# PIVOT TABLE CASE STUDIES



### **CASE STUDY: IMDB MOVIE DATABASE**

#### **DATASET SUMMARY:**

 Movie titles, attributes, budgets and revenues from the Internet Movie Database (IMDb), 1920-2015

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** Title, Release Date, Color/B&W, Genre, Language, Country, Rating, Lead Actor, Director Name
- Measures: Lead Actor FB Likes, Cast FB Likes, Director FB Likes, Movie FB Likes, IMDb Score, Total Reviews, Duration (min), Gross Revenue, Budget

#### **CONCEPTS COVERED:**

- Number Formatting & Conditional Formats
- Sorting, Filtering & Grouping
- Calculated Values & Fields
- PivotCharts

4	Α		В		2	D	E	F	G	Н		I	
	Title		se Date	Color/B&W		Genre	Language	Country	Rating	Lead Actor	Directo		
	Over the Hill to the Poorh			Black and V		Crime	English	USA	Not Rate			Millarde	
	Metropolis	1/26/		Black and V		Drama	German	Germany	Not Rate	-	Fritz Lar	-	
	The Broadway Melody		1/1929	Black and V		Musical	English	USA	Passed	Anita Page		eaumont	
	42nd Street	8/29/		Black and V		Comedy	English	USA	Unrated	Ginger Rogers			
	Top Hat	4/15/		Black and V		Comedy	English	USA	Approve				
	Modern Times Snow White and the Seve	10/7/		Black and V Color	vnite	Comedy	English	USA		Paulette Gode  Adriana Casel			
	Snow White and the Seven Dwarfs 2/2/1937 Gone with the Wind 11/12/19			Color		Animation Drama	-	USA	Approve	Hattie McDar			
-	Gone with the Wind 11/12/19 The Wizard of Oz 4/9/1939 Fantasia 5/18/194 Pinocchio 10/12/19			Black and V	Vhito.	Adventure	English English	USA	Passed	Margaret Har			
				Color	vilite	Animation		USA	G	Leopold Stoke			
				Color		Animation	_	USA	Approve			Ferguson	
	Duel in the Sun			Color		Drama	English	USA	Unrated	Joseph Cotte			
	The Best Years of Our Live		6/7/1946 4/26/1946		Vhite	Drama	English	USA	Not Rate		William		
	The Lady from Shanghai	12/7		Black and V		Crime	English	USA	Not Rate				
	The Pirate	]		K		1	M	N		O	P	Q	
17	Annie Get Your Gun	1 1 A ED 1	ikas Ca		Director	r FB Likes	Movie FB Likes	IMDb Score	(1-10)	Total Reviews	Duration (min		Budget
18	The Greatest Show on Ea	Lead Actor FB I	ikes ca	St FD LIKES	0	FD LIKES	0	4.8		1	110	3000000	_
19	The Beast from 20,000 Fa				-		-			_			100000
20	The Robe	136	20		756		12000	8.3		260	145	26435	600000
21	On the Waterfront	77	10		4		167	6.3		36	100	2808000	379000
22	Seven Samurai	610	99	5	24		439	7.7		65	89	2300000	439000
23	The Bridge on the River K	610	82	4	10		1000	7.8		66	81	3000000	609000
24	Some Like It Hot	309	35	2	0		0	8.6		120	87	163245	150000
25	Psycho	82	22	9	0		0	7.7		145	83	184925485	200000
26	West Side Story	503	18	62	149		16000	8.2		157	226	198655278	397700
	Dr. No	695	25	09	149		14000	8.1		213	102	22202612	280000
	Lawrence of Arabia	16	16		11		3000	7.8		99	120	76400000	228000
	Cleopatra	1000	11		3		0	7.5		105	88	84300000	260000
	From Russia with Love	400	20		54		403	6.9		32	144	20400000	800000
31	It's a Mad, Mad, Mad, Ma	749	19		355		0	8.1		97	172	23650000	210000
		1000	10		0		0	7.7		90	92	7927	230000
		89	28		136		359	7.1		41	102	2956000	370000
								7.1		21			
		277	73		24		456				107	8000000	376878
		232	82		309		625	6.7		44	152	36000000	400000
		57	20		7		465	6.7		67	80	5000000	210000
		726	19		28		0	6.8		42	135	36000000	500000
		10000	11	094	603		0	8.2		134	108	9600000	910000
		304	33	8	0		11000	8.7		153	202	269061	200000
		682	10	35	767		0	8.2		122	161	27200000	300000
		105	52	7	0		10000	8.3		181	120	25000000	288384
		606	18	85	13000		18000	8.5		290	108	32000000	806947
		804	18		34		0	7.6		120	152	43650000	600000
		650	14		92		5000	7.3		184	110	16067035	110000
		607	10		767		11000	8.4		181	227	6000000	150000
		007	10	70	707		11000	0.4		101	441	0000000	130000

n=3,725



# CASE STUDY: U.S. VOTERS (2012)

#### **DATASET SUMMARY:**

• 2012 population and voter registration data from the U.S. Census Bureau, by state and age group

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** State, Age
- Measures: Total Population, Citizen Population, Registered Voters, Confirmed Voters

#### **CONCEPTS COVERED:**

- Calculated Fields
- Value Settings (% of Column, % of Parent)

