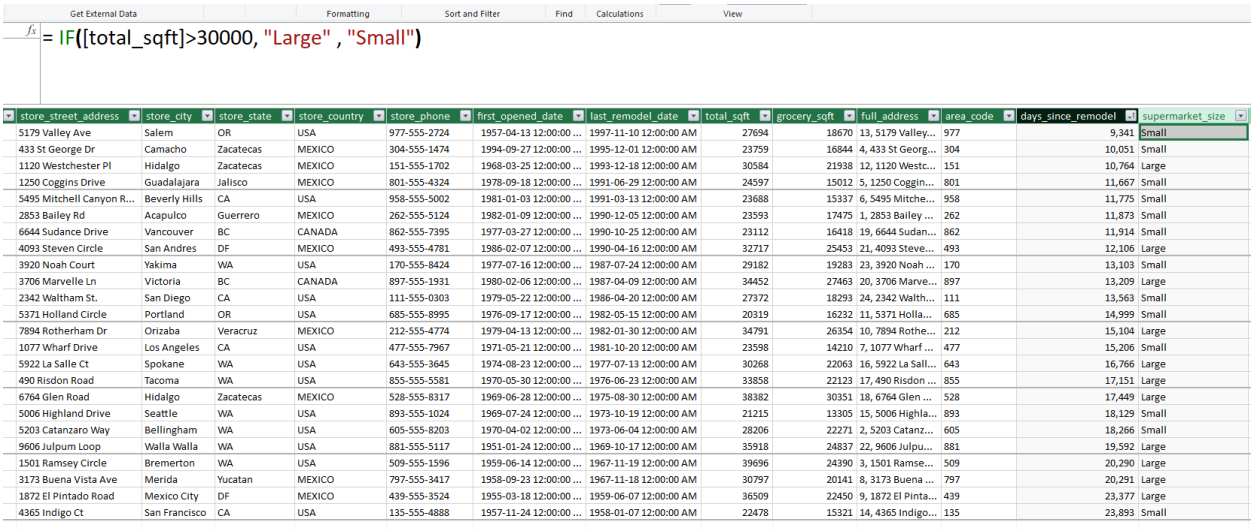
Project Logical & Text Functions

1) Create a calculated column in the **Store_Lookup** table named *supermarket_size* to categorize the size of each supermarket in the table, based on the following logic:

- If *total_sqft* > **30,000** then *supermarket_size* = "**Large**"
- Otherwise *supermarket_size* = "**Small**".



