

<b>EXP.NO: 6.</b>	<b>Demonstrate basic operations using Power Pivot in Excel</b>	<b>Name:</b>
<b>DATE:</b>		<b>Roll no:</b>

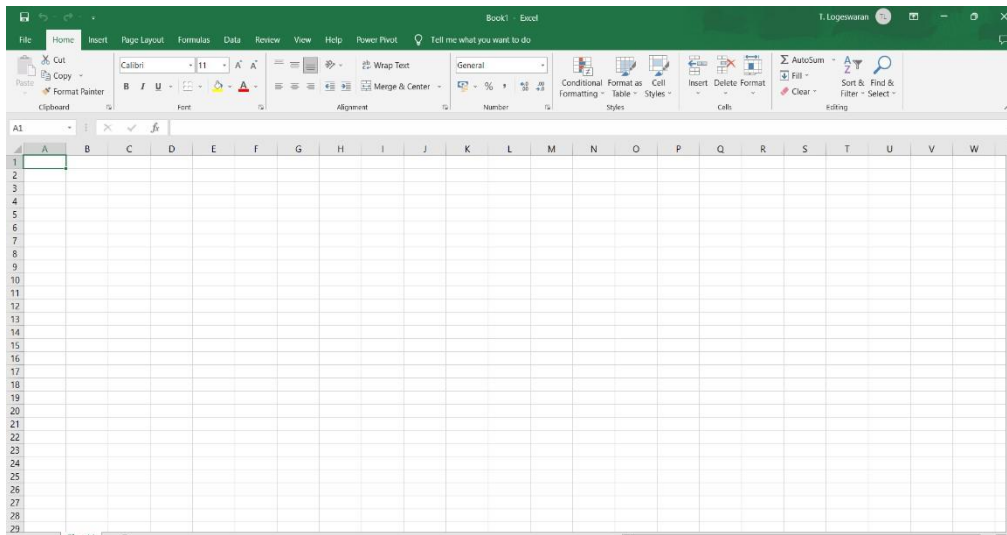
