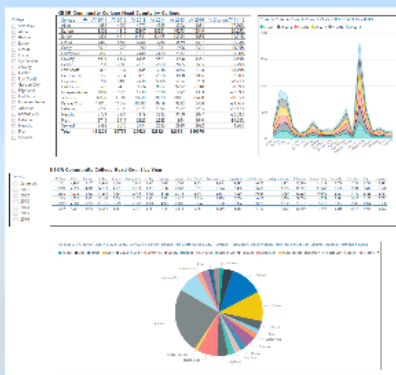




# Displaying Data for the Non-Technical Audience (Power BI for Canvas and Banner)



**Why Power BI**

It is the most advanced Microsoft Business Intelligence solution available. It is easy to learn and use, and it is easy to integrate with other Microsoft products. It is also easy to share and collaborate on reports.

**3 Styles of Data**

Visual style, Interactive style, and Embedded style.

**3 Types of Connections**

DirectQuery, Import, and Live.

**CAUTION**  
**Power BI is complex**

You will get confused between web, desktop, and mobile versions. It is not a simple tool. It is a complex tool. It is a tool that requires a lot of learning and practice.

**Ways to get Power BI**

1. Download the Power BI Desktop application from the Microsoft Store or the Microsoft website.

2. Use the Power BI mobile app on your smartphone or tablet.

3. Use the Power BI web interface in your browser.

**Power BI Desktop**

Download from Microsoft Store or Microsoft website.

Requirements: Windows 10, 64-bit, 4GB RAM, 1.5GB free disk space.

**Power BI Mobile**

Download from the App Store or Google Play Store.

Requirements: iOS 11.0 or later, or Android 5.0 or later.

**Power BI Web**

Access reports and dashboards from any browser.

Requirements: Internet Explorer 11, Microsoft Edge, or Google Chrome.

**Power BI Embedded**

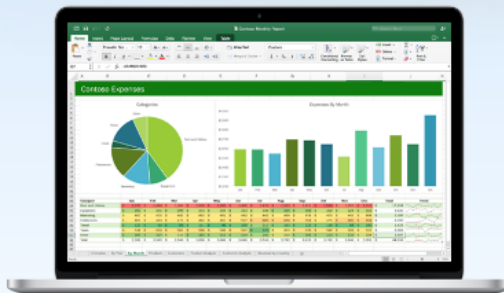
Integrate Power BI reports and dashboards into your application.

Requirements: .NET, Java, or JavaScript.

**Power BI Embedded**

Integrate Power BI reports and dashboards into your application.

Requirements: .NET, Java, or JavaScript.



# Why Power BI

In the past Institutional Research has produced data in numerous ways, lots of spreadsheets, access reports, coded reports. Although our employees are computer literate, using these types of reports has not enabled users to quickly sort and use data.

Power BI has given us a user interface, which appears to help most users quickly interpret data.

When we build Power BI Visualizations we try to anticipate all the questions a user might have and build the filters to sort and answer those questions. Example: Board of Trustees Meetings



# 3 Styles of Data

## Live Banner Data Feed

A screenshot of a data table with multiple columns and rows, representing a live banner data feed.

## Static Excel Data



## Semi Live Canvas Feed

A screenshot of a data table with multiple columns and rows, representing a semi-live canvas feed.

## 3 Types of Connections

A screenshot of a web form for configuring a connection, with various input fields and a 'Get' button.A screenshot of a web form for configuring a connection, with various input fields and a 'Get' button.A screenshot of a web form for configuring a connection, with a 'Get' button and a right-pointing arrow.

