESE) 0.00 0.00	Risk (GenEd) 0.00 0.00		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On
thnicity White, Non-Hispanic Wultiracial Hispanic	% Enrollment 31.6% 6.1% 36.7%	% Enrollment ESE 28.2% 5.7% 39.5%	% Enrollment GenEd 32.2% 6.2% 36.2%	Guiding Quee equitable for a Student Composition % (> 10 Days OSS Overall) 20.4% 4.7% 20.9%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6% 18.2%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.1% 5.1% 22.1%	Guiding Risk Ratio (Overall) 6 0.56 0.76 0.46	Question 2: H Ratio (ESE) 4B 1.86 1.42 1.02	How big are bit Diff. con Ove OSS 0.50 0.82 0.50	the disparities in Student D position Ca rall (> 10 ES 0.00 0.00 0.00	? iff. in Student se (> 10 OSS) 0.00 0.00 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00 0.00	Guiding C much of y affected b discipline? Risk (Overall) 0.00 0.00 0.00	Ruestion 3 our target y disprope Risk (ESE) 0.00 0.00 0.00	Risk (GenEd) 0.00 0.00 0.00		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On Advanced conte
thnicity White, Non-Hispanic Multiracial Hispanic Black, Non-Hispanic	% Enrollment 31.6% 6.1% 36.7% 20.8%	% Enrollment ESE 28.2% 5.7% 39.5% 24.5%	% Enrollment GenEd 32.2% 6.2% 36.2% 20.2%	Guiding Quee equitable for a Student Composition % (> 10 Days OSS Overall) 20.4% 4.7% 20.9% 52.9%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6% 18.2% 54.5%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.1% 5.1% 22.1% 52.2%	Guiding Risk Ratio (Overall) 0.56 0.76 0.46 4.26	Question 2: H Risk Ratio (ESE) 4B 1.86 1.42 1.02 4.93	How big are tio Con enEd) Ove 0.50 0.82 0.50 4.32	the disparities in Student D position Cd rall (> 10 ES 0.00 0.00 0.00 0.00 32.04	? iff. in Student ise (> 10 OSS) 0.00 0.00 0.00 30.07	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00 0.00 0.00 32.03	Guiding C much of x affected b discipline? Risk (Overall) 0.00 0.00 0.00 0.00	Ruestion 3 our target dispropo Risk (ESE) 0.00 0.00 0.00 0.00	Risk (GenEd) 0.00 0.00 0.00 0.00		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On Advanced conte Data bars
thnicity Vhite, Non-Hispanic Aultiracial Hispanic Jack, Non-Hispanic Isian Or Pacific Islander	% Enrollment 31.6% 6.1% 36.7% 20.8% 4.6%	% Enrollment ESE 28.2% 5.7% 39.5% 24.5% 2.0%	% Enrollment GenEd 32.2% 6.2% 36.2% 20.2% 5.0%	Guiding Quee equitable for a Student Composition % (> 10 Days OSS Overall) 20.4% 4.7% 20.9% 52.9% 1.0%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6% 18.2% 54.5% 0.0%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.19 5.19 22.19 5.29 1.59	Guiding Risk Ratio (Overall) 6 0.56 6 0.76 6 0.46 6 4.26 0.22	Risk Risk Ratio Ratio (ESE) 4B (Ge 1.86 1.42 1.02 4.93 0.00 0	How big are bit of Con enEd) Over 0550 0.82 0.50 4.32 0.28	the disparities in Student D position rall (> 10 ES 0.00 0.00 0.00 0.00 32.04 0.00	? iff. in Student pmposition SE (> 10 OSS) 0.00 0.00 0.00 30.07 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00 0.00 3.2.03 0.00	Guiding C much of v affected b discipline? Risk (Overall) 0.00 0.00 0.00 0.00 0.00	Ruestion 3 our target y dispropo Risk (ESE) 0.00 0.00 0.00 0.00	I: How group is rrtionate Risk (GenEd) 0.00 0.00 0.00 0.00		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On Advanced conte Data bars Off O