store_street_address	store_city	store_state	store_country	store_phone	first_opened_date	last_remodel_date	total_sqft	grocery_sqft	full_address	area_code	days_since_remodel	supermarket_size
5179 Valley Ave	Salem	OR	USA	977-555-2724	1957-04-13 12:00:00 ...	1997-11-10 12:00:00 AM	27694	18670	13, 5179 Valley...	977	9,341	Small
433 St George Dr	Camacho	Zacatecas	MEXICO	304-555-1474	1994-09-27 12:00:00 ...	1995-12-01 12:00:00 AM	23759	16844	4, 433 St Georg...	304	10,051	Small
1120 Westchester Pl	Hidalgo	Zacatecas	MEXICO	151-555-1702	1968-03-25 12:00:00 ...	1993-12-18 12:00:00 AM	30584	21938	12, 1120 Westc...	151	10,764	Large
1250 Coggins Drive	Guadalajara	Jalisco	MEXICO	801-555-4324	1978-09-18 12:00:00 ...	1991-06-29 12:00:00 AM	24597	15012	5, 1250 Coggin...	801	11,667	Small
5495 Mitchell Canyon R...	Beverly Hills	CA	USA	958-555-5002	1981-01-03 12:00:00 ...	1991-03-13 12:00:00 AM	23688	15337	6, 5495 Mitche...	958	11,775	Small
2853 Bailey Rd	Acapulco	Guerrero	MEXICO	262-555-5124	1982-01-09 12:00:00 ...	1990-12-05 12:00:00 AM	23593	17475	1, 2853 Bailey ...	262	11,873	Small
6644 Sudance Drive	Vancouver	BC	CANADA	862-555-7395	1977-03-27 12:00:00 ...	1990-10-25 12:00:00 AM	23112	16418	19, 6644 Sudan...	862	11,914	Small
4093 Steven Circle	San Andres	DF	MEXICO	493-555-4781	1986-02-07 12:00:00 ...	1990-04-16 12:00:00 AM	32717	25453	21, 4093 Steve...	493	12,106	Large
3920 Noah Court	Yakima	WA	USA	170-555-8424	1977-07-16 12:00:00 ...	1987-07-24 12:00:00 AM	29182	19283	23, 3920 Noah ...	170	13,103	Small
3706 Marvelle Ln	Victoria	BC	CANADA	897-555-1931	1980-02-06 12:00:00 ...	1987-04-09 12:00:00 AM	34452	27463	20, 3706 Marve...	897	13,209	Large
2342 Waltham St.	San Diego	CA	USA	111-555-0303	1979-05-22 12:00:00 ...	1986-04-20 12:00:00 AM	27372	18293	24, 2342 Walth...	111	13,563	Small
5371 Holland Circle	Portland	OR	USA	685-555-8995	1976-09-17 12:00:00 ...	1982-05-15 12:00:00 AM	20319	16232	11, 5371 Holla...	685	14,999	Small
7894 Rotherham Dr	Orizaba	Veracruz	MEXICO	212-555-4774	1979-04-13 12:00:00 ...	1982-01-30 12:00:00 AM	34791	26354	10, 7894 Rothe...	212	15,104	Large
1077 Wharf Drive	Los Angeles	CA	USA	477-555-7967	1971-05-21 12:00:00 ...	1981-10-20 12:00:00 AM	23598	14210	7, 1077 Wharf ...	477	15,206	Small
5922 La Salle Ct	Spokane	WA	USA	643-555-3645	1974-08-23 12:00:00 ...	1977-07-13 12:00:00 AM	30268	22063	16, 5922 La Sall...	643	16,766	Large
490 Risdon Road	Tacoma	WA	USA	855-555-5581	1970-05-30 12:00:00 ...	1976-06-23 12:00:00 AM	33858	22123	17, 490 Risdon ...	855	17,151	Large
6764 Glen Road	Hidalgo	Zacatecas	MEXICO	528-555-8317	1969-06-28 12:00:00 ...	1975-08-30 12:00:00 AM	38382	30351	18, 6764 Glen ...	528	17,449	Large
5006 Highland Drive	Seattle	WA	USA	893-555-1024	1969-07-24 12:00:00 ...	1973-10-19 12:00:00 AM	21215	13305	15, 5006 Highla...	893	18,129	Small
5203 Catanzaro Way	Bellingham	WA	USA	605-555-8203	1970-04-02 12:00:00 ...	1973-06-04 12:00:00 AM	28206	22271	2, 5203 Catanz...	605	18,266	Small
9606 Julpum Loop	Walla Walla	WA	USA	881-555-5117	1951-01-24 12:00:00 ...	1969-10-17 12:00:00 AM	35918	24837	22, 9606 Julpu...	881	19,592	Large
1501 Ramsey Circle	Bremerton	WA	USA	509-555-1596	1959-06-14 12:00:00 ...	1967-11-19 12:00:00 AM	39696	24390	3, 1501 Ramse...	509	20,290	Large
3173 Buena Vista Ave	Merida	Yucatan	MEXICO	797-555-3417	1958-09-23 12:00:00 ...	1967-11-18 12:00:00 AM	30797	20141	8, 3173 Buena ...	797	20,291	Large
1872 El Pintado Road	Mexico City	DF	MEXICO	439-555-3524	1955-03-18 12:00:00 ...	1959-06-07 12:00:00 AM	36509	22450	9, 1872 El Pinta...	439	23,377	Large
4365 Indigo Ct	San Francisco	CA	USA	135-555-4888	1957-11-24 12:00:00 ...	1958-01-07 12:00:00 AM	22478	15321	14, 4365 Indigo...	135	23,893	Small

2) Create a calculated column in the **Customer_Lookup** table named *membership_level*, based on the following logic:

- If *member_card* = "**Golden**", "**Silver**" or "**Bronze**", then *membership_level* = "**Premium**"
- Otherwise *membership_level* = "**Basic**"

```
=IF([member_card]="Golden" || [member_card]="Silver" || [member_card]="Bronze" , "Premium", "Basic")
```

dren	num_children_at_home	education	acct_open_date	member_card	occupation	homeowner	has_children	full_name	birth_year	age	New_Country	house_num	membership_level
	0	High School ...	11/16/1994	Bronze	Manual	N	Y	Bertha Jame...	1948	75	USA	3029	Premium
	0	High School ...	5/5/1992	Bronze	Manual	N	Y	Ole Weldon	1931	92	USA	5754	Premium
	0	High School ...	6/26/1994	Bronze	Manual	N	Y	Paul Alcorn	1973	50	USA	4822	Premium
	0	High School ...	2/9/1990	Bronze	Manual	N	Y	Jared Busta...	1910	113	USA	4222	Premium
	0	High School ...	3/15/1992	Bronze	Manual	N	Y	Margaret Ad...	1979	44	USA	8452	Premium
	0	High School ...	3/2/1994	Bronze	Manual	N	Y	Vanessa Tench	1930	93	USA	6621	Premium
	0	High School ...	6/4/1993	Bronze	Manual	N	Y	Catherine W...	1966	57	USA	1239	Premium
	0	High School ...	3/5/1992	Bronze	Manual	N	Y	Stacey Cere...	1943	80	USA	852	Premium
	0	High School ...	5/17/1992	Bronze	Manual	N	Y	Marlin Coriell	1933	90	USA	4824	Premium
	0	High School ...	9/8/1992	Bronze	Manual	N	Y	Deanna Sab...	1916	107	USA	8942	Premium
	0	High School ...	2/21/1991	Bronze	Manual	N	Y	Joseph Tho...	1968	55	USA	2099	Premium
	0	High School ...	6/12/1994	Bronze	Manual	N	Y	Roberta Stur...	1919	104	USA	3086	Premium
	0	High School ...	4/24/1992	Bronze	Manual	N	Y	Paula Tomli...	1948	75	USA	8885	Premium
	0	High School ...	11/8/1991	Bronze	Manual	N	Y	Troy Lipford	1953	70	USA	1016	Premium
	0	High School ...	6/16/1992	Bronze	Manual	N	Y	Burnis Biltoft	1941	82	USA	5207	Premium
	0	High School ...	3/8/1993	Bronze	Manual	N	Y	Jenni Montg...	1932	91	USA	2062	Premium
	0	High School ...	6/19/1994	Bronze	Manual	N	Y	Bill Hall	1943	80	USA	2530	Premium
	0	High School ...	8/27/1993	Bronze	Manual	N	Y	Don Lundbla...	1918	105	USA	4838	Premium
	0	High School ...	3/26/1991	Bronze	Manual	N	Y	John Torres	1922	101	USA	5525	Premium
	0	High School ...	3/28/1994	Bronze	Manual	N	Y	Angela Cottle	1940	83	USA	9334	Premium
	0	High School ...	7/26/1992	Bronze	Manual	N	Y	Gladys Lockett	1951	72	USA	6177	Premium
	0	High School ...	10/8/1991	Bronze	Manual	N	Y	Emerald Fuller	1924	99	USA	6130	Premium
	0	High School ...	11/27/1992	Bronze	Manual	N	Y	Akram James	1958	65	USA	5520	Premium
	0	High School ...	11/21/1991	Bronze	Manual	N	Y	Deborah Conti	1919	104	USA	7568	Premium
	0	High School ...	11/8/1991	Bronze	Manual	N	Y	Alexis Mills	1977	46	USA	6671	Premium
	0	High School ...	11/10/1991	Bronze	Manual	N	Y	Reta Mikalas	1935	88	USA	400	Premium
	0	High School ...	8/9/1991	Bronze	Manual	N	Y	Henry Dutson	1975	48	USA	3099	Premium

3) Update the *supermarket_size* calculation in the **Store_Lookup** table, to reflect the following logic:

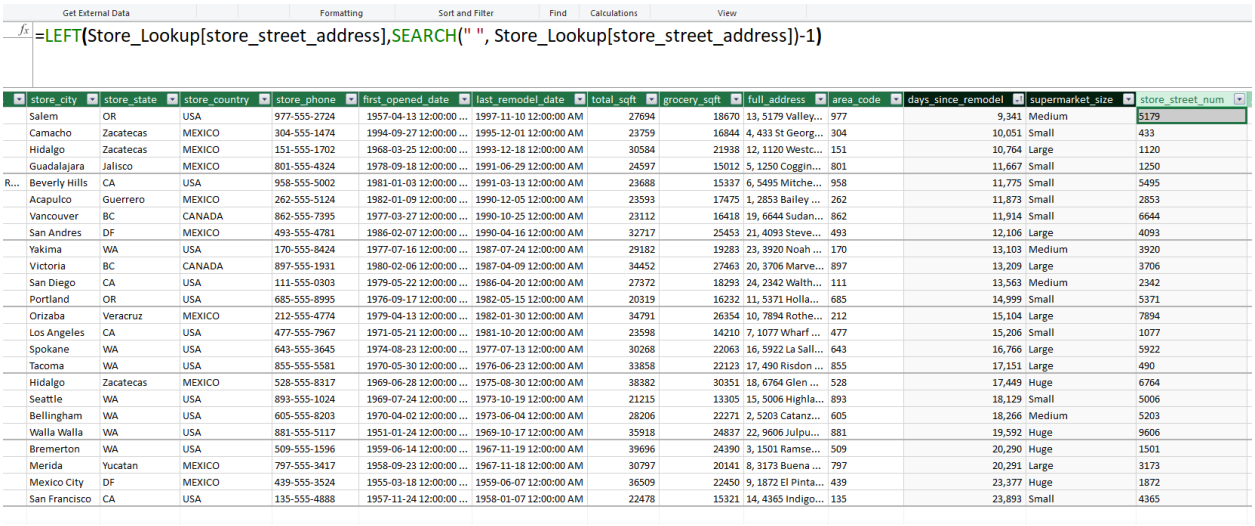
- If *total_sqft* > **35,000** then *supermarket_size* = "**Huge**"
- If *total_sqft* > **30,000** and *total_sqft* <=**35,000**, then *supermarket_size* = "**Large**"
- If *total_sqft* > **25,000** and *total_sqft* <=**30,000**, then *supermarket_size* = "**Medium**"
- If *total_sqft* <= **25,000** then *supermarket_size* = "**Small**"
- Otherwise *supermarket_size* = "**Other**"

Get External Data | Formatting | Sort and Filter | Find | Calculations | View

```
=SWITCH(TRUE(),
Store_Lookup[total_sqft] > 35000, "Huge",
Store_Lookup[total_sqft] > 30000 && Store_Lookup[total_sqft] <= 35000 ,"Large",
Store_Lookup[total_sqft] > 25000 && Store_Lookup[total_sqft] <= 30000, "Medium",
Store_Lookup[total_sqft] <= 25000, "Small",
"Other")
```