# 3 St

# Live Banner Data Feed

**Live Data Feed - Enrollments and Credit Hours**

Term Code	Venue	Venue Codes	Subject Code	Term	Venue	SUBJ	CRSE	CRN	InstMethod	Enrolled	TotalHours	Status
<input type="checkbox"/> Select All	<input type="checkbox"/> Select A.	3-Chase	<input type="checkbox"/> Select All	201702	3	SOCI	1100	29040	ECOMP	8.00	24.00	S
<input type="checkbox"/> (Blank)	<input type="checkbox"/> 3	9-Manhattan	<input type="checkbox"/> ACCT	201702	9	WGHT	9000	28950	F2F	14.00	0.00	A
<input type="checkbox"/> 201201	<input type="checkbox"/> 9	A-Barton Co. Campus	<input type="checkbox"/> AGRI	201702	9	WGHT	9000	28961	F2F	9.00	0.00	A
<input type="checkbox"/> 201202	<input type="checkbox"/> A	AB-Emporia	<input type="checkbox"/> ANTH	201702	9	WGHT	9000	29201	F2F	13.00	0.00	A
<input type="checkbox"/> 201203	<input type="checkbox"/> AP	AD-Hessston	<input type="checkbox"/> ARTS	201702	9	WGHT	9000	29307	F2F	20.00	0.00	A
<input type="checkbox"/> 201301	<input type="checkbox"/> AQ	AF-Hutchinson	<input type="checkbox"/> AUTO	201702	9	WGHT	9000	29311	F2F	29.00	0.00	A
<input type="checkbox"/> 201302	<input type="checkbox"/> AS	AI-Pratt	<input type="checkbox"/> BSTD	201702	9	WGHT	9001	29378	F2F	8.00	0.00	A
<input type="checkbox"/> 201303	<input type="checkbox"/> AS	AO-Holton	<input type="checkbox"/> BUSI	201702	9	WGHT	9001	29300	F2F	7.00	0.00	A
<input type="checkbox"/> 201401	<input type="checkbox"/> AW	AP-MLT Clinic	<input type="checkbox"/> CHEM	201702	9	WGHT	9001	29310	F2F	27.00	0.00	A
<input type="checkbox"/> 201402	<input type="checkbox"/> AY	AQ-Other (NonCredit)	<input type="checkbox"/> CHLD	201702	9	WGHT	9001	29379	F2F	10.00	0.00	A
<input type="checkbox"/> 201403	<input type="checkbox"/> C	AS-Fort Leavenworth	<input type="checkbox"/> COMM	201702	9	WGHT	9001	29436	F2F	19.00	0.00	A
<input type="checkbox"/> 201404	<input type="checkbox"/> D	AT-Topeka	<input type="checkbox"/> CORR	201702	9	WGHT	9002	29225	F2F	8.00	0.00	A
<input type="checkbox"/> 201501	<input type="checkbox"/> E	AU-Wichita		201702	9	WGHT	9002	29306	F2F	10.00	0.00	A
<input type="checkbox"/> 201502	<input type="checkbox"/> F	AV-Hudson		201702	9	WGHT	9002	29309	F2F	22.00	0.00	A
<input type="checkbox"/> 201503	<input type="checkbox"/> G	C-Claffin		201702	9	WGHT	9002	29380	F2F	1.00	0.00	A
<input type="checkbox"/> 201601	<input type="checkbox"/> H	D-Ellinwood	<input type="checkbox"/> InstMethod	201702	9	WGHT	9002	29435	F2F	9.00	0.00	A
<input type="checkbox"/> 201602	<input type="checkbox"/> J	E-Ellsworth	<input type="checkbox"/> Select All	201702	9	WGHT	9003	28960	F2F	3.00	0.00	A
<input type="checkbox"/> 201603	<input type="checkbox"/> K	F-Fort Riley	<input type="checkbox"/> ECBOL	201702	9	WGHT	9003	28963	F2F	0.00	0.00	C
<input type="checkbox"/> 201701	<input type="checkbox"/> L	G-Junction City	<input type="checkbox"/> ECHYB	201702	9	WGHT	9003	29223	F2F	9.00	0.00	A
<input type="checkbox"/> 201702	<input type="checkbox"/> M	H-Rozel	<input type="checkbox"/> ECOMP	201702	9	WGHT	9003	29226	F2F	8.00	0.00	A
<input type="checkbox"/> 201703	<input type="checkbox"/> N	K-Larned	<input type="checkbox"/> EDUK	201702	9	WGHT	9004	29308	F2F	10.00	0.00	A
<input type="checkbox"/> 201703	<input type="checkbox"/> O	L-Lyons	<input type="checkbox"/> F2F	201702	A	ACCT	1602	20117	ECHYB	21.00	63.00	S
	<input type="checkbox"/> P	M-Hays		201702	A	ACCT	1614	24254	ECOMP	23.00	69.00	S
	<input type="checkbox"/> Q	MC-Mobile Classroom		201702	A	ACCT	1614	26785	ECHYB	8.00	24.00	S
	<input type="checkbox"/> R	Q-Otis		201702	A	ACCT	1616	23875	ECHYB	14.00	42.00	S
	<input type="checkbox"/> S	R-Russell		201702	A	ACCT	1616	26784	ECHYB	9.00	27.00	A
	<input type="checkbox"/> T	S-St. John		201702	A	ACCT	1618	23877	ECHYB	26.00	78.00	A
	<input type="checkbox"/> U	T-Bushfren		201702	A	AGRI	1105	24263	ECOMP	7.00	21.00	S
	<input type="checkbox"/> V	U-Victoria		201702	A	AGRI	1108	24636	ECOMP	7.00	21.00	S
	<input type="checkbox"/> W	V-Wilson		201702	A	AGRI	1110	25649	ECOMP	14.00	42.00	S
	<input type="checkbox"/> X	VC-BARTonline/EduKan		201702	A	AGRI	1115	25339	ECOMP	14.00	70.00	S
	<input type="checkbox"/> Y	W-Great Bend		201702	A	AGRI	1120	26282	ECOMP	8.00	24.00	S
		X-Salina		201702	A	AGRI	1123	26281	ECOMP	8.00	24.00	S
				201702	A	AGRI	1125	24262	ECOMP	4.00	12.00	S
				201702	A	AGRI	1128	26648	ECOMP	4.00	12.00	S
				201702	A	AGRI	1180	29305	F2F	7.00	7.00	A

# Live Data Feed - Enrollments and Credit Hours

<b>Term Code</b> <input type="checkbox"/> Select All <input type="checkbox"/> (Blank) <input type="checkbox"/> 201201 <input type="checkbox"/> 201202 <input type="checkbox"/> 201203 <input type="checkbox"/> 201301 <input type="checkbox"/> 201302 <input type="checkbox"/> 201303 <input type="checkbox"/> 201401 <input type="checkbox"/> 201402 <input type="checkbox"/> 201403 <input type="checkbox"/> 201501 <input type="checkbox"/> 201502 <input type="checkbox"/> 201503 <input type="checkbox"/> 201601 <input type="checkbox"/> 201602 <input type="checkbox"/> 201603 <input type="checkbox"/> 201701 <input checked="" type="checkbox"/> 201702 <input type="checkbox"/> 201703	<b>Venue</b> <input type="checkbox"/> Select A... <input type="checkbox"/> 3 <input type="checkbox"/> 9 <input type="checkbox"/> A <input type="checkbox"/> AP <input type="checkbox"/> AQ <input type="checkbox"/> AS <input type="checkbox"/> AW <input type="checkbox"/> AX <input type="checkbox"/> AY <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> V <input type="checkbox"/> VC <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y	<b>Venue Codes</b> 3-Chase 9-Manhattan A-Barton Co. Campus AB-Emporia AD-Hesston AF-Hutchinson AI-Pratt AO-Holton AP-MLT Clinic AQ-Other (NonCredit) AS-Fort Leavenworth AT-Topeka AU-Wichita AV-Hudson C-Clafin D-Ellinwood E-Ellsworth F-Fort Riley G-Junction City H-Rozel K-Larned L-Lyons M-Hays MC-Mobile Classroom Q-Otis R-Russell S-St. John T-Bushton U-Victoria V-Wilson VC-BARTonline/EduKan W-Great Bend X-Salina Y-Hoisington Z-Camp Aldrich	<b>Subject Code</b> <input type="checkbox"/> Select All <input type="checkbox"/> ACCT <input type="checkbox"/> AGRI <input type="checkbox"/> ANTH <input type="checkbox"/> ARTS <input type="checkbox"/> AUTO <input type="checkbox"/> BSTC <input type="checkbox"/> BUSI <input type="checkbox"/> CHEM <input type="checkbox"/> CHLD <input type="checkbox"/> COMM <input type="checkbox"/> CORR	<b>InstMethod</b> <input type="checkbox"/> Select All <input type="checkbox"/> ECBOL <input type="checkbox"/> ECHYB <input type="checkbox"/> ECOMP <input type="checkbox"/> EDUK <input type="checkbox"/> F2F	<b>Status</b> <input type="checkbox"/> Select All <input type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> R <input type="checkbox"/> S	<b>ClassType</b> <input type="checkbox"/> Select All <input type="checkbox"/> (Blank) <input type="checkbox"/> BBI <input type="checkbox"/> BPO <input type="checkbox"/> KBI <input type="checkbox"/> KPO	<b>Status</b> A-Active C-Cancelled N-Not Counted State Aid R-Active ITV S-State Aid Certified
--	---	---	---	---	--	---	--