thnicity /hite, Non-Hispanic /ultiracial lispanic ack, Non-Hispanic sian Or Pacific Islander merican Indian Or Alaskan Native	% Enrollment 31.6% 6.1% 20.8% 4.6% 0.2%	% Enrollment ESE 28.2% 5.7% 39.5% 24.5% 2.0% 0.1%	% Enrollment GenEd 32.2% 6.2% 36.2% 20.2% 5.0% 0.2%	Guiding Quee equitable for a Student Composition Ø (> 10 Days OSS Overall) 20.4% 4.7% 20.9% 52.9% 1.0% 0.0%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6% 18.2% 54.5% 0.0% 0.0%	comes ps? Student Composition % (> 10 Days OSS GenEd) 19.19 5.19 52.29 1.59 0.09 100 00	Guiding Risk Ratio (Overall) 6 0.56 6 0.76 6 0.46 6 4.26 6 0.22 6 0.00	Risk Risk Risk Ratio (ESE) 4B (Ge 1.86 1.42 (Ge 1.02 4.93 0.00 0.00 2.31 (Ge	How big are by Diff. Con Ove OSS 0.50 0.50 4.32 0.28 0.00	the disparities in Student D position C 0.00 0.00 0.00 0.00 3.2.04 0.00 0.00	? iff. in Student poposition SE (> 10 OSS) 0.00 0.00 30.07 0.00 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00 32.03 0.00 0.00	Guiding C much of y affected b discipline? Risk (Overall) 0.00 0.00 0.00 0.00 0.00 0.00	Risk (ESE) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	: How group is rrtionate Risk (GenEd) 0.00 0.00 0.00 0.00 0.00		Conditional formattin Risk Ratio (ESE) 48 Background color On Advanced conte Font color On Advanced conte Data bars Off O—
thnicity , Vhite, Non-Hispanic Aultiracial lispanic lack, Non-Hispanic sian Or Pacific Islander .merican Indian Or Alaskan Native otal	% Enrollment 31.6% 6.1% 36.7% 20.8% 4.6% 0.2% 100.0%	% Enrollment ESE 28.2% 5.7% 39.5% 24.5% 2.0% 0.1% 100.0%	% Enrollment GenEd 32.2% 6.2% 36.2% 20.2% 5.0% 0.2% 100.0%	Guiding Quee equitable for a Student Composition % (> 10 Days OSS Overall) 20.4% 4.7% 20.9% 52.9% 1.0% 100.0%	stion 1: Are out all student group Student Composition % (> 10 Days OSS ESE) 23.6% 3.6% 18.2% 54.5% 0.0% 0.0% 100.0%	comes ps? Student Composition % (> 10 Days) OSS GenEd) 19.19 5.19 2.2.19 5.2.29 1.55 0.09 100.0 %	Guiding Risk Ratio (Overall) 6 0.56 6 0.46 6 4.26 6 0.22 5 0.00	Question 2: H Ratio Ratio (ESE) 4B (Ge 1.86 1.42 1.02 4.93 0.00 0.00 2.21	How big are by Diff. tio Con Ove OSS 0.50 0.50 4.32 0.28 0.00	the disparities in Student D position Cr and Cr 0.00 0.00 0.00 32.04 0.00 0.00 0.00 0.00	? mposition E (> 10 OSS) 0.00 0.00 30.07 0.00 0.00 0.00 0.00	Diff. in Student Composition GenEd (> 10 OSS) 0.00 0.00 32.03 0.00 0.00 0.00	Guiding C much of x affected b discipline? Risk (Overall) 0.00 0.000 0.000 0.000 0.000 0.000 0.000	Risk (ESE) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	: How group is ortionate Risk (GenEd) 0.00 0.00 0.00 0.00 0.00 0.00		 Conditional formattin Risk Ratio (ESE) 48 Background color On — Advanced contr Font color On — Advanced contr Data bars Off O— Icons