store_street_address	store_city	store_state	store_country	store_phone	first_opened_date	last_remodel_date	total_sqft	grocery_sqft	full_address	area_code	days_since_remodel	supermarket_size
5179 Valley Ave	Salem	OR	USA	977-555-2724	1957-04-13 12:00:00 ...	1997-11-10 12:00:00 AM	27694	18670	13, 5179 Valley...	977	9,341	Medium
433 St George Dr	Camacho	Zacatecas	MEXICO	304-555-1474	1994-09-27 12:00:00 ...	1995-12-01 12:00:00 AM	23759	16844	4, 433 St Georg...	304	10,051	Small
1120 Westchester Pl	Hidalgo	Zacatecas	MEXICO	151-555-1702	1968-03-25 12:00:00 ...	1993-12-18 12:00:00 AM	30584	21938	12, 1120 Westc...	151	10,764	Large
1250 Coggins Drive	Guadalajara	Jalisco	MEXICO	801-555-4324	1978-09-18 12:00:00 ...	1991-06-29 12:00:00 AM	24597	15012	5, 1250 Coggin...	801	11,667	Small
5495 Mitchell Canyon R...	Beverly Hills	CA	USA	958-555-5002	1981-01-03 12:00:00 ...	1991-03-13 12:00:00 AM	23688	15337	6, 5495 Mitche...	958	11,775	Small
2853 Bailey Rd	Acapulco	Guerrero	MEXICO	262-555-5124	1982-01-09 12:00:00 ...	1990-12-05 12:00:00 AM	23593	17475	1, 2853 Bailey ...	262	11,873	Small
6644 Sudance Drive	Vancouver	BC	CANADA	862-555-7395	1977-03-27 12:00:00 ...	1990-10-25 12:00:00 AM	23112	16418	19, 6644 Sudan...	862	11,914	Small
4093 Steven Circle	San Andres	DF	MEXICO	493-555-4781	1986-02-07 12:00:00 ...	1990-04-16 12:00:00 AM	32717	25453	21, 4093 Steve...	493	12,106	Large
3920 Noah Court	Yakima	WA	USA	170-555-8424	1977-07-16 12:00:00 ...	1987-07-24 12:00:00 AM	29182	19283	23, 3920 Noah ...	170	13,103	Medium
3706 Marvelle Ln	Victoria	BC	CANADA	897-555-1931	1980-02-06 12:00:00 ...	1987-04-09 12:00:00 AM	34452	27463	20, 3706 Marve...	897	13,209	Large
2342 Waltham St.	San Diego	CA	USA	111-555-0303	1979-05-22 12:00:00 ...	1986-04-20 12:00:00 AM	27372	18293	24, 2342 Walth...	111	13,563	Medium
5371 Holland Circle	Portland	OR	USA	685-555-8995	1976-09-17 12:00:00 ...	1982-05-15 12:00:00 AM	20319	16232	11, 5371 Holla...	685	14,999	Small
7894 Rotherham Dr	Orizaba	Veracruz	MEXICO	212-555-4774	1979-04-13 12:00:00 ...	1982-01-30 12:00:00 AM	34791	26354	10, 7894 Rothe...	212	15,104	Large
1077 Wharf Drive	Los Angeles	CA	USA	477-555-7967	1971-05-21 12:00:00 ...	1981-10-20 12:00:00 AM	23598	14210	7, 1077 Wharf ...	477	15,206	Small
5922 La Salle Ct	Spokane	WA	USA	643-555-3645	1974-08-23 12:00:00 ...	1977-07-13 12:00:00 AM	30268	22063	16, 5922 La Sall...	643	16,766	Large
490 Risdon Road	Tacoma	WA	USA	855-555-5581	1970-05-30 12:00:00 ...	1976-06-23 12:00:00 AM	33858	22123	17, 490 Risdon ...	855	17,151	Large
6764 Glen Road	Hidalgo	Zacatecas	MEXICO	528-555-8317	1969-06-28 12:00:00 ...	1975-08-30 12:00:00 AM	38382	30351	18, 6764 Glen ...	528	17,449	Huge
5006 Highland Drive	Seattle	WA	USA	893-555-1024	1969-07-24 12:00:00 ...	1973-10-19 12:00:00 AM	21215	13305	15, 5006 Highla...	893	18,129	Small
5203 Catanzaro Way	Bellingham	WA	USA	605-555-8203	1970-04-02 12:00:00 ...	1973-06-04 12:00:00 AM	28206	22271	2, 5203 Catanz...	605	18,266	Medium
9606 Julpum Loop	Walla Walla	WA	USA	881-555-5117	1951-01-24 12:00:00 ...	1969-10-17 12:00:00 AM	35918	24837	22, 9606 Julpu...	881	19,592	Huge
1501 Ramsey Circle	Bremerton	WA	USA	509-555-1596	1959-06-14 12:00:00 ...	1967-11-19 12:00:00 AM	39696	24390	3, 1501 Ramse...	509	20,290	Huge
3173 Buena Vista Ave	Merida	Yucatan	MEXICO	797-555-3417	1958-09-23 12:00:00 ...	1967-11-18 12:00:00 AM	30797	20141	8, 3173 Buena ...	797	20,291	Large
1872 El Pintado Road	Mexico City	DF	MEXICO	439-555-3524	1955-03-18 12:00:00 ...	1959-06-07 12:00:00 AM	36509	22450	9, 1872 El Pinta...	439	23,377	Huge

4) Create a calculated column in the **Store_Lookup** table named *store_street_num* to extract the street number from the *store_street_address* column