<b>Term Code</b> 01-Fall 02-Spring 03-Summer
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Term	Venue	SUBJ	CRSE	CRN	InstMethod	Enrolled	TotalHours	Status
201702	3	SOCI	1100	29040	ECOMP	8.00	24.00	S
201702	9	WGHT	9000	28950	F2F	14.00	0.00	A
201702	9	WGHT	9000	28961	F2F	9.00	0.00	A
201702	9	WGHT	9000	29301	F2F	13.00	0.00	A
201702	9	WGHT	9000	29307	F2F	20.00	0.00	A
201702	9	WGHT	9000	29311	F2F	29.00	0.00	A
201702	9	WGHT	9000	29378	F2F	8.00	0.00	A
201702	9	WGHT	9001	28962	F2F	9.00	0.00	A
201702	9	WGHT	9001	29300	F2F	7.00	0.00	A
201702	9	WGHT	9001	29310	F2F	27.00	0.00	A
201702	9	WGHT	9001	29379	F2F	10.00	0.00	A
201702	9	WGHT	9001	29436	F2F	19.00	0.00	A
201702	9	WGHT	9002	29225	F2F	8.00	0.00	A
201702	9	WGHT	9002	29306	F2F	10.00	0.00	A
201702	9	WGHT	9002	29309	F2F	22.00	0.00	A
201702	9	WGHT	9002	29380	F2F	1.00	0.00	A
201702	9	WGHT	9002	29435	F2F	9.00	0.00	A
201702	9	WGHT	9003	28960	F2F	3.00	0.00	A
201702	9	WGHT	9003	28963	F2F	0.00	0.00	C
201702	9	WGHT	9003	29223	F2F	9.00	0.00	A
201702	9	WGHT	9003	29226	F2F	8.00	0.00	A
201702	9	WGHT	9004	29308	F2F	10.00	0.00	A
201702	A	ACCT	1602	20117	ECHYB	21.00	63.00	S
201702	A	ACCT	1614	24254	ECOMP	23.00	69.00	S
201702	A	ACCT	1614	26785	ECHYB	8.00	24.00	S
201702	A	ACCT	1616	23875	ECHYB	14.00	42.00	S
201702	A	ACCT	1616	26784	ECHYB	9.00	27.00	A
201702	A	ACCT	1618	23877	ECHYB	26.00	78.00	A
201702	A	AGRI	1105	24263	ECOMP	7.00	21.00	S
201702	A	AGRI	1108	24636	ECOMP	7.00	21.00	S
201702	A	AGRI	1110	26849	ECOMP	14.00	42.00	S
201702	A	AGRI	1115	25339	ECOMP	14.00	70.00	S
201702	A	AGRI	1120	26282	ECOMP	8.00	24.00	S
201702	A	AGRI	1123	26281	ECOMP	8.00	24.00	S
201702	A	AGRI	1125	24262	ECOMP	4.00	12.00	S
201702	A	AGRI	1128	26848	ECOMP	4.00	12.00	S
201702	A	AGRI	1180	29305	F2F	7.00	7.00	A
201702	A	AGRI	1180	29382	F2F	6.00	6.00	A
201702	A	AGRI	1181	20325	F2F	2.00	4.00	S
201702	A	AGRI	1192	29303	F2F	11.00	22.00	S
201702	A	AGRI	1192	29304	F2F	10.00	20.00	S
201702	A	AGRI	1193	29302	F2F	11.00	22.00	S
201702	A	AGRI	1202	29383	F2F	0.00	0.00	A
201702	A	AGRI	1202	29384	F2F	0.00	0.00	A
201702	A	AGRI	1212	28459	ECOMP	8.00	24.00	S
201702	A	AGRI	1212	28953	ECOMP	8.00	24.00	S
201702	A	AGRI	1212	29014	F2F	5.00	15.00	S
201702	A	AGRI	1212	29187	ECOMP	9.00	27.00	A
201702	A	AGRI	1213	25340	ECOMP	0.00	0.00	A
201702	A	AGRI	1216	27420	ECOMP	5.00	15.00	S
<b>Total</b>						<b>14,949.00</b>	<b>43,269.00</b>	

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# Semi Live Canvas Feed

LiveLastActivityDateBartonCanvas  
PAGE 1

sis_user_id	sis_user_id	sortable_name	Year	Quarter	Month	Day	last_login_ip	Year	Quarter	Month	Day	current_login_ip
<input type="checkbox"/> 000000018	000000018	Johnson, Teresa	2017	Qtr 1	January	28	68.103.14.160	2017	Qtr 1	February	2	68.103.14.160
<input type="checkbox"/> 000000032	000000032	Howard, Jane	2017	Qtr 1	February	2	198.248.192.242	2017	Qtr 1	February	6	198.248.192.244
<input type="checkbox"/> 000000122	000000122	Henderson, Ken	2017	Qtr 2	April	1	198.248.204.4	2017	Qtr 2	April	1	198.248.204.4
<input type="checkbox"/> 000000150	000000150	Crowther, Lori	2017	Qtr 1	March	13	198.248.204.206	2017	Qtr 1	March	13	198.248.204.206
<input type="checkbox"/> 000000184	000000184	Engle, Diane	2017	Qtr 1	March	15	198.248.204.12	2017	Qtr 1	March	15	198.248.204.12
<input type="checkbox"/> 000000184	000000212	Glendenning, Brenda	2017	Qtr 2	April	1	164.113.36.9	2017	Qtr 2	April	2	68.103.4.223
<input type="checkbox"/> 000000212	000000230	Fryberger, Vern	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	3	138.210.240.191
	000000236	Furrow, Renetta	2017	Qtr 1	March	30	198.248.192.242	2017	Qtr 1	March	31	198.248.192.242