Background color - Risk Ratio (ESE) 4B Format by Apply to Based on field Rick Ratio (ESE) Rules I'l Reverse color order + New rule I'ralue is greater than or equal to v 2 Number v and is less than v 3 Number v then v v v v I'ralue is greater than or equal to v 3 Number v and is less than v 9999 Number v then v v v v I'ralue is greater than or equal to v 3 Number v and is less than v 9999 Number v then v v v v Bick (Gental) Based on field Rick (Gental) Based on field Based on requal to v 2 Number v and is less than v 9999 Number v then v v v v Based on field Based on field Based on field Rick (Gental) Based on field Based on requal to v 3 Number v and is less than v 9999 Number v then v v v v Based on field Based on field Ba	 ✓ Visualizations ✓ Visualizations
30. 0 0.00	Icons Off O—
Data Refreshed from IPT as of: 6/5/2021 648:17 AM	Web URL Off O—



- <u>https://coolors.co</u>
- Generates various types of complimentary colors to help fill out your palette
- Possible to use a logo or other image to choose colors

Create a palette - Coolors	× +			• - · · ×
\leftrightarrow \rightarrow C \cong coolors.co/	0fa3b1-b5e2fa-f9f7f3-eddea4-f7a0	72		🖈 🚯 Update 🗄
		·· (2) [] (5 ~)	Gà ở ⊗ View ∞	Export 🗋 Save 🗮
054 281	RECEN	EQE7E2		E74072
Viridian Green	Uranian Blue	Isabelline	Medium Champagne	Light Salmon
Viridian Green	Uranian Blue	Isabelline	Medium Champagne	Light Salmon



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- Power BI leverages DAX query language to allow for powerful and complex calculations
- Note: this approach assumes the data has already been organized and modelled in a usable way
- Risk Ratio (CCEIS) Calculation

Number of students from racial/ethnic group in discipline category

Number of students with disabilities from racial/ethnic

Number of students all other students in discipline category

Number of all other students with disabilities





- Create new measures for each building block of calculation
- Be careful with context of measure: where you place it matters
- This approach helps with traceability and testing
- Use good naming conventions

Number of students from racial/ethnic group in discipline category

Number of students with disabilities from racial/ethnic

•

Number of students all other students in discipline category

Number of all other students with disabilities



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63

- Create new measures for each building block of calculation
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File Paste	Home Insert Modeling ▲ Cut ● Copy ≪ Format painter data → datasets	View Help External Tool SQL Enter Dataverse Recent Server data sources +	s Format	Data / Drill	New Quick measure measure	Sensitivity (preview) ~	Publish
	Clipboard	Data	Queries	Insert	Calculations	Sensitivity	Share
	Ethnicity	Students with > 10 days OSS Durati	on Students with I	EPs		V	62
Ħ	American Indian Or Alaskan Native		0	49			
6日	Asian Or Pacific Islander		2	672			
4	Black, Non-Hispanic	1	01 8,	030			
	Hispanic		40 12,	949			
	Multiracial		9 1,	860			
	White, Non-Hispanic		39 9,	242			-
	Total	,	91 32,	802			
	L		-				



- Create new measures for each building block of calculation
- Be careful with context of measure: where you place it matters
- This approach helps with traceability and testing
- Use good naming conventions

Hom	e table RiskGap - \$ - %	00 0 €		New Quick measure measure	
	Structure	Formatting	Properties	Calculations	
1	X ✓ 1 Total Students with > 10 Da	ays OSS Duration (dynamic) 🚬 calcula	ate(sum(RiskGap[Stude	ents with > 10 days OSS Duration	on]),ALLSELECTED(RiskGap))
		~			
1					
			-		
	Ethnicity Stud	dents with > 10 days OSS Duration Stud	dents with IEPs Total S	tudents with > 10 Days OSS Dura	tion (dynamic)
	American Indian Or Alaskan Native	0	49		191
	Asian Or Pacific Islander	2	672		191
	Black, Non-Hispanic	101	8,030		191
	Hispanic	40	12,949		191
	Multiracial	9	1,860		191
	White, Non-Hispanic	39	9,242		191
	Total	191	32,802		191
			*Calcula	ate function is the key t	o this approach



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- Create new measures for each building block of calculation
- Be careful with context of measure: where you place it matters
- This approach helps with traceability and testing
- Use good naming conventions