**AIM:**

To demonstrate the basic operations using Power Pivot in Excel.

**PROCEDURE:**

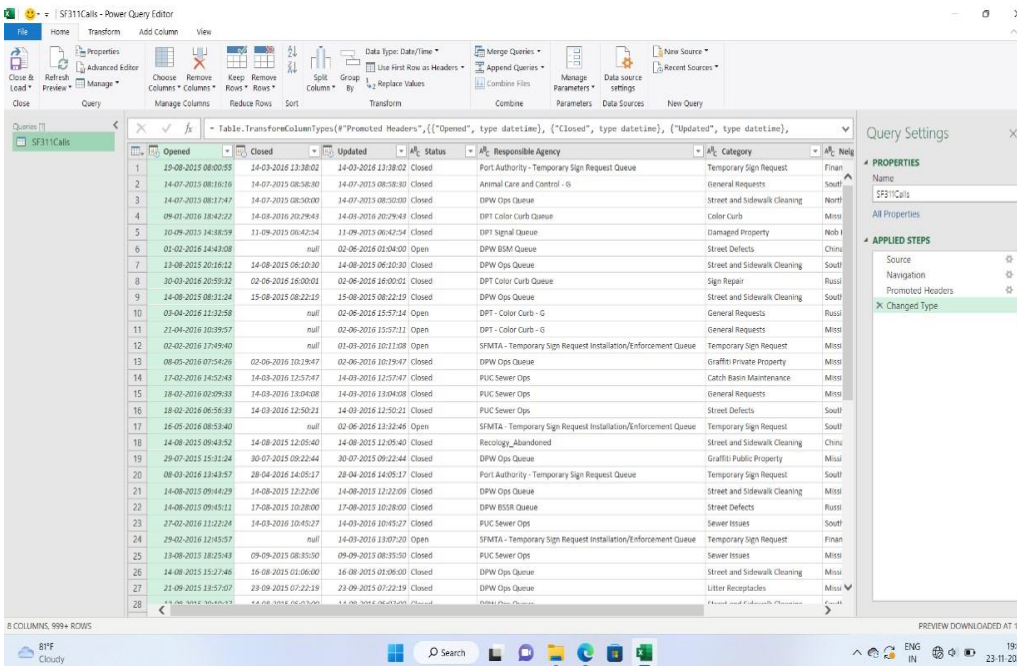
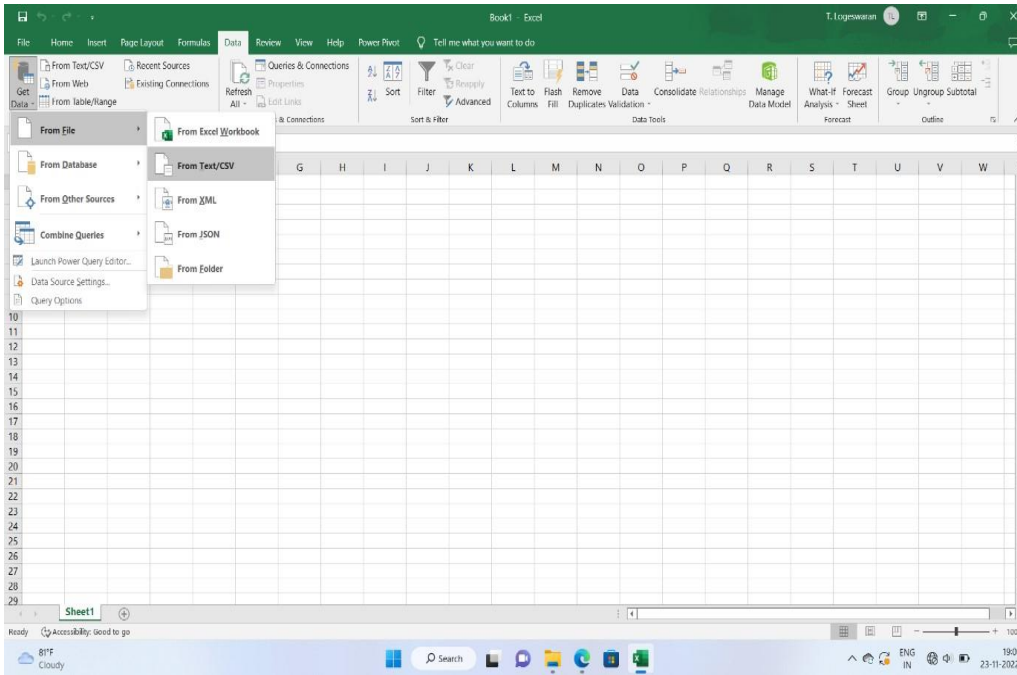
**STEP 1:**