LiveLastActivityDateByNameBartonCanvas  
PAGE 1

sortable_name	sis_user_id	sortable_name	Year	Quarter	Month	Day	last_login_ip	Year	Quarter	Month	Day	current_login_ip
<input type="checkbox"/> Aalidubaisi, Aziz	000000018	Johnson, Teresa	2017	Qtr 1	January	28	68.103.14.160	2017	Qtr 1	February	2	68.103.14.160
<input type="checkbox"/> Aaljabran, Abdullah	000000032	Howard, Jane	2017	Qtr 1	February	2	198.248.192.242	2017	Qtr 1	February	6	198.248.192.244
<input type="checkbox"/> Abaalkhalil, Fawaz	000000122	Henderson, Ken	2017	Qtr 2	April	1	198.248.204.4	2017	Qtr 2	April	1	198.248.204.4
<input type="checkbox"/> Abalo, Kossivi	000000150	Crowther, Lori	2017	Qtr 1	March	13	198.248.204.206	2017	Qtr 1	March	13	198.248.204.206
<input type="checkbox"/> Abalor, Chane	000000184	Engle, Diane	2017	Qtr 1	March	15	198.248.204.12	2017	Qtr 1	March	15	198.248.204.12
	000000212	Glendenning, Brenda	2017	Qtr 2	April	1	164.113.36.9	2017	Qtr 2	April	2	68.103.4.223



## LiveLastActivityDateBartonCanvas

PAGE 1

sis_user_id	sortable_name	Year	Quarter	Month	Day	last_login_ip	Year	Quarter	Month	Day	current_login_ip
<input type="checkbox"/> 00000018	Johnson, Teresa	2017	Qtr 1	January	28	68.103.14.160	2017	Qtr 1	February	2	68.103.14.160
<input type="checkbox"/> 00000032	Howard, Jane	2017	Qtr 1	February	2	198.248.192.242	2017	Qtr 1	February	6	198.248.192.244
<input type="checkbox"/> 00000122	Henderson, Ken	2017	Qtr 2	April	1	198.248.204.4	2017	Qtr 2	April	1	198.248.204.4
<input type="checkbox"/> 00000150	Crowther, Lori	2017	Qtr 1	March	13	198.248.204.206	2017	Qtr 1	March	13	198.248.204.206
<input type="checkbox"/> 00000184	Engle, Diane	2017	Qtr 1	March	15	198.248.204.12	2017	Qtr 1	March	15	198.248.204.12
<input type="checkbox"/> 00000212	Glendenning, Brenda	2017	Qtr 2	April	1	164.113.36.9	2017	Qtr 2	April	2	68.103.4.223
<input type="checkbox"/> 00000184	Fryberger, Vern	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	3	138.210.240.191
<input type="checkbox"/> 00000212	Furrow, Renetta	2017	Qtr 1	March	30	198.248.192.242	2017	Qtr 1	March	31	198.248.192.242

## LiveLastActivityDateByNameBartonCanvas

PAGE 1

sortable_name	sis_user_id	sortable_name	Year	Quarter	Month	Day	last_login_ip	Year	Quarter	Month	Day	current_login_ip
<input type="checkbox"/> Aaldubaisi, Aziz	00000018	Johnson, Teresa	2017	Qtr 1	January	28	68.103.14.160	2017	Qtr 1	February	2	68.103.14.160
<input type="checkbox"/> Aaljabran, Abdullah	00000032	Howard, Jane	2017	Qtr 1	February	2	198.248.192.242	2017	Qtr 1	February	6	198.248.192.244
<input type="checkbox"/> Abaalkhail, Fawaz	00000122	Henderson, Ken	2017	Qtr 2	April	1	198.248.204.4	2017	Qtr 2	April	1	198.248.204.4
<input type="checkbox"/> Abalo, Kossivi	00000150	Crowther, Lori	2017	Qtr 1	March	13	198.248.204.206	2017	Qtr 1	March	13	198.248.204.206
<input type="checkbox"/> Abaloz, Shane	00000184	Engle, Diane	2017	Qtr 1	March	15	198.248.204.12	2017	Qtr 1	March	15	198.248.204.12
<input type="checkbox"/> Abbas, Zulfiqar	00000212	Glendenning, Brenda	2017	Qtr 2	April	1	164.113.36.9	2017	Qtr 2	April	2	68.103.4.223
<input type="checkbox"/> Abbas, Shoaib	00000230	Fryberger, Vern	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	3	138.210.240.191
<input type="checkbox"/> Abbasi, Terrence	00000236	Furrow, Renetta	2017	Qtr 1	March	30	198.248.192.242	2017	Qtr 1	March	31	198.248.192.242
<input type="checkbox"/> Abbey, Terrence	00000238	Gabelmann, Gillian	2017	Qtr 1	March	28	198.252.15.96	2017	Qtr 1	March	29	198.252.15.96
<input type="checkbox"/> Abbott, Ariel	00000246	Gaunt, Glenna	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	1	198.248.192.242
<input type="checkbox"/> Abbott, Christine	00000300	Kenyon, Nellene	2017	Qtr 1	March	31	198.248.192.251	2017	Qtr 1	March	31	198.248.192.242
<input type="checkbox"/> Abbott, Darla	00000302	Kerns, Connie	2017	Qtr 1	February	9	198.248.204.231	2017	Qtr 1	February	12	68.103.11.84
<input type="checkbox"/> Abbott, Donald	00000316	Finley, Marsha	2015	Qtr 3	August	20	104.235.89.240	2015	Qtr 3	September	5	104.235.66.217
<input type="checkbox"/> Abboud, Adam	00000344	Bradney, Kim	2017	Qtr 1	March	31	174.70.158.51	2017	Qtr 1	March	31	174.70.158.51
<input type="checkbox"/> Abdat, Amer	00000350	Bretches, Sarah	2017	Qtr 1	March	31	198.248.192.251	2017	Qtr 1	March	31	198.248.192.251
<input type="checkbox"/> Abdelaal, Yazeed	00000360	Siebold, Brenda	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	3	69.18.253.53
<input type="checkbox"/> Abdelrehim Ahmed, Ab..	00000394	Bealer, Rick	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 2	April	2	198.248.192.242
<input type="checkbox"/> Abdelrehim Ahmed, M.,	00000734	Shipman, Mark	2017	Qtr 2	April	3	108.219.50.157	2017	Qtr 2	April	3	108.219.50.157
<input type="checkbox"/> Abdulawahab, Fawaz	00000740	Simmons, Elaine	2016	Qtr 4	December	8	198.248.204.51	2017	Qtr 1	March	20	198.248.204.51
<input type="checkbox"/> Abdulaziz, Alsulami	00000888	Kaiser, Michelle	2017	Qtr 1	January	9	198.248.192.122	2017	Qtr 1	February	6	198.248.192.242
<input type="checkbox"/> AbdulElah, AbdulAziz	00000924	Murphy, Carol	2017	Qtr 1	March	31	198.248.192.251	2017	Qtr 1	March	31	198.248.192.242
<input type="checkbox"/> Abdulla, Abdulaziz	00000938	Robinson, Kay	2017	Qtr 1	March	30	198.248.192.242	2017	Qtr 1	March	30	198.248.192.242
<input type="checkbox"/> Abdullah, Hala	00000952	McCaffery, Linda	2017	Qtr 1	March	31	198.248.192.242	2017	Qtr 1	March	31	198.248.192.242
	00000960	Bell, Candice	2017	Qtr 2	April	2	173.22.4.10	2017	Qtr 2	April	2	173.22.4.10