	А	В	С	D	E	F
1	State	Age	Total Population	Citizen Population	Registered Voters	Confirmed Voters
2	Alabama	18 to 24	439000	428000	212000	155000
3	Alabama	25 to 34	576000	535000	359000	271000
4	Alabama	35 to 44	615000	582000	410000	330000
5	Alabama	45 to 64	1297000	1275000	1051000	939000
6	Alabama	65+	667000	660000	523000	459000
7	Alaska	18 to 24	63000	61000	31000	20000
8	Alaska	25 to 34	109000	103000	70000	46000
9	Alaska	35 to 44	86000	80000	60000	50000
10	Alaska	45 to 64	186000	182000	144000	122000
11	Alaska	65+	72000	69000	55000	51000
12	Arizona	18 to 24	586000	545000	301000	234000
13	Arizona	25 to 34	859000	709000	399000	289000
14	Arizona	35 to 44	870000	713000	437000	382000
15	Arizona	45 to 64	1656000	1502000	1015000	901000
16	Arizona	65+	892000	846000	659000	606000
17	Arkansas	18 to 24	288000	281000	126000	70000
18	Arkansas	25 to 34	362000	336000	194000	140000
19	Arkansas	35 to 44	357000	341000	234000	205000
20	Arkansas	45 to 64	742000	704000	498000	442000
21	Arkansas	65+	449000	448000	324000	267000
22	California	18 to 24	3962000	3479000	1787000	1447000
23	California	25 to 34	5357000	4153000	2548000	2070000
24	California	35 to 44	5030000	3675000	2478000	2118000
25	California	45 to 64	9356000	7827000	5459000	4926000
26	California	65+	4653000	4284000	3084000	2902000
27	Colorado	18 to 24	493000	461000	278000	259000
28	Colorado	25 to 34	693000	602000	411000	363000
29	Colorado	35 to 44	684000	616000	484000	452000
30	Colorado	45 to 64	1354000	1287000	1025000	989000
31	Colorado	65+	593000	577000	437000	432000



# **CASE STUDY:** SAN FRANCISCO SALARIES

#### **DATASET SUMMARY:**

 Salary information from San Francisco government employees, 2011-2013

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** Employee Name, Year, Employee ID, Job Title
- **Measures:** Base Pay, Overtime Pay, Other Pay

#### **CONCEPTS COVERED:**

- Sorting & Filtering
- Grouping
- Calculated Fields
- Table Layouts

1	Α	В	С	D	E	F	G	Н
1	Employee Name	Year	Employee ID	Job Title	Base Pay	Overtime Pay	Other Pay	Total Pay
2	A Bernard Fatooh	2011	29354	Sheriff'S Property Keeper	19969.37	0	70.54	20039.91
3	Aaric Pingree	2011	72817	Carpenter	0	0	100	100
4	Aarom Peverill	2013	34121	Public Service Aide-Special Programs	3202.14	0	64.19	3266.33
5	Aaron Obenyah	2012	105528	Publ Svc Aide-Asst To Prof	11577	0	0	11577
6	Aaron Richmond	2011	109147	Public Svc Aide-Public Works	2175.41	0	46.36	2221.77
7	Aaron A Hipolito	2011	105697	Museum Guard	10954.9	0	0	10954.9
8	Aaron C Ballonado	2011	78262	Police Officer 3	123471.15	8199.27	4905.3	136575.72
9	Aaron Chapman	2012	17857	Senior Physician Specialist	47885.61	0	20922.67	68808.28
LO	Aaron D Lynch	2011	83567	Deputy Sheriff	87296.9	3265.58	13043.07	103605.55
1	Aaron Del Tredici	2011	41201	Physician Specialist	124568.92	0	3492	128060.92
12	Aaron Dunn	2013	13278	Transit Operator	65196.68	16571.53	2189.42	83957.63
3	Aaron E Vurek	2011	88715	Roofer	79136.84	883.8	2220	82240.64
4	Aaron Golbus	2012	51577	Wharfinger 2	78365.51	0	0	78365.51
L5	Aaron H Freifeld	2012	105486	Recreation Leader	11757.37	0	64.44	11821.81
16	Aaron Hipolito	2011	68705	Museum Guard	10233.46	70.35	0	10303.81
17	Aaron J Cox	2012	107637	Public Svc Aide-Public Works	5723.62	0	0	5723.62
18	Aaron Loukonen	2013	52003	Special Nurse	85759.06	2505.87	14044.74	102309.67
19	Aaron Lozada	2012	38631	Sergeant 3	135967.46	16677.69	6370.85	159016
20	Aaron M Chen	2012	87533	Automotive Service Worker	64312.21	11361.2	12291.21	87964.62
21	Aaron M Del Tredici	2011	79047	Physician Specialist	129528.39	0	3600	133128.39
22	Aaron Patterson	2011	67426	Ps Aide Health Services	15131.57	0	0	15131.57
23	Aaron S Cramer	2013	79248	Registered Nurse	115372.35	8546.13	6484.78	130403.26
24	Aaron S Duran	2011	91293	Automotive Mechanic	73376.2	568.85	1998.63	75943.68
25	Aaron Sher	2011	33429	Public Service Aide-Assistant To Professionals	4666.32	0	0	4666.32
26	Aaron Smith	2012	41965	Is Engineer-Senior	115747.23	0	6329.79	122077.02
27	Aaron T Dunn	2013	86464	Transit Operator	68552.52	17182.65	2598.21	88333.38
28	Aaron Wu	2012	28292	Public Service Aide-Assistant To Professionals	27511.25	0	0	27511.25
29	Abayomi B Ikutiminu	2013	96696	Inspector, Weights & Measures	56641	0	540	57181
30	Abby Burg	2013	27362	Criminalist Ii	35189	0	0	35189

n=24,285



# **CASE STUDY: SHARK ATTACK RECORDS**

#### **DATASET SUMMARY:**

Shark attack records from 1900-2016

#### **DIMENSIONS & MEASURES:**

- Dimensions: Case Number, Date, Type, Country, Area, Location, Activity, Name, Gender, Age, Injury, Fatal (Y/N), Species, Investigator or Source
- Measures: None