table R	Risk Ratio (CCEIS) RiskGap 🗸	Format General \$ ~ % • 38 Auto	Da	ata category Uncategoriz	ed 🗸	New Quick measure measure	
X V	I Risk Ratio (CC 2 DIVIDE(3 DIVIDE(4 sum([S 5 sum([S 6), 7 DIVIDE(8 ([Tota 9 ([Tota 10)	EIS) = tudents with > 10 days Of tudents with IEPs]) 2 3 1 Students with > 10 Days 1 IEP Enrollment (dynamic 4	SS Duration]), 1 s OSS Duration (c)]-Sum([Student	<pre>Properties dynamic)]-Sum([Studen s with IEPs])) 2</pre>	*No cont appr nts with > 10	Calculations te: purple measures a cext so that it is possib ropriate math on each 1 days OSS Duration])),	re ignoring le to do the row (Ethnicity
	11)		1	3	2	4	
	11	/	1 Students with > 10 days OSS Duration	3 Total Students with > 10 Days OSS Duration (dynamic)	2 Students with IEPs	4 Total IEP Enrollment (dynamic)	Risk Ratio (CCEIS)
	11) Ethnicity America	y In Indian Or Alaskan Native	1 Students with > 10 days OSS Duration 0	3 Total Students with > 10 Days OSS Duration (dynamic) 191	2 Students with IEPs 49	4 Total IEP Enrollment (dynamic) 32,802	Risk Ratio (CCEIS)
	11 Ethnicity America Asian O	y In Indian Or Alaskan Native r Pacific Islander	1 Students with > 10 days OSS Duration 0 2	3 Total Students with > 10 Days OSS Duration (dynamic) 191 191	2 Students with IEPs 49 672	4 Total IEP Enrollment (dynamic) 32,802 32,802	Risk Ratio (CCEIS) 0.00 0.51
	11 Ethnicity America Asian O Black, N	y In Indian Or Alaskan Native r Pacific Islander on-Hispanic	1 Students with > 10 days OSS Duration 0 2 101	3 Total Students with > 10 Days OSS Duration (dynamic) 191 191 191	2 Students with IEPs 49 672 8,030	4 Total IEP Enrollment (dynamic) 32,802 32,802 32,802	Risk Ratio (CCEIS) 0.00 0.51 3.46
	11 Ethnicity America Asian O Black, N Hispani	y ın Indian Or Alaskan Native r Pacific Islander on-Hispanic c	1 Students with > 10 days OSS Duration 0 2 101 40	3 Total Students with > 10 Days OSS Duration (dynamic) 191 191 191 191	2 Students with IEPs 49 672 8,030 12,949	4 Total IEP Enrollment (dynamic) 32,802 32,802 32,802 32,802 32,802	Risk Ratio (CCEIS) 0.00 0.51 3.46 0.41
	11 Ethnicity America Asian O Black, N Hispanii Multirac	y In Indian Or Alaskan Native r Pacific Islander on-Hispanic c tial	1 Students with > 10 days OSS Duration 0 2 101 40 9	3 Total Students with > 10 Days OSS Duration (dynamic) 191 191 191 191 191	2 Students with IEPs 49 672 8,030 12,949 1,860	4 Total IEP Enrollment (dynamic) 32,802 32,802 32,802 32,802 32,802 32,802 32,802	Risk Ratio (CCEIS) 0.00 0.51 3.46 0.41 0.82
	11 Ethnicity America Asian O Black, N Hispani Multirat White, N	y In Indian Or Alaskan Native r Pacific Islander on-Hispanic c tial Non-Hispanic	1 Students with > 10 days OSS Duration 0 2 101 40 9 39	3 Total Students with > 10 Days OSS Duration (dynamic) 191 191 191 191 191	2 Students with IEPs 49 672 8,030 12,949 1,860 9,242	4 Total IEP Enrollment (dynamic) 32,802 32,802 32,802 32,802 32,802 32,802 32,802 32,802	Risk Ratio (CCEIS) 0.00 0.51 3.46 0.41 0.82 0.65



- Create new measures for each building block of calculation
- Be careful with context of measure: where you place it matters
- This approach helps with traceability and testing
- Use good naming conventions

School Enrolled	\sim
All	\sim
School Number	\sim
All	\sim
School Type	~
All	\sim
Grade Level	~

		CC	EIS Risk	Gap
~ ~	Ethnicity	Enrollment (Overall)	Students with > 10 days OSS Duration (Overall)	Studer (ESE)
\sim	American Indian Or Alaskan Native	382	0	
~	Asian Or Pacific Islander	9,734	2	6
	Black, Non-Hispanic	44,268	101	8,0
\sim	Hispanic	77,906	40	12,9
~	Multiracial	13,043	9	1,8
	White, Non-Hispanic	67,114	39	9,2
\sim	Total	212,447	191	32,8

Students

49

672

8.030

12,949

1,860

9,242

32,802

Students >

10 days OSS

Duration

(ESE)

0

0

30

10

2

13

55

Students

(GenEd)

333

9,062

36.238

64,957

11,183

57,872

179,645

Students :

10 days OSS

Duration

(GenEd)

0

2

71

30

7

26

136

Ethnicity Student Student **Risk Ratio** Risk Ratio Student Enrollment Enrollment (CCEIS) Enrollment Composition Composition Composition (ESE) 4B ESE GenEd % (> 10 Days % (> 10 Days % (> 10 Days OSS Overall) OSS ESE) OSS GenEd) American Indian Or Alaskan Native 0.2% 0.2% 0.1% 0.0% 0.0% 0.0% 0.00 0.00 Asian Or Pacific Islander 4.6% 2.0% 5.0% 1.096 0.0% 1.5% 0.00 0.51 Black, Non-Hispanic 20.8% 24.5% 20.2% 52.9% 54.5% 52.2% 4.93 3.46 Hispanic 36.7% 39.5% 36.2% 20.9% 18.2% 22.1% 1.02 0.41 Multiracial 6.1% 5.7% 6.2% 4.7% 3 696 5.1% 1.42 0.82 White, Non-Hispanic 31.6% 28.2% 32.2% 20.4% 23.6% 19.1% 1.86 0.65 Total 100.0% 100.0% 100.0% 100.0% 100.0% 2.21 100.0%