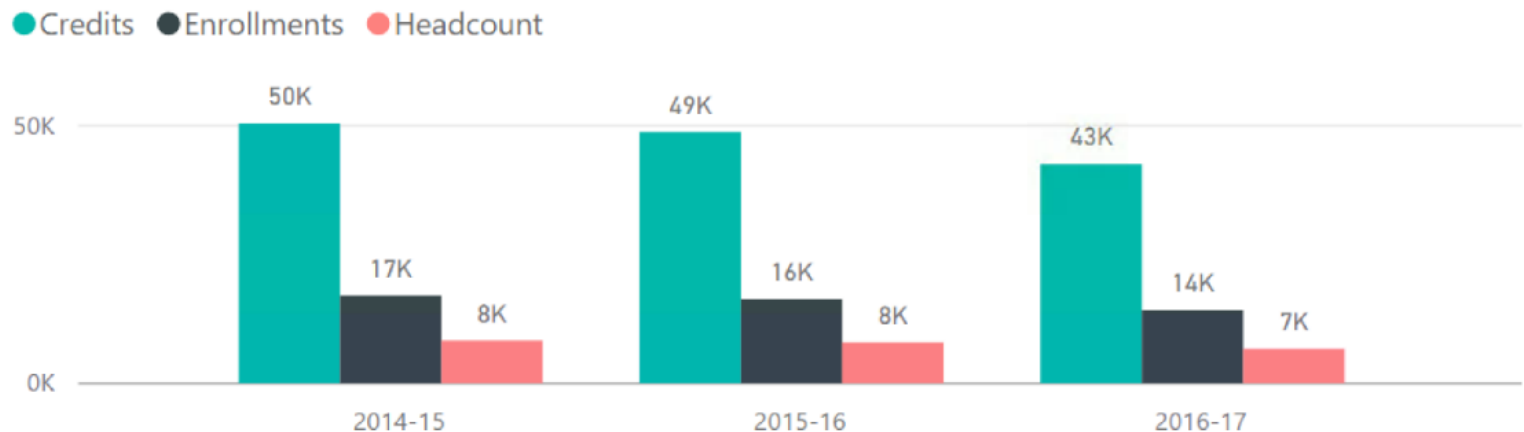
# Static Excel Data

		Point in Time Enrollment						
Location	Year	▲ Term	Location	FTE	Enrollments	Credits	Headcount	
<input type="checkbox"/> Select All	2014-15	Spring 2015	Barton Campus	909	5,090	13,637	1,685	
<input type="checkbox"/> Barton Campus	2014-15	Spring 2015	Bartonline	1,395	6,446	20,928	3,761	
<input type="checkbox"/> Bartonline	2014-15	Spring 2015	Edukan	52	194	780	142	
<input type="checkbox"/> Edukan	2014-15	Spring 2015	Fort Leavenworth	222	1,065	3,329	370	
<input type="checkbox"/> Fort Leavenworth	2014-15	Spring 2015	Fort Riley	783	4,219	11,740	2,359	
<input type="checkbox"/> Fort Riley	2015-16	Spring 2016	Barton Campus	885	4,873	13,273	1,631	
	2015-16	Spring 2016	Bartonline	1,426	6,488	21,397	3,839	
	2015-16	Spring 2016	Edukan	56	207	839	159	
<input type="checkbox"/> Select All	2015-16	Spring 2016	Fort Leavenworth	151	758	2,259	256	
<input type="checkbox"/> Spring 2015	2015-16	Spring 2016	Fort Riley	734	3,999	11,010	2,057	
	2016-17	Spring 2017	Barton Campus	887	4,548	12,300	1,484	