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Salem	OR	USA	977-555-2724	1957-04-13 12:00:00 ...	1997-11-10 12:00:00 AM	27694	18670	13, 5179 Valley...	977	9,341	Medium	5179
Camacho	Zacatecas	MEXICO	304-555-1474	1994-09-27 12:00:00 ...	1995-12-01 12:00:00 AM	23759	16844	4, 433 St Georg...	304	10,051	Small	433
Hidalgo	Zacatecas	MEXICO	151-555-1702	1968-03-25 12:00:00 ...	1993-12-18 12:00:00 AM	30584	21938	12, 1120 Westc...	151	10,764	Large	1120
Guadalajara	Jalisco	MEXICO	801-555-4324	1978-09-18 12:00:00 ...	1991-06-29 12:00:00 AM	24597	15012	5, 1250 Coggin...	801	11,667	Small	1250
Beverly Hills	CA	USA	958-555-5002	1981-01-03 12:00:00 ...	1991-03-13 12:00:00 AM	23688	15337	6, 5495 Mitche...	958	11,775	Small	5495
Acapulco	Guerrero	MEXICO	262-555-5124	1982-01-09 12:00:00 ...	1990-12-05 12:00:00 AM	23593	17475	1, 2853 Bailey ...	262	11,873	Small	2853
Vancouver	BC	CANADA	862-555-7395	1977-03-27 12:00:00 ...	1990-10-25 12:00:00 AM	23112	16418	19, 6644 Sudan...	862	11,914	Small	6644
San Andres	DF	MEXICO	493-555-4781	1986-02-07 12:00:00 ...	1990-04-16 12:00:00 AM	32717	25453	21, 4093 Steve...	493	12,106	Large	4093
Yakima	WA	USA	170-555-8424	1977-07-16 12:00:00 ...	1987-07-24 12:00:00 AM	29182	19283	23, 3920 Noah ...	170	13,103	Medium	3920
Victoria	BC	CANADA	897-555-1931	1980-02-06 12:00:00 ...	1987-04-09 12:00:00 AM	34452	27463	20, 3706 Marve...	897	13,209	Large	3706
San Diego	CA	USA	111-555-0303	1979-05-22 12:00:00 ...	1986-04-20 12:00:00 AM	27372	18293	24, 2342 Walth...	111	13,563	Medium	2342
Portland	OR	USA	685-555-8995	1976-09-17 12:00:00 ...	1982-05-15 12:00:00 AM	20319	16232	11, 5371 Holla...	685	14,999	Small	5371
Orizaba	Veracruz	MEXICO	212-555-4774	1979-04-13 12:00:00 ...	1982-01-30 12:00:00 AM	34791	26354	10, 7894 Rothe...	212	15,104	Large	7894
Los Angeles	CA	USA	477-555-7967	1971-05-21 12:00:00 ...	1981-10-20 12:00:00 AM	23598	14210	7, 1077 Wharf ...	477	15,206	Small	1077
Spokane	WA	USA	643-555-3645	1974-08-23 12:00:00 ...	1977-07-13 12:00:00 AM	30268	22063	16, 5922 La Sall...	643	16,766	Large	5922
Tacoma	WA	USA	855-555-5581	1970-05-30 12:00:00 ...	1976-06-23 12:00:00 AM	33858	22123	17, 490 Risdon ...	855	17,151	Large	490
Hidalgo	Zacatecas	MEXICO	528-555-8317	1969-06-28 12:00:00 ...	1975-08-30 12:00:00 AM	38382	30351	18, 6764 Glen ...	528	17,449	Huge	6764
Seattle	WA	USA	893-555-1024	1969-07-24 12:00:00 ...	1973-10-19 12:00:00 AM	21215	13305	15, 5006 Highla...	893	18,129	Small	5006
Bellingham	WA	USA	605-555-8203	1970-04-02 12:00:00 ...	1973-06-04 12:00:00 AM	28206	22271	2, 5203 Catanz...	605	18,266	Medium	5203
Walla Walla	WA	USA	881-555-5117	1951-01-24 12:00:00 ...	1969-10-17 12:00:00 AM	35918	24837	22, 9606 Julpu...	881	19,592	Huge	9606
Bremerton	WA	USA	509-555-1596	1959-06-14 12:00:00 ...	1967-11-19 12:00:00 AM	39696	24390	3, 1501 Ramse...	509	20,290	Huge	1501
Merida	Yucatan	MEXICO	797-555-3417	1958-09-23 12:00:00 ...	1967-11-18 12:00:00 AM	30797	20141	8, 3173 Buena ...	797	20,291	Large	3173
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San Francisco	CA	USA	135-555-4888	1957-11-24 12:00:00 ...	1958-01-07 12:00:00 AM	22478	15321	14, 4365 Indigo...	135	23,893	Small	4365