Hillsborough County BLIC SCHOOLS Preparing Students for Life

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CCEIS District Committee: Cross Divisional Team

ESE District Leadership

Cohort Schools: 15 schools

Elementary Principals

Middle School Principals

High School Principals

ESE Specialists



Updated Equity Profile

All	~	IEP Status Active IEP General Education	Enrollment Count 32,802 179,645	Students with OSS Incidents 1,788 5,702	OSS Incident Count 2,923 8,302	SE Risk (Guiding Ques for all student % Enrollment 15.4% 84.6%	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.9% 76.1%	of Schoo mes equitable Referral Ratio (OSS) 5 1.93 5 0.52	Referral Rate (OSS) 0.09 0.05	Guiding Qu disparities? Risk Ratio (OSS) 1.72 0.58	(OSS) estion 2: How Diff in Student Composition (OSS) 8.43 -8.43	big are the Diff in OSS Comp 10.60 -10.60	OSS Composition 26.0% 74.0%	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)
All	~	IEP Status Active IEP	Enrollment Count 32,802	Students with OSS Incidents 1,788	OSS Incident Count 2,923	SE Risk (Guiding Ques for all student % Enrollment 15.4%	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS) 23.9%	of Schoo mes equitable Referral Ratio (OSS)	Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS) 1.72	(OSS) Hestion 2: How Diff in Student Composition (OSS) 8.43	big are the Diff in OSS Comp 10.60	OSS Composition 26.0%	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)
All	~	IEP Status	Enrollment Count	Students with OSS Incidents	OSS Incident Count	SE Risk (Guiding Quess for all student % Enrollment	Gap - Out tion 1: Are outcor groups? Student Composition % (OSS)	of Schoo mes equitable Referral Ratio (OSS)	Referral Rate (OSS)	Guiding Qu disparities? Risk Ratio (OSS)	(OSS) Hestion 2: How Diff in Student Composition (OSS)	big are the Diff in OSS Comp	OSS Composition	Guiding Question How much of your target group is affected by disproportionate discipline? Risk (OSS)
ЫI	~				E	Guiding Ques	Gap - Out tion 1: Are outcor groups?	of Schoo	ol Suspe	Guiding Qu disparities?	(OSS) restion 2: How	big are the		Guiding Question How much of your target group is affected by disproportionate discipline?
LII.	~				E	SE Risk (5ap - Out	of Schoo	ol Suspe	nsions	(OSS)			Guiding Question How much of your target group is affected by
rade Lever														
irade Level														
All	\sim	Total	212,447	20,872	60,738	100.0%	100.0%	0.00	0.29	0.75	0.0	0.0	100.0%	9.
chool Type	~	Active IEP General Education	32,802	4,181	14,173	15.4%	20.0%	1.67	0.43	1.37	4.6	7.9	23.3%	12.
ul	\sim			Incidents			(ODR)				Composition (ODR)	Comp		
chool Number		IEP Status	Enrollment Count	Students with	Incident Count	% Enrollment	Student Composition %	Referral Ratio (ODR)	Referral Rate (ODR)	Risk Ratio (ODR)	Diff in Student	Diff in Referral	Referral Composition	Risk (ODR)
	~					Guiding Ques for all student	tion 1: Are outcon groups?	nes equitable		Guiding Qu disparities?	estion 2: How	big are the		discipline?
														How much of your target group is affected by

Building Data Based On Root Cause Analysis

- What data do we need to address the root cause as a district?
- What data do schools need to address their root cause?
- What data do schools need to impact student outcomes?

Hillsborough County PUBLIC SCHOOLS Preparing Students for Life

Ethnicity Black, Non-Hispanic Hispanic White, Non-Hi...

Discipline Assignment By Staff



5K

Incidents

0K

5K

Incident Total

0K

Hillsborough County PUBLIC SCHOOLS 70 Preparing Students for Life

Incident Type

All

Current School

V

V

 \vee

V

All

Equity Profile Data

Cohort 1: Equity Profile for ODR's for SWD's

Year	HS 1	MS 1	MS 2	HS 2
End of quarter 3 2020	2.32	1.63	1.51	1.47
End of quarter 3 2021	1.42	.87	1.28	1.49
End of school year 2021	1.35	.81	1.11	1.41



Equity Profile Data

Cohort 1: Equity Profile for OSS's for SWD's

Year	HS 1	MS1	MS2	H2S
End of quarter 3 2020	3.09	2.35	2.16	1.46
End of quarter 3 2021	1.40	.88	1.42	2.27
End of school year 2021	1.25	.69	1.22	1.69