## Point in Time Enrollment

Location	Year ▲	Term	Location	FTE	Enrollments	Credits	Headcount
<input type="checkbox"/> Select All	2014-15	Spring 2015	Barton Campus	909	5,090	13,637	1,685
<input type="checkbox"/> Barton Campus	2014-15	Spring 2015	Bartonline	1,395	6,446	20,928	3,761
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Term	2015-16	Spring 2016	Fort Leavenworth	151	758	2,259	256
<input type="checkbox"/> Select All	2015-16	Spring 2016	Fort Riley	734	3,999	11,010	2,057
<input type="checkbox"/> Spring 2015	2016-17	Spring 2017	Barton Campus	827	4,542	12,398	1,484
<input type="checkbox"/> Spring 2016	2016-17	Spring 2017	Bartonline	1,195	5,453	17,925	3,228
<input type="checkbox"/> Spring 2017	2016-17	Spring 2017	Edukan	44	166	667	126
	2016-17	Spring 2017	Fort Leavenworth	164	785	2,463	229
Year	2016-17	Spring 2017	Fort Riley	605	3,255	9,078	1,635
<input type="checkbox"/> Select All	<b>Total</b>				<b>47,540</b>	<b>141,7...</b>	<b>22,961</b>
<input type="checkbox"/> 2014-15							
<input type="checkbox"/> 2015-16							
<input type="checkbox"/> 2016-17							

## Credits, Enrollments and Headcount by Year





ADD DATA SOURCE

▼ ampowerbi

Banner

bartoncanvas



Test all connections

## Data Source Settings

Users

✓ Connection Successful

Data Source Name

Banner

Data Source Type

Oracle

Server

prod

Authentication Method

Basic

The credentials are encrypted using the key stored on-premises on the gateway server. [Learn more](#)

Username

.....

Password

.....

> Advanced settings

Apply

Discard

▼ ampowerbi

Banner

bartoncanvas

...

Test all connections

## Data Source Settings

Users

✓ Connection Successful

Data Source Name

bartoncanvas

Data Source Type

MySQL

Server

blmysql5.bartonccc.edu

Database

canvas\_data

Authentication Method

Basic

The credentials are encrypted using the key stored on-premises on the gateway server. [Learn more](#)

Username

.....

Password

.....

> Advanced settings

Apply

Discard

## Files

Bring in your reports, workbooks, or data from Excel, Power BI Desktop or CSV files.

Get

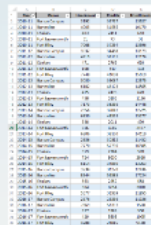




# CAUTION MASS CONFUSION

You will get confused between web, desktop, personal gateway, enterprise gateway, ODBC connectors and excel spreadsheet.

We recommend starting with a simple excel spreadsheet with only one table.  
Once you put in your data then do a CTRL/CMD + T to create a table and name the table.  
You need a very clean finished spreadsheet before creating your table.



1	2	3	4	5
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
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100	100	100	100	100

**CAUTION**

**MASS**

**CONFUSION**

**CAUTION**

**MASS  
CONFUSION**

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Once you put in your data then do a CTRL/CMD + T to create a table and name the table.

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Year	Name	Employees	Salary	Earnings
2008-01	Baron Capital	3152	35072	11057
2008-01	Baronbank	4283	11541	4929
2008-01	Edi Aan	485	2461	68
2008-01	Net Leasemovers	25	28	25
2008-01	Net Wip	7063	37224	12214
2008-01	Baron Capital	3317	6248	1213
2008-02	Baronbank	4262	20211	5219
2008-02	Edi Aan	473	2700	65
2008-02	Net Leasemovers	286	146	120
2008-02	Net Wip	7149	4118	1213
2008-02	Baron Capital	2222	2287	2222
2008-02	Baronbank	4182	4032	3093
2008-02	Edi Aan	556	2476	84
2008-02	Net Leasemovers	496	307	129
2008-02	Net Wip	7174	2824	3498
2008-02	Baron Capital	2093	2294	2253
2008-02	Baronbank	4693	4692	2217
2008-02	Edi Aan	298	221	68
2008-02	Net Leasemovers	614	662	2297
2008-02	Net Wip	4860	2020	1213
2008-03	Baron Capital	2494	2022	1212
2008-03	Baronbank	7770	5278	2025
2008-03	Edi Aan	886	248	84
2008-03	Net Leasemovers	720	690	222
2008-03	Net Wip	8123	2488	2022
2008-03	Baron Capital	2323	2170	2212
2008-03	Baronbank	8142	4688	2722
2008-03	Edi Aan	562	222	58
2008-03	Net Leasemovers	186	202	202
2008-03	Net Wip	5277	2184	1225
2008-07	Baron Capital	2076	2028	1212
2008-07	Baronbank	7469	2187	122
2008-07	Edi Aan	337	180	50
2008-07	Net Leasemovers	628	688	122
2008-07	Net Wip	4283	2493	503

	A	B	C	D	E
1	Year	Venue	Headcount	Credits	Enrollments
2	2010-11	Barton Campus	3192	35757	13527
3	2010-11	Bartonline	4003	31565	10170
4	2010-11	Edukan	403	2411	610
5	2010-11	Fort Leavenworth	31	73	31
6	2010-11	Fort Riley	7068	37294	13596
7	2011-12	Barton Campus	3032	34488	13173
8	2011-12	Bartonline	4815	38131	12176
9	2011-12	Edukan	471	2769	693
10	2011-12	Fort Leavenworth	108	410	133
11	2011-12	Fort Riley	7748	41008	15619
12	2012-13	Barton Campus	3030	33067	12575
13	2012-13	Bartonline	6182	46123	14565
14	2012-13	Edukan	415	2476	620
15	2012-13	Fort Leavenworth	458	3205	1136
16	2012-13	Fort Riley	7173	38356	14448
17	2013-14	Barton Campus	2656	32841	12225
18	2013-14	Bartonline	6830	48593	15277
19	2013-14	Edukan	338	2011	499
20	2013-14	Fort Leavenworth	616	6682	2197
21	2013-14	Fort Riley	6806	38160	14119
22	2014-15	Barton Campus	2636	30812	11452
23	2014-15	Bartonline	7770	52796	16305
24	2014-15	Edukan	359	2284	570
25	2014-15	Fort Leavenworth	724	8630	2828
26	2014-15	Fort Riley	6114	34880	13053
27	2015-16	Barton Campus	3234	31270	12436
28	2015-16	Bartonline	8544	56585	17224
29	2015-16	Edukan	363	2252	558
30	2015-16	Fort Leavenworth	504	6054	2018
31	2015-16	Fort Riley	5577	31969	11855
32	2016-17	Barton Campus	2576	29256	11136
33	2016-17	Bartonline	7869	51397	1560
34	2016-17	Edukan	327	1985	500
35	2016-17	Fort Leavenworth	429	5808	1905
36	2016-17	Fort Riley	4288	24816	9138
37					



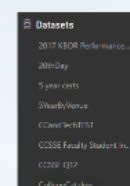
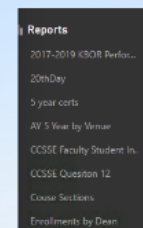
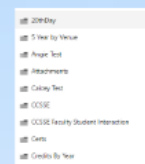
# Ways to get Power BI

Ask your IT department. Most likely Power BI is already part of your colleges Microsoft Office 365 package.