Open Excel and create a blank spreadsheet.



**STEP 2:**

On the Data tab, click the Get Data drop-down and choose the From Text/CSV option. Navigate to the SF311 Calls.csv in the Lab Starter Files\Chapter10Lab1 folder. Open the file and click Transform Data to open it up in the Query editor. You should see the Query Editor window with San Francisco call center data.



### STEP 3:

In the Applied Steps list, if the Query Editor didn't automatically add the transform to set the first row as headers, add it now.

	Opened	Closed	Updated	Status	Responsible Agency	Category	Neig
1	11-08-2015 10:00:00	14-03-2016 11:00:00	14-03-2016 11:00:00	Closed	Port Authority - Temporary Sign Request Queue	Temporary Sign Request	Form
2	14-07-2015 08:00:00	14-07-2015 08:00:00	14-07-2015 08:00:00	Closed	Animal Care and Control - G	General Requests	South
3	14-07-2015 08:00:00	14-07-2015 08:00:00	14-07-2015 08:00:00	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	North
4	09-01-2016 18:40:00	14-03-2016 20:29:43	14-03-2016 20:29:43	Closed	DPT Color Curb Queue	Color Curb	Miss
5	16-02-2015 14:46:00	11-07-2015 18:47:54	11-07-2015 18:47:54	Closed	DPT Signal Queue	Damaged Property	North
6	01-02-2015 14:45:00	01-02-2015 15:04:00	01-02-2015 15:04:00	Open	DPW BSM Queue	Street Defects	Chino
7	13-08-2015 20:10:12	14-08-2015 08:10:30	14-08-2015 08:10:30	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	South
8	30-03-2016 20:59:30	03-06-2016 16:00:00	03-06-2016 16:00:00	Closed	DPT Color Curb Queue	Sign Request	South
9	14-08-2015 08:11:34	15-08-2015 08:22:11	15-08-2015 08:22:11	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	South
10	00-00-2016 11:00:00	00-00-2016 11:00:00	00-00-2016 11:00:00	Open	DPT - Color Curb - C	General Requests	North
11	21-04-2016 10:39:57	01-06-2016 15:57:12	01-06-2016 15:57:12	Open	DPT - Color Curb - G	General Requests	Miss
12	21-04-2016 17:49:40	01-06-2016 15:57:12	01-06-2016 15:57:12	Open	SMATA - Temporary Sign Request Installation/Inforcement Queue	Temporary Sign Request	Miss
13	08-01-2016 10:16:16	03-06-2016 10:17:01	03-06-2016 10:17:01	Closed	DPW Ops Queue	Graffiti Private Property	Miss
14	17-02-2016 16:55:53	14-03-2016 17:25:17	14-03-2016 17:25:17	Closed	ALC Sewer Ops	Catch Basin Maintenance	Miss
15	14-02-2016 02:09:33	14-03-2016 13:02:08	14-03-2016 13:02:08	Closed	PUC Sewer Ops	General Requests	Miss
16	14-02-2016 06:56:38	14-03-2016 12:30:21	14-03-2016 12:30:21	Closed	PUC Sewer Ops	Street Defects	South
17	16-02-2016 08:13:40	03-06-2016 11:02:06	03-06-2016 11:02:06	Open	SMATA - Temporary Sign Request Installation/Inforcement Queue	Temporary Sign Request	South
18	14-08-2015 09:16:57	14-08-2015 17:00:00	14-08-2015 17:00:00	Closed	Swilling_Maintenance	Street and Sidewalk Cleaning	Chino
19	29-07-2015 15:31:24	30-07-2015 09:22:04	30-07-2015 09:22:04	Closed	DPW Ops Queue	Graffiti Public Property	Miss
20	08-09-2015 12:43:37	28-09-2015 14:00:17	28-09-2015 14:00:17	Closed	Port Authority - Temporary Sign Request Queue	Temporary Sign Request	South
21	14-08-2015 09:44:29	14-08-2015 12:22:08	14-08-2015 12:22:08	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	Miss
22	14-08-2015 09:44:29	14-08-2015 10:00:00	14-08-2015 10:00:00	Closed	DPW FDOT Queue	Street Defects	Miss
23	17-02-2016 11:12:24	14-03-2016 10:45:27	14-03-2016 10:45:27	Closed	PUC Sewer Ops	Sewer Issues	South
24	29-02-2016 12:45:37	14-03-2016 15:07:00	14-03-2016 15:07:00	Open	SMATA - Temporary Sign Request Installation/Inforcement Queue	Temporary Sign Request	Form
25	18-02-2016 10:27:43	08-09-2016 08:25:50	08-09-2016 08:25:50	Closed	PUC Sewer Ops	Sewer Issues	Miss
26	14-08-2015 16:27:08	14-08-2015 17:00:00	14-08-2015 17:00:00	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	Miss
27	21-09-2015 10:22:19	21-09-2015 10:22:19	21-09-2015 10:22:19	Closed	DPW Ops Queue	Other Requests	Miss
28	14-08-2015 16:27:08	14-08-2015 17:00:00	14-08-2015 17:00:00	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	Miss

**STEP 4:**

Check the types of each column to see whether the Query Editor updated the Opened, Closed and Updated columns to a datetime data type. The rest of the columns should be the text data type.