#### **CONCEPTS COVERED:**

- Date Grouping
- Value Settings (% of Column, Running Total)
- PivotCharts

1	А	В	С		D	E			F		G	
1	Case Number	Date	Type		Country	Area	Location	n			Activity	
2	1900.01.28	1/28/1900	Unprovoked		Australia	New South Wales	Lane Co	ve River, Sy	dney Harbor (	Estuary	Standing, gathering oyster	
3	1900.07.00	7/1/1900	Provoked		USA	Connecticut	Bridgepo	ort, Fairfield	d County			
4	1900.07.14	7/14/1900	Invalid		USA	Hawaii	Makapu	'u Point, O'	ahu		Hunting seashells	
5	1900.07.31	7/31/1900	Unprovoked		Croatia	Primorje-Gorski Kotar Count	t Volosko	, Opatija			Swimming	
6	1900.08.21	8/21/1900	Unprovoked		USA	North Carolina	Southpo	rt, Brunswi	ck County		Bathing	
7	1900.09.05	9/5/1900 Unprovoked			USA	Hawaii	Waikiki I	Beach, Oah	u		Floating	
8	1900.09.13	9/13/1900 Unprovoked			USA	Rhode Island	Codding	ton Cove			Diving	
9	1900.09.15	9/15/1900 Unprovoked			Australia	Queensland	Townsvi	ille			Swimming	
10	1900.10.27				South Africa	Western Cape Province	Woodst	ock Beach,	Cape Town		Swimming	
11	1900.11.14	11/14/1900	Unprovoked		South Africa	Western Cape Province		nchor Bay	•		Swimming	
12	1900.12.27	12/27/1900	Unprovoked		Australia	New South Wales		Harbour, Sy	dnev		Bathing	
13	1901.01.30	1/30/1901	Unprovoked		Australia	Queensland	Brisbane		,		Bathing	
	1901.06.24		Н	I	J	К		L	M		,	
15		Name		Gende	r Age	Injury		Fatal (Y/N)	Species	Invest	igator or Source	
	1901.07.17	Charles Duck		М	Unknown	Right posterior thigh bitten		N		Povert	ty Bay Herald, 2/12/1900	
	1901.07.30	skiff with Dr. W	illiam T. Healey,	M	Unknown	No injury to occupants. They shot s	shark, the	N		Times	, 8/1/1900	
L7 L8		Emil Uhlbrecht & unidentified p M		М	Unknown	Believed drowned. Uhlbrecht's foo				Los Angeles Times, 7/28/1900		
	1901.10.00	male		М	Unknown	FATAL	Y			C. Mo	ore, GSAF	
	1901.12.01	Burris		М	Unknown	Left hand lacerated	and lacerated			C. Cre	swell, GSAF	
	1902.01.19	Joe Hartman		M	Unknown	Bathing suit torn & "imprints of the	e shark's t(N Hon			Honol	ulu Republican, 9/6/1900	
	1902.01.19 1902.01.19.R	George Brown		M	Unknown	No injury		N		NY Times, 9/14/1900		
		John Hennessy		M	Unknown	Laceration to right leg	N		Sydney Morning Herald, 9/17/1900			
23		Amos Layzell		М	Unknown	Probable drowning & scavenging	Y		P. Logan; M. Levine, GSAF			
24		William Stratho	orn	M	30	FATAL, legs severed	Υ			P. Log	an; M. Levine, GSAF	
	1902.04.00	Thomas Housta	an	M	Unknown	FATAL		Υ		Tarana	aki Herald, 12/28/1900	
26		John Thompsor	า	M	Unknown	Thigh bitten, FATAL		Υ		Otago	Witness, 2/6/1901	
	1902.06.02	S. McKie, appre	ntice 1st class o	M	Unknown	Left thigh stripped of flesh 4" above	e the knee	N		J.A. Gu	uthrie; Sun, 7/13/1913; V.M. Coppleson, p.264	
28		boy		M	Unknown			N		The G	raphic, 6/29/1901	
	1902.07.15	Antonio Tornat	ori	M	20	Disappeared, but shark involvemen	nt unconfi	Υ		C. Mo	ore	
30	1902.08.08	John Hendrick A	Adrian Chandler,	M	29	Right leg bitten & foot severed, righ	ht arm bit	Y	White shark	M. Lev	vine, GSAF	
		male		M	Unknown	FATAL, bitten on arms, chest & legs	S	Y	2 m shark	Barda	nis citing Embros, 9/23/1901	
		Dahkus, a Molu	issa Moro	M	Unknown	Right thigh bitten		N		J.A. Gu	uthrie, M.D.; Newark Advocate, 5/24/1902; V.	
		William Quince		M	10	Lacerations to torso & thigh		N		The Ar	rgus, 12/2/1901	
		Charles Jones		M	16	Legs bitten		N		Brisba	ne Courier, 1/20/1902	
		a soldier from t	he Natal Garrisc	М	Unknown	Possible drowning & scavenging. Re	emains we	Υ		M. Lev	vine, GSAF	
		John Ogier		М	Unknown	FATAL		Y		The Ad	dvertiser, 1/25/1902	
		male		М	Unknown	No injury, hooked shark bit tousers	s. PROVOK	N		The Co	olonist 2/22/1902	
		<b>Neil Sorenson</b>		M	Unknown	Probable drowning & scavenging		Υ		M. Lev	vine, GSAF	
		Giorgos		M	Unknown	Bitten on hand and thigh		N		M. Ba	rdanis	
		Ару		М	Unknown	"Nose hanging by a threat, prints o	f shark's t	N		V.M. 0	Coppleson, p.264	
		Harry M. Speer	man	М	Unknown	Shark bit his left arm after he grabb	bed its tail	N		New Y	ork Times, 7/7/1902	
		male		M	Unknown	Face & arms injured by hooked sha	rk PROVO	N		C. Mo	ore, GSAF	