Also, you get a free installation of Power BI for 30/60 days during your testing phase. Be aware there are 2 types of Power BI licenses - Regular and Pro. Also there are 2 types of programs - Power BI Desktop and PowerBI Cloud.

When doing a static spreadsheet use the Power BI Cloud and One Drive. Before you start we recommend you decide on a naming convention because you will have the file saved.

- Local or Shared drive
- Folder on One Drive to hold the file
- Name of File inside the folder
- Name of Dataset
- Name of Report



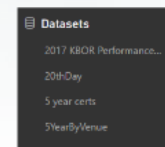
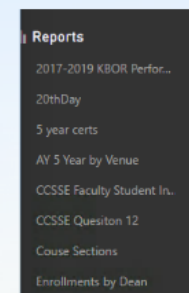
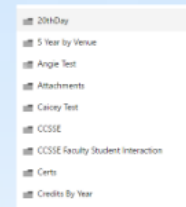


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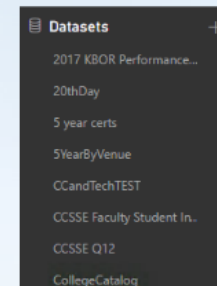
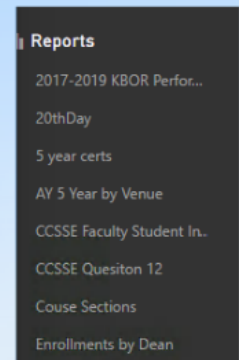
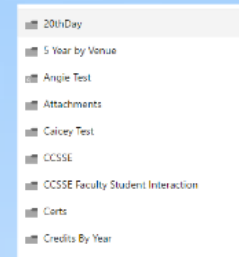
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 20thDay 5 Year by Venue Angie Test Attachments Caicey Test CCSSE CCSSE Faculty Student Interaction Certs Credits By Year

## ■ Reports

2017-2019 KBOR Perfor...

20thDay

5 year certs

AY 5 Year by Venue

CCSSE Faculty Student In..

CCSSE Quesiton 12

Couse Sections

Enrollments by Dean

 **Datasets** 

2017 KBOR Performance...

20thDay

5 year certs

5YearByVenue

CCandTechTEST

CCSSE Faculty Student In..


CCSSE Q12

CollegeCatalog




Demo - Excel Static  
NCCBP Data  
Requires: Power BI Web

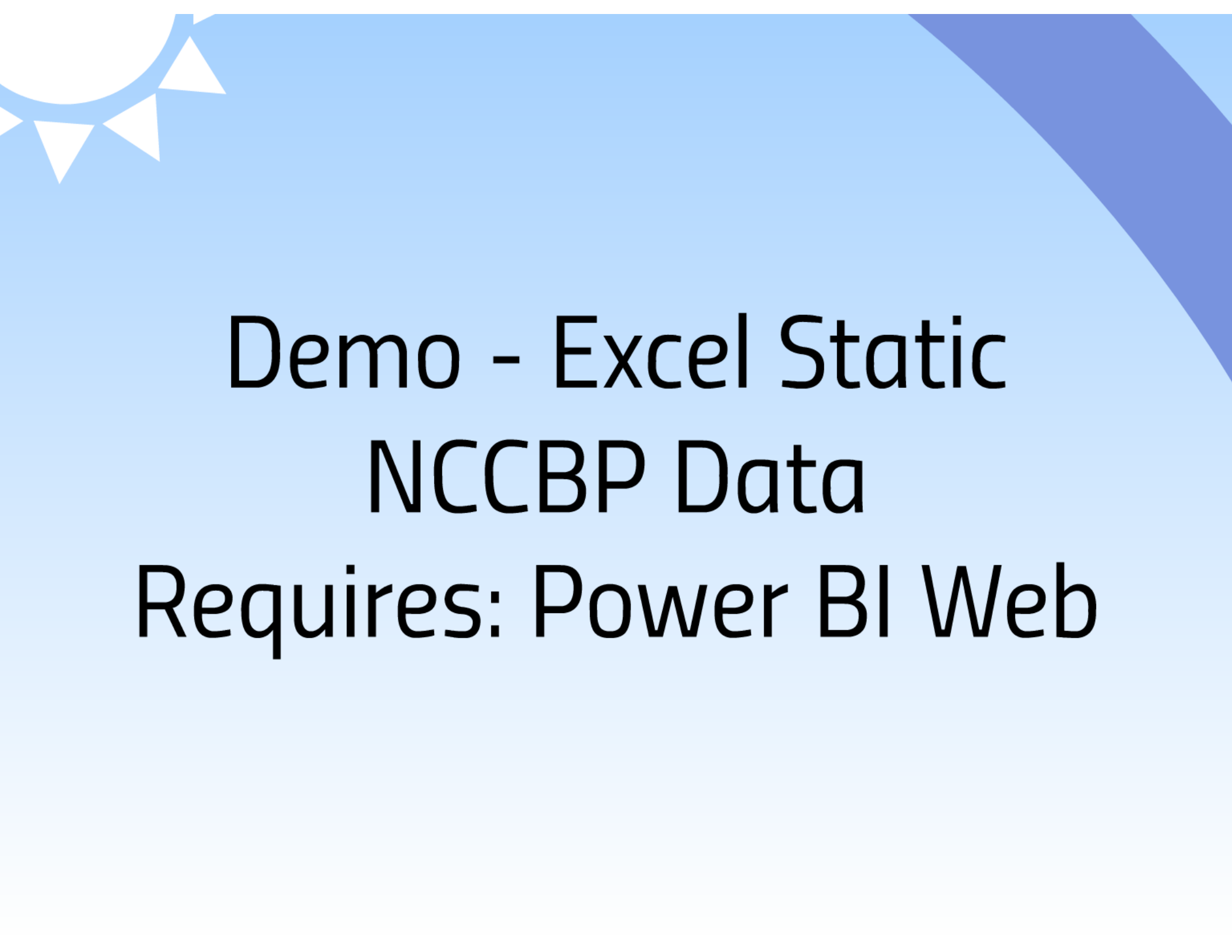
Demo - Live Data (Oracle)  
Requires: Power BI Pro  
License, Dedicated  
Microsoft Server  
(Gateway), ODBC  
connection, Power BI  
Desktop