	Opened	Closed	Updated	Status	Responsible Agency	Category	Neig
1	11-02-2015 04:39:38	01-02-2016 02:10:00	01-02-2016 02:10:00	Closed	DPW Ops Queue	Tree Maintenance	South
2	01-12-2015 01:40:10	04-12-2015 01:00:10	04-12-2015 01:00:10	Closed	DPW Ops Queue	Damaged Property	Miss
3	28-12-2015 11:12:27	25-04-2016 06:45:52	25-04-2016 06:45:52	Closed	311 Supervisor Queue	Sign Request	South
4	28-12-2015 11:12:27	25-04-2016 12:17:52	25-04-2016 12:17:52	Closed	Chgo Channel - Transit Queue	Sign Request	Chino
5	11-12-2015 12:09:07	23-03-2016 09:22:59	23-03-2016 09:22:59	Closed	PUC Sewer Ops	Street Defects	Form
6	17-12-2015 11:45:11	23-03-2016 04:48:00	23-03-2016 04:48:00	Closed	DPW BSM Queue	Sidewalk or Curb	South
7	28-12-2015 16:27:26	18-09-2016 08:38:19	18-09-2016 08:38:19	Closed	DPT Motor - Bike Queue	Graffiti Public Property	Chino
8	28-12-2015 16:27:26	08-09-2016 17:10:22	08-09-2016 17:10:22	Open	DPT Paint Shop Curb Queue	Graffiti Private Property	South
9	09-12-2015 10:39:13	18-09-2016 05:04:00	18-09-2016 05:04:00	Open	LAW Ops Queue	Line Replacement	North
10	21-12-2015 10:30:39	21-03-2016 10:16:19	21-03-2016 10:16:19	Closed	PUC Sewer Ops	Sewer Issues	Chino
11	21-12-2015 01:37:12	21-03-2016 10:16:19	21-03-2016 10:16:19	Closed	PUC Sewer Ops	General Requests	Chino
12	21-12-2015 14:16:08	07-09-2016 12:55:23	07-09-2016 12:55:23	Closed	DPT SignShop Temporary - Area 1 Queue	General Requests	Chino
13	06-12-2015 07:05:58	13-06-2016 01:01:40	13-06-2016 01:01:40	Closed	DPW Ops Queue	Graffiti Private Property	Miss
14	31-12-2014 07:08:44	07-01-2016 06:41:00	07-01-2016 06:41:00	Closed	DPW Ops Queue	Tree Maintenance	Form
15	31-12-2014 07:08:44	12-08-2015 12:00:00	12-08-2015 12:00:00	Closed	DPW BSM Queue	Blocked Street or Sidewalk	North
16	31-12-2014 07:08:44	02-01-2016 18:20:13	02-01-2016 18:20:13	Closed	DPW Ops Queue	Graffiti Private Property	Chino
17	31-12-2014 06:00:00	13-01-2016 10:45:27	13-01-2016 10:45:27	Closed	DPW Ops Queue	Graffiti Private Property	Miss
18	31-12-2014 06:00:00	07-01-2016 08:06:56	07-01-2016 08:06:56	Closed	DPW Ops Queue	Graffiti Private Property	Form
19	31-12-2014 06:00:00	17-01-2016 08:45:49	17-01-2016 08:45:49	Closed	DPW BLP Queue	Tree Maintenance	Chino
20	31-12-2014 06:00:00	13-01-2016 14:38:04	13-01-2016 14:38:04	Closed	RFC Park Service Area 1 Queue	Rac and Park Requests	Chino
21	31-12-2014 06:00:00	03-01-2016 13:00:00	03-01-2016 13:00:00	Closed	DPW BSM Queue	Street Defects	South
22	31-12-2014 06:30:12	03-01-2016 07:48:00	03-01-2016 07:48:00	Closed	DPW BLP Queue	Tree Maintenance	Chino
23	31-12-2014 06:29:30	06-01-2016 19:25:17	06-01-2016 19:25:17	Closed	311 Supervisor Queue	Blocked Street or Sidewalk	Chino
24	31-12-2014 06:11:09	02-01-2016 07:30:40	02-01-2016 07:30:40	Closed	DPT Signal Queue	Damaged Property	North
25	31-12-2014 06:00:00	09-01-2016 10:12:12	09-01-2016 10:12:12	Closed	DPW BLP Queue	Blocked Street or Sidewalk	Chino
26	31-12-2014 06:48:18	06-01-2016 12:00:00	06-01-2016 12:00:00	Closed	DPW Ops Queue	Tree Maintenance	Miss
27	31-12-2014 06:51:53	01-01-2016 12:00:00	01-01-2016 12:00:00	Closed	DPW BSM Queue	Graffiti Public Property	Chino
28	31-12-2014 06:51:53	01-01-2016 12:00:00	01-01-2016 12:00:00	Closed	DPW Ops Queue	Street and Sidewalk Cleaning	Miss

**STEP 5:**

Filter the data so that it doesn't include data from the Test Queue, zzRPD and ZZ Taxi Commission agencies. If you don't see those agencies, you may need to click "Load more" at the bottom of the filter list.

8 COLUMNS, 799+ ROWS

SP311Calls - Rower Query Editor

Home Transforms Add Column View

Conditional Columns  
Index Columns  
Duplicate Column

Format  
Merge Columns  
Extract  
Parse  
Statistics  
Standard Scientific  
Information

Date Time  
Duration

From Text  
From Number  
From Date & Time

Query Settings

SP311Calls

Table: TransFormColumnTypes ("Filtered Rows", [{"Opened", type: date}])