# **CASE STUDY: STOCK MARKET DATA**

#### **DATASET SUMMARY:**

• 3-month sample of stock market data for 500 publically-traded companies

#### **DIMENSIONS & MEASURES:**

Dimensions: Date, Symbol

• **Measures:** Open, High, Low, Close, Volume

#### **CONCEPTS COVERED:**

- Sorting & Filtering
- Conditional Formatting (Highlight Cells, Data Bars)
- Value Settings (% Difference From)

	Α	В	С	D	Е	F	G
1	Date	Symbol	Open	High	Low	Close	Volume
2	8/21/2009	Α	25.6	25.61	25.22	25.55	34758
3	8/21/2009	AA	12.64	12.73	12.49	12.56	338295
4	8/21/2009	AAPL	167.81	169.37	166.8	169.22	148597
5	8/21/2009	ABC	21.14	21.25	20.9	21.05	33179
6	8/21/2009	ABT	45.58	46	45.315	45.39	84699
7	8/21/2009	ACS	45.08	45.33	44.4	45.32	17241
8	8/21/2009	ADBE	32.49	32.93	32	32.84	51086
9	8/21/2009	ADI	28.21	28.44	27.64	28.42	64696
10	8/21/2009	ADM	28.12	28.75	28.07	28.67	40472
11	8/21/2009	ADP	38.26	39.11	37.8	39.07	41981
12	8/21/2009	ADSK	24.4	24.91	24.14	24.51	38523
13	8/21/2009	AEE	26.58	27.11	26.46	27.05	13171
14	8/21/2009	AEP	31.31	31.65	31.04	31.49	39739
15	8/21/2009	AES	14.04	14.32	13.91	14.26	55350
16	8/21/2009	AET	29.89	30.34	29.38	29.62	60724
17	8/21/2009	AFL	40.56	42.2	40.3	41.87	58637
18	8/21/2009	AGN	55.71	56.24	55	55.43	19968
19	8/21/2009	AIG	34.42	35	32.53	32.85	493973
20	8/21/2009	AIV	11.46	12.06	11.41	11.95	36058
21	8/21/2009	AIZ	28.51	29.33	28.51	29.24	8827
22	8/21/2009	AKAM	18.07	18.5	17.955	18.42	44253
23	8/21/2009	AKS	20.75	21.12	20.724	20.87	53273
24	8/21/2009	ALL	28.22	28.77	27.85	28.63	39759
25	8/21/2009	ALTR	19.36	19.5	19.15	19.48	54580
26	8/21/2009	AMAT	13.53	13.75	13.32	13.74	159825
27	8/21/2009	AMD	3.53	3.71	3.51	3.7	201395
28	8/21/2009	AMGN	60.71	61.01	59.7	60.64	66052
29	8/21/2009	AMP	29.25	29.87	29	29.82	23186
30	8/21/2009	AMT	33.19	33.47	32.85	33.12	31521
31	8/21/2009	AMZN	84.88	85.06	83.54	85	61312

n=29,440



# **CASE STUDY:** BASEBALL TEAM STATS

#### **DATASET SUMMARY:**

 Major League Baseball team statistics by season, 1995-2015

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** Season Start, Year, League, Team (Short), Team (Full), Division, DivWin, WCWin, LgWin, WSWin
- **Measures:** G, W, L, RS, AB, H, 2B, 3B, HR, BB, SO, SB, CS, RA, ER, ERA, CG, SHO, SV