Demo Canvas Data, Amazon  
Redshift, MySQL database  
Requires: Power BI Pro,  
Personal Gateway, ODBC  
(Redshift and MySQL), Power  
BI Desktop, Aspirin or 



Demo - Live Data (Oracle)  
Requires: Power BI Pro  
License, Dedicated  
Microsoft Server  
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(Redshift and MySQL), Power  
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# Demo - Excel Static NCCBP Data

Requires: Power BI Web

## Publishing

Static - Excel - Power BI Report - Web

Static - Excel - Power BI Report - Dashboard - Office 365 Users

Live Data Feed - Microsoft Gateway Server - Oracle Database - Power BI Desktop -  
Power BI Report - Web

Live Data Feed - Microsoft Gateway Server - Power BI Desktop - Power BI Report -  
Dashboard - Office 365 Users

Canvas - Microsoft Personal Gateway - Amazon Redshift - Power BI Desktop -  
Power BI Report - Web

## Publishing

Static - Excel - Power BI Report - Web

Static - Excel - Power BI Report - Dashboard - Office 365 Users

Live Data Feed - Microsoft Gateway Server - Oracle Database - Power BI Desktop - Power BI Report - Web

Live Data Feed - Microsoft Gateway Server - Power BI Desktop - Power BI Report - Dashboard - Office 365 Users

Canvas - Microsoft Personal Gateway - Amazon Redshift - Power BI Desktop - Power BI Report - Web

### **Tips**

- Files/Folder/Visualization/Titles - naming is critical
- Remember your purpose which is clear easy to read data
- Decide color(0177C1)/boxes/titles etc... customizations ahead of time
- Create a index excel spreadsheet
- Use transpose in Excel
- Be careful who are logged in as
- Use shared accounts - irpowerbi@bartonccc.edu
- Use shared desktops
- ODBC naming conventions are important (Document)
- Power BI Visualizations do print clearly
- We limit the use of Visualization charts and stick to data
- We adjust page size by pixels because web designers like pixels
- Data auto sums when using table some data will not look correctly until you shut of summing
- Be careful if you are click happy
- You can drag and drop values
- Give feedback Microsoft is responsive, but not always helpful

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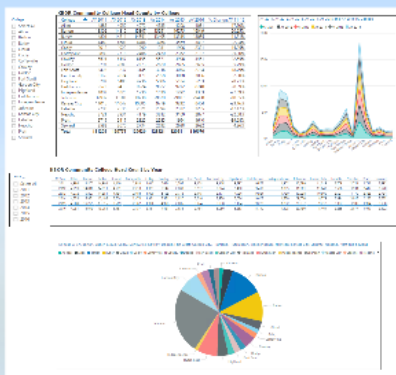
Questions ?

Caicey Crutcher - [crutcherc@bartonccc.edu](mailto:crutcherc@bartonccc.edu)

Angie Hicks - [hicksa@bartonccc.edu](mailto:hicksa@bartonccc.edu)



# Displaying Data for the Non-Technical Audience (Power BI for Canvas and Banner)



**Why Power BI**

It is the most advanced Microsoft Business Intelligence solution available. It is easy to learn and use, and it is the only solution that can handle all your data. It is the only solution that can handle all your data. It is the only solution that can handle all your data.

**3 Styles of Data**

Visual style: Canvas, Report, Dashboard

**3 Types of Connections**

DirectQuery, Import, Live

**CAUTION**  
Be very complex

You will get confused between web, desktop, and mobile. You will get confused between web, desktop, and mobile. You will get confused between web, desktop, and mobile.

**Ways to get Power BI**

1. Download Power BI Desktop from the Microsoft Store or the Power BI website.

2. Use the Power BI mobile app on your smartphone or tablet.

3. Use the Power BI service on the web.

**DirectQuery**

DirectQuery: Live Data Refresh  
Requires: Power BI Pro, Live Connection, (Optional) D365 connector, Power BI Desktop

**Import**

Import: Power BI Desktop, Azure, Redshift, MSSQL, database, BigQuery, Power BI Pro, Power BI Gateway, D365, Power BI and MySQL, Power BI Gateway, Access, etc.

**Power BI**

Power BI: Power BI Desktop, Power BI Service, Power BI Gateway, Power BI Mobile App, Power BI Report Builder, Power BI Embedded, Power BI Premium, Power BI Embedded Dataflows, Power BI Embedded Analytics, Power BI Embedded Reporting, Power BI Embedded Dashboards, Power BI Embedded Visualizations, Power BI Embedded Reports, Power BI Embedded Dashboards, Power BI Embedded Analytics, Power BI Embedded Reporting, Power BI Embedded Dashboards, Power BI Embedded Visualizations, Power BI Embedded Reports.

**Tip**

Use the Power BI mobile app on your smartphone or tablet. Use the Power BI mobile app on your smartphone or tablet. Use the Power BI mobile app on your smartphone or tablet.

**Desktop**

Desktop: Power BI Desktop, Power BI Service, Power BI Gateway, Power BI Mobile App, Power BI Report Builder, Power BI Embedded, Power BI Premium, Power BI Embedded Dataflows, Power BI Embedded Analytics, Power BI Embedded Reporting, Power BI Embedded Dashboards, Power BI Embedded Visualizations, Power BI Embedded Reports.