#### **CONCEPTS COVERED:**

- Sorting & Filtering
- PivotCharts & Slicers
- Calculated Fields

		В	С	D			E		F	G	H	I	J						
Season Star	t Year		League	Team (	Shor Te	am (Full)		Divi	ision Di	ivWin	WCWin	LgWin	WSWi	n					
4/1/1995	1995		NL	ATL	Atl	lanta Brav	es	E	Y		N	Y	Y						
4/1/1995	1995		AL	BAL	Ba	ltimore Or	ioles	E	N		N	N	N						
4/1/1995	1995		AL	BOS	Во	ston Red S	Sox	E	Y		N	N	N						
4/1/1995	1995		AL	CAL	Ca	lifornia An	gels	W	N		N	N	N						
4/1/1995	1995		AL	CHA	Ch	icago Whi	te Sox	С	N		N	N	N						
4/1/1995	1995		NL	CHN	Ch	icago Cub	s	С	N		N	N	N						
4/1/1995	1995		NL	CIN	Cir	ncinnati Re	eds	С	Y		N	N	N						
4/1/1995	1995		AL	CLE	Cle	eveland Inc	dians	С	Υ		N	Υ	N						
4/1/1995	1995		NL	COL	Co	lorado Ro	ckies	W	N		Υ	N	N						
4/1/1995	1995		AL	DET		troit Tiger		Е	N		N	N	N						
4/1/1995	1995		NL	FLO		rida Marli		E	N		N	N	N						
4/1/1995	1995		NL	HOU		uston Astr		C	N		N	N	N						
4/1/1995	1995		AL	KCA		nsas City F		С	N		N	N	N						
4/1/1995	1995		NL	LAN		s Angeles I		W	Y		N	N	N						
4/1/1995	1995		AL	MIN		nnesota T	_	C	N		N	N	N						
4/1/1995	1995		AL	ML4		lwaukee B		C	N		N	N	N						
4/1/1995 3 4/1/1995	1995		NL	MON		ontreal Ex		E	N		N	N	N						
	K	L	M	N	O	P	Q	R	S	Т	U	V	W	X	Υ	Z	AA	AB	AC
4/1/1995		w	L	RS	АВ	Н	2B	3B	HR	ВВ	so	SB	cs	RA	ER	ERA	CG	SHO	sv
4/1/1995		90	54	645	4814	1202	210	27	168	520	933	73	43	540	493	3.44	18	11	34
4/1/1995		71	70																
4/1/1995			73	704	4837	1267	229	27	173	574	803	92	45	640	607	4.31	19	10	29
		86	58	791	4997	1399	286	31	175	560	923	92 99	45 44	698	630	4.39	7	10 9	29 39
4/1/1995	145	86 78	58 67	791 801	4997 5019	1399 1390	286 252	31 25	175 186	560 564	923 889	92 99 58	45 44 39	698 697	630 645	4.39 4.52	7	10 9 9	29 39 42
4/1/1995 4/1/1995	145 145	86 78 68	58 67 76	791 801 755	4997 5019 5060	1399 1390 1417	286 252 252	31 25 37	175 186 146	560 564 576	923 889 767	92 99 58 110	45 44 39 39	698 697 758	630 645 692	4.39 4.52 4.85	7 8 12	10 9 9 4	29 39 42 36
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4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995	145 145 144 144 144 144 144	86 78 68 73 85 100 77	58 67 76 71 59 44 67	791 801 755 693 747 840 785	4997 5019 5060 4963 4903 5028	1399 1390 1417 1315 1326 1461	286 252 252 267 277 279	31 25 37 39 35 23	175 186 146 158 161 207	560 564 576 440 519 542	923 889 767 953 946 766	92 99 58 110 105 190 132	45 44 39 39 37 68 53	698 697 758 671 623 607	630 645 692 597 577 554 711	4.39 4.52 4.85 4.13 4.03 3.83	7 8 12 6 8 10	10 9 9 4 12 10	29 39 42 36 45 38 50
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4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1996	145 145 144 144 144 144 143 144 144 144 144 144	86 78 68 73 85 100 77 60 67 76 70 78 56 65 66 79 69	58 67 76 71 59 44 67 84 76 68 74 66 88 79 78	791 801 755 693 747 840 785 654 673 747 629 634 703 740 621 749 657	4997 5019 5060 4963 4903 5028 4994 4865 4886 5097 4903 4942 5005 5000 4905 4947 4958	1399 1390 1417 1315 1326 1461 1406 1204 1278 1403 1275 1303 1398 1329 1268 1365 1323	286 252 252 267 277 279 228 214 260 240 191 270 249 265 280 218	31 25 37 39 35 23 43 29 29 29 22 35 31 34 42 24 34	175 186 146 158 161 207 200 159 144 109 119 140 120 128 118 1122 125	560 564 576 440 519 542 484 551 517 566 475 468 471 502 400 625 446	923 889 767 953 946 766 943 916 992 849 1023 916 800 901 851	92 99 58 110 105 190 132 125 73 131 176 120 127 105 105 120 50 58	45 44 39 39 37 68 53 59 36 53 60 53 45 57 40 49 30 39	698 697 758 671 623 607 783 844 673 674 691 609 889 747 638 688 618	630 645 692 597 577 554 711 778 610 595 643 527 814 689 586 651	4.39 4.52 4.85 4.13 3.83 4.97 5.49 4.27 4.06 4.49 3.66 5.76 4.82 4.11 4.56 3.88	7 8 12 6 8 10 1 5 12 6 11 16 7 7 7	10 9 9 4 12 10 10 11 3 7 8 10 11 12 4 9 9	29 39 42 36 45 38 50 43 38 29 32 37 37 27 31 42 35 36
4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1996	145 145 144 144 144 144 143 144 144 144 144 144	86 78 68 73 85 100 77 60 67 76 70 78 56 65 66 79 69 67	58 67 76 71 59 44 67 76 68 74 66 88 79 78 65 77	791 801 755 693 747 840 785 654 673 747 629 634 703 740 621 749 657	4997 5019 5060 4963 4903 5028 4994 4865 4886 5097 4903 4942 5005 5000 4905 4947 4958 4916	1399 1390 1417 1315 1326 1461 1406 1204 1278 1403 1275 1303 1398 1329 1268 1365 1323 1296	286 252 252 267 277 279 259 228 214 260 240 191 270 249 265 280 218 228	31 25 37 39 35 23 43 29 29 22 35 31 34 42 24 34 34	175 186 146 158 161 207 200 159 144 109 119 140 120 128 118 122 125 169	560 564 576 440 519 542 484 551 517 566 475 468 471 502 400 625 446 565	923 889 767 953 946 766 943 987 916 992 849 1023 916 800 901 851 994 911	92 99 58 110 105 190 132 125 73 131 176 120 127 105 105 105 120 50 58 111	45 44 39 37 68 53 59 60 53 60 53 45 57 40 49 30 39 46	698 697 758 671 623 607 783 844 673 691 609 889 747 638 668 618	630 645 692 597 577 554 711 778 610 595 643 527 814 689 586 651 557 697	4.39 4.52 4.85 4.13 3.83 4.97 5.49 4.27 4.06 5.76 4.82 4.11 4.56 3.88 4.93	7 8 12 6 8 10 1 1 5 5 12 6 11 16 7 7 7 7 18 9 8	10 9 9 4 12 10 10 13 7 8 10 11 12 4 9 5 9	29 39 42 36 45 38 50 43 38 29 32 37 37 27 31 42 35 36 34
4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1995 4/1/1996	145 145 144 144 144 144 143 144 144 144 144 144	86 78 68 73 85 100 77 60 67 76 70 78 56 65 66 79 69 67 69	58 67 76 71 59 44 67 84 76 68 74 66 88 79 78 65 77	791 801 755 693 747 840 785 654 673 747 629 634 703 740 621 749 657 730 615	4997 5019 5060 4963 4903 5028 4994 4865 4886 5097 4903 4942 5005 5000 4905 4947 4958 4916	1399 1390 1417 1315 1326 1461 1406 1208 1403 1275 1303 1329 1268 1365 1323 1296 1296	286 252 252 267 277 279 259 228 214 260 240 191 270 249 265 280 218 228 228	31 25 37 39 35 23 43 29 22 35 31 34 42 24 34 34 34 30	175 186 146 146 158 161 207 200 159 144 109 119 140 120 128 118 122 125 169 94	560 564 576 440 519 542 484 551 517 566 475 468 471 502 400 625 446 565 497	923 889 767 953 946 766 943 987 916 992 849 1023 916 800 901 851 991 884	92 99 58 110 105 190 132 125 73 131 176 120 127 105 105 105 105 112 50 58 1112 72	45 44 39 37 68 53 59 36 53 60 53 45 57 40 49 30 39	698 697 758 671 623 607 783 844 673 691 699 889 747 638 688 688 761 658	630 645 692 597 577 554 711 778 610 595 643 527 814 689 586 651 557 697 603	4.39 4.52 4.85 4.13 4.03 3.83 4.97 5.49 4.27 4.06 4.49 3.66 5.76 4.82 4.11 4.56 3.88 4.93 4.21	7 8 12 6 8 10 1 1 5 12 6 11 16 7 7 7 7 7 18 9 8	10 9 9 4 12 10 10 1 3 7 8 10 11 2 4 9 5 9 4 8	29 39 42 36 45 38 50 43 38 29 32 37 37 27 31 42 35 36 34
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	145 144 144 144 144 144 144 144 144 144	86 78 68 73 85 100 77 60 67 76 70 78 56 65 66 79 69 67 69	58 67 76 71 59 44 67 84 76 68 74 66 88 79 78 65 77	791 801 755 693 747 840 785 654 673 747 629 634 703 740 621 749 657 730 615	4997 5019 5060 4963 4903 5028 4994 4865 4886 5097 4903 4942 5005 5000 4905 4947 4958 4916	1399 1390 1417 1315 1326 1461 1406 1208 1403 1275 1303 1329 1268 1365 1323 1296 1296	286 252 252 267 277 279 259 228 214 260 240 191 270 249 265 280 218 228 228	31 25 37 39 35 23 43 29 22 35 31 34 42 24 34 34 34 30	175 186 146 146 158 161 207 200 159 144 109 119 140 120 128 118 122 125 169 94	560 564 576 440 519 542 484 551 517 566 475 468 471 502 400 625 446 565 497	923 889 767 953 946 766 943 987 916 992 849 1023 916 800 901 851 991 884	92 99 58 110 105 190 132 125 73 131 176 120 127 105 105 105 105 112 50 58 1112 72	45 44 39 37 68 53 59 36 53 60 53 45 57 40 49 30 39	698 697 758 671 623 607 783 844 673 691 699 889 747 638 688 688 761 658	630 645 692 597 577 554 711 778 610 595 643 527 814 689 586 651 557 697 603	4.39 4.52 4.85 4.13 4.03 3.83 4.97 5.49 4.27 4.06 4.49 3.66 5.76 4.82 4.11 4.56 3.88 4.93 4.21	7 8 12 6 8 10 1 1 5 12 6 11 16 7 7 7 7 7 18 9 8	10 9 9 4 12 10 10 1 3 7 8 10 11 2 4 9 5 9 4 8	29 39 42 36 45 38 50 43 38 29 32 37 37 27 31 42 35 36 34



# **CASE STUDY:** SAN DIEGO BURRITO RATINGS

#### **DATASET SUMMARY:**

Burrito ratings and Yelp reviews from 65
 San Diego restaurants in 2016

#### **DIMENSIONS & MEASURES:**

- Dimensions: Location, Burrito, Date, Recommendation, Reviewer, Notes
- Measures: Yelp Rating, Cost, Tortilla (0-5),
   Temp (0-5), Fillings (0-5), Meat Volume (0-5),
   Uniformity (0-5), Salsa (0-5), Synergy (0-5),
   Wrap Quality (0-5)

#### **CONCEPTS COVERED:**

- Calculating with COUNT
- Summarize Values By (SUM, AVERAGE)
- Show Values As (Rank)
- Conditional Formatting

4	Α		В	С			D	E			F		
1	Location	Burrit	:0	Date		Recomm	endation	Reviewer	Notes				
2	Donato's taco shop	Califo	rnia	1/18/2016				Scott	good fries: 4/5	5			
3	Oscar's Mexican food	Califo	rnia	1/24/2016				Scott	Fries: 3/5; too	little meat			
4	Oscar's Mexican food	Carnit	tas	1/24/2016				Emily					
5	Oscar's Mexican food	Carne	asada	1/24/2016				Ricardo	Go to average	burrito place like Rig	oberto's in la jo	olla; Terrible tamal	es
6	Pollos Maria	Califo	rnia	1/27/2016		Yes		Scott					
7	Pollos Maria	combo	o chicken	1/28/2016				Emily					
8	Nico's Taco Shop	Califo	rnia	1/30/2016		No		Scott	not fries. big p	ootatoes			
9	Nico's Taco Shop	Carnit	tas	1/30/2016				Emily					
0	Los Primos Mexican Food	Monst	ter Californ	ia 2/1/2016				Scott	this tasted rea	ally bad leftover. not i	ncluded in ratir	g	
1	JV's Mexican Food	Carne	Asada	2/6/2016		No		Scott					
	JV's Mexican Food	Surf &		2/6/2016				Emily	Huge. Shrimp	is good. Meat is norm	nal		
	Tony's Fresh Mexican Food	Chile v	verde pork	2/11/2016				Marc				0	
	Tony's Fresh Mexican G		Н	I		J	K		L (2.2)	M	N	0	P /
	Tony's Fresh Mexican Yelp Ratio	_		ortilla (0-5)		ıp (0-5)	Fillings (0	-	t Volume (0-5)	Uniformity (0-5)	Salsa (0-5)	Synergy (0-5)	Wrap Quality (0-5)
	Tony's Fresh Mexican 3.5		.49 3		5		3.5	4		4	4	4	4
	Taco Stand 3.5		.45 2		3.5		2.5	2		4	3.5	2.5	5
	Taco Stand		.85 3		2		3	4.5		4	3	3	5
	Graciela's Taco Shop	5.	.25 3		2		3	4		5	4	4	5
	Graciela's Taco Shop 4	6.	.59 4		5		3.5	4.5		5	2.5	4.5	4
	Rigoberto's Taco Shor	6.	.99 3		4		3.5	2.5		2.5	2.5	4	1
	Rigoberto's Taco Shor 3	7.	.19 2		3		2	2.5		2.5		2	3
	Lolita's taco shop	6.	.99 2	.5	3		2.5	3		3.5		2.5	3
	Taco Stand	9.	.25 2		4.5		3.5	1.5		3	3.5	4	2
	Taco Stand 4	6.	.25 2	.5	1.5		3	4.5		3	1.5	2	4.5
	Lola's 7 Up Market &	9.	.5 2	.5	2.5		2.5	2.5		2	0.5	3	3.5
	Lola's 7 Up Market & 3	6.	.95 3		4		3	4		4	1	2	1
	Colima's Mexican Foo	6.	.25 3		3.5		4	2		3.5	1	4	4
	Colima's Mexican Foo	6.	.99 3		1		2.5	4		4	3	4.5	5
		6.	.25 4				2	4		4		3	4
	4.5		.49 3		2.5		4	3.5		2.5	3.5	5	4.5
			.49 4		4		4	5		4.5	3.5	4	2
	4		.99 4		4		3.5	4		4.5	4	4	4.5
				.5	4			4			4	4	1.5
	2.5		.4 3		4		3	4		2	2		5
	2.0			.5	3		3	4		4	1.5		4.5
	4			.5	2		3.5	4		1	3.5	4.5	4.5
	-			.5	2.5		3.3	4		1.5	2.5	3.5	4.5
			.49 4		3		4	4		4	4	4	3
		/.	4 ر .		2		-	-+		7	3	7	3



# **CASE STUDY:** DAILY WEATHER CONDITIONS

#### **DATASET SUMMARY:**

 Daily weather conditions in Boston, Massachusetts from Jan-Dec 2016

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** Date, Conditions
- Measures: Max Temp (F), Mean Temp (F), Min Temp (F), Max Wind Speed (MPH), Precipitation (in)

#### **CONCEPTS COVERED:**

- Sorting & Filtering
- PivotCharts
- Date Grouping
- Calculating with COUNT

1	Α	В	С	D	Е	F	G
1	Date	Conditions	Max Temp (F)	Mean Temp (F)	Min Temp (F)	Max Wind Speed (MPH)	Precipitation (in)
2	1/1/2016	Clear	41	39	33	32	0
3	1/2/2016	Clear	40	35	31	28	0
4	1/3/2016	Clear	44	36	31	28	0
5	1/4/2016	Clear	36	30	14	28	0
6	1/5/2016	Clear	26	16	8	23	0
7	1/6/2016	Clear	45	30	21	21.9	0
8	1/7/2016	Clear	43	33	26	18.1	0
9	1/8/2016	Clear	42	35	30	23	0
10	1/9/2016	Rain	41	40	38	18.1	0.01
11	1/10/2016	Rain	58	45	38	38.9	1.38
12	1/11/2016	Clear	51	40	25	38	0
13	1/12/2016	Snow	37	29	21	23	0.08
14	1/13/2016	Clear	33	29	21	47	0
15	1/14/2016	Clear	30	24	21	23	0
16	1/15/2016	Clear	42	31	26	17	0
17	1/16/2016	Rain	43	39	34	28	1.22
18	1/17/2016	Snow	38	35	29	21	0.1
19	1/18/2016	Snow	29	27	19	42.9	0.11
20	1/19/2016	Clear	25	20	16	45	0
21	1/20/2016	Clear	33	24	19	38	0
22	1/21/2016	Clear	33	27	21	35.1	0
23	1/22/2016	Clear	32	24	19	31.1	0
24	1/23/2016	Snow	32	29	20	45	0.37
25	1/24/2016	Clear	36	25	18	32	0
26	1/25/2016	Clear	35	31	26	19.9	0



# CASE STUDY: SPARTAN RACE FACEBOOK POSTS

#### **DATASET SUMMARY:**

 Spartan Race Facebook posts from Aug-Oct 2016

#### **DIMENSIONS & MEASURES:**

- **Dimensions:** Page, Date of Post, Post Copy, Link, Post Type, Hour of Post, Time of Day
- Measures: Shares, Reactions, Likes, Comments

#### **CONCEPTS COVERED:**

- Show Values As (% of Column)
- Calculated Fields
- Calculating with COUNT

4	Α	В		С				D					
Page	•	Date of Post	Post Copy					Link					
2 Spart	tan Race	8/30/2016	Find out tomorrow night how the	e sandbag carry will mak	e or break the men's	s elite podium in t	he Penns	https://www.fac	ebook.com	/spa			
3 Spart	tan Race	8/30/2016	Through grit and determination,	fearless battles and triur	nphs, this mountain	has been annoint	ed with	https://www.fac	ebook.com	/spa			
4 Spart	tan Race	8/30/2016	Tune in and work out with Epic A	lexander Nicohlas at Epi	c Hybrid Training fo	r today's "Lunchti	me Wor	https://www.facebook.com/spa					
5 Spart	tan Race	8/30/2016	Q&A with Epic Alexander Nichola	as! Ask about his Lunchti	me Workout routine	or other ways to	get fitne	https://www.facebook.com/spa					
5 Spart	tan Race	8/30/2016	"It's an opportunity to learn from	n [Amanda], to learn tha	Ame	https://www.fac	ebook.com	/spa					
7 Spart	tan Race	8/31/2016	Suns out guns out in Austin, Texa	ins out guns out in Austin, Texas!! Spartan Strong host Evan Dollard talks about explosiveness when									
8 Spart	tan Race	8/31/2016	Alyssa Hawley Grip and rip challe	enge workout! http://sprt	tn.im/WHYIRACE_20	016		https://www.fac	ebook.com	/spa			
9 Spart	tan Race	8/31/2016	There are a few simple do's and	here are a few simple do's and don'ts to avoid ankle pain, on and off the Spartan course.									
0 Spart	tan Race	8/31/2016	Every racer has a story, what's ye	ours? #WHYIRACE http:/	/sprtn.im/WHYIRAC	E_2016		https://www.fac	ebook.com	/spa			
1 Spart	tan Race	8/31/2016	Join Spartan Pro Team member	Cassidy Watton at Epic H	ybrid Training in ou	"Lunchtime Worl	kout" serie	https://www.fac	ebook.com	/spa			
2 Spart	tan Race	8/31/2016	Tired o D	E	F	G	Н	I	J	K			
3 Spart	tan Race	9/1/2016	The ea 1 Link	Post Type	Hour of Post	Time of Day	Shares	Reactions	Likes	Comments			
4 Spart	tan Race	9/1/2016	Meet ( 2 https://www.faceboo	ok.com/spa video	0	Late Night	252	470	444	25			
.5 Spart	tan Race	9/1/2016	Sideline 3 https://www.faceboo	ok.com/spa video	14	Afternoon	129	399	382	18			
.6 Spart	tan Race	9/1/2016	Forget 4 https://www.faceboo	ok.com/spa video	15	Evening	46	416	388	46			
	tan Race	9/1/2016	ASK EP 5 https://www.faceboo	ok.com/spa video	15	Evening	15	202	193	25			
	tan Race	9/1/2016	#AROC 6 https://www.faceboo	ok.com/spa video	23	Late Night	440	1046	879	48			
	tan Race	9/1/2016	IORF - 7 https://www.faceboo	ok.com/spa video	0	Late Night	26	382	358	81			
	tan Race	9/1/2016	0 8 https://www.faceboo	ok.com/spa video	13	Afternoon	73	600	544	105			
	tan Race	9/1/2016	#tbt to 9 http://sprtn.im/2bEW	/vP1 link	14	Afternoon	60	252	246	31			
	tan Race	9/1/2016	Follow 10 https://www.faceboo	ok.com/spa photo	15	Evening	63	604	560	24			
	tan Race	9/1/2016	Coach 11 https://www.faceboo	ok.com/spa video	15	Evening	27	377	353	43			
	tan Race	9/1/2016	Do you 12	status	20	Evening		100	88	86			
	tan Race	9/2/2016	Coach 13 http://apple.co/2c2i0		4	Late Night	14	119	116	7			
	tan Race	9/2/2016	Causin 14 https://www.faceboo		13	Afternoon	28	352	321	45			
	tan Race	9/2/2016	Spartar 15 http://bit.ly/2bbLAH1		14	Afternoon	5	52	50	0			
	tan Race	9/2/2016	Spartal 16 https://www.faceboo		15	Evening	49	278	249	30			
	tan Race	9/2/2016	A-I-C-		16	Evening	5	229	209	42			
	tan Race	9/2/2016	10 IIIIps.//www.faceboo		18	Evening	331	4862	3633	101			
o Spari	tall Nace	3/2/2010	15 Intips.//www.faceboo		18	Evening		7	6	0			
			20 https://www.faceboo		18	Evening		192	188	1			
			21 https://www.faceboo		21	Evening	56	257	239	7			
			22 https://www.faceboo		23	Late Night	129	1236	1178	14			
			23 https://www.faceboo		23	Late Night	28	383	344	43			
			24 https://www.faceboo		23	Late Night	1	727	647	97			
			25 https://www.faceboo		14	Afternoon	34	284	260	34			
			26 https://www.faceboo		15	Evening	9	317	308	6			
			27 https://www.faceboo		15	Evening	10	179	160	38			
			28 https://www.faceboo		15	Evening	23	241	227	16			
			29 https://www.faceboo	ok.com/spa video	16	Evening	10	376	341	41			