	Opened	Closed	Updated	Status	Responsible Agency	Category	Notes
1	18-12-2015	05-02-2016 02:10:00	05-02-2016 02:10:00	Closed	DPW Ops Queue	Tree Maintenance	South
2	03-12-2015	04-12-2015 02:03:30	04-12-2015 02:03:30	Closed	DPW Ops Queue	Damaged Property	Misc
3	18-12-2015	25-04-2016 06:45:32	25-04-2016 06:45:32	Closed	311 Supervisor Queue	Sign Repair	South
4	26-12-2015	25-04-2016 14:17:51	25-04-2016 14:17:51	Closed	Crews Channel - Transit Queue	Sign Repair	Clark
5	11-12-2015	23-12-2015 09:29:18	23-12-2015 09:29:18	Closed	PUC Sewer Ops	Street Defects	South
6	27-12-2015	23-03-2016 04:48:00	23-03-2016 04:48:00	Closed	DPW RSM Queue	Sidewalk or Curb	South
7	29-12-2015	18-01-2016 08:58:29	18-01-2016 08:58:29	Closed	DPT Meter, Bike Queue	Graffiti Public Property	Clark
8	22-12-2015	null	08-07-2016 17:32:22	Open	DPI Plant Shop Curb Queue	Graffiti Private Property	South
9	09-12-2015	null	16-03-2016 09:41:28	Open	DPW Ops Queue	Litter Receipts	North
10	11-12-2015	21-08-2016 10:04:49	21-08-2016 10:04:49	Closed	PUC Sewer Ops	Sewer Issues	South
11	22-12-2015	23-03-2016 10:26:11	23-03-2016 10:26:11	Closed	PUC Sewer Ops	General Requests	South
12	11-12-2015	07-04-2016 12:53:51	07-04-2016 12:53:51	Closed	DPT Signshop Surveyed - Area 1 Queue	General Requests	Clark
13	04-12-2015	23-06-2016 02:45:00	23-06-2016 02:45:00	Closed	DPW Ops Queue	Graffiti Private Property	Misc
14	31-12-2015	07-02-2016 06:41:00	07-02-2016 06:41:00	Closed	DPW Ops Queue	Tree Maintenance	Finan
15	31-12-2015	12-08-2015 17:00:00	12-08-2015 17:00:00	Closed	DPW RSM Queue	Rocked Street or Sidewalk	North
16	31-12-2015	02-02-2015 16:22:13	02-02-2015 16:22:13	Closed	DPW Ops Queue	Graffiti Private Property	Clark
17	12-12-2015	15-01-2016 10:24:28	15-01-2016 10:24:28	Closed	DPW Ops Queue	Graffiti Private Property	Misc
18	11-12-2015	07-02-2015 08:06:56	07-02-2015 08:06:56	Closed	DPW Ops Queue	Graffiti Private Property	Clark
19	12-12-2015	17-02-2015 08:49:49	17-02-2015 08:49:49	Closed	DPW Ops Queue	Tree Maintenance	Clark
20	31-12-2015	13-03-2015 14:58:04	13-03-2015 14:58:04	Closed	RPD Park Service Area 1 Queue	Rac and Park Requests	Clark
21	31-12-2015	02-02-2015 12:00:00	02-02-2015 12:00:00	Closed	DPW RSM Queue	Street Defects	South
22	31-12-2015	03-01-2015 07:48:00	03-01-2015 07:48:00	Closed	DPW Ops Queue	Street Defects	South
23	11-12-2015	06-01-2015 19:25:57	06-01-2015 19:25:57	Closed	311 Supervisor Queue	Blocked Street or Sidewalk	Clark
24	21-12-2015	02-02-2015 07:30:48	02-02-2015 07:30:48	Closed	DPI Signal Queue	Damaged Property	North
25	31-12-2015	09-02-2015 01:11:21	09-02-2015 01:11:21	Closed	DPW Ops Queue	Blocked Street or Sidewalk	Clark
26	11-12-2015	06-02-2015 12:00:00	06-02-2015 12:00:00	Closed	DPW Ops Queue	Tree Maintenance	Misc
27	31-12-2015	01-01-2015 12:00:00	01-01-2015 12:00:00	Closed	DPW RSM Queue	Graffiti Public Property	Clark
28	01-01-2016	01-01-2016 00:00:00	01-01-2016 00:00:00	Closed	DPW Ops Queue	Graffiti Public Property	Clark

8 COLUMNS, 799+ ROWS

SP311Calls

Table: TransFormColumnTypes ("Filtered Rows", [{"Opened", type: date}])

Opened

Closed

Updated

Status

Responsible Agency

Category

Notes

Navigation

Promoted Headers

Changed Type

Filtered Rows

Filtered Rows1

X Changed Type1

Preview Downloaded at 19:08

23 11 2016

Select the Opened column and filter the rows so that Opened is after 12/31/2014

Select the Opened column and filter the rows so that Opened is after 12/31/2014

81°F Cloudy Search ENG IN 19:17 23-11-2022



Power Query Editor - SF311Calls

Table: TransformColumnTypes(#"Filtered Rows",{"Opened", "type date"})

	Opened	Closed	Updated	Status	Responsible Agency	Category	Priority
1	18-12-2015	04-12-2015 03:08:10	05-02-2016 02:10:00	Closed	DPW Ops Queue	Tree Maintenance	South
2	01-12-2015	04-12-2015 03:08:10	04-12-2015 03:08:10	Closed	DPW Ops Queue	Damaged Property	Missoula
3	20-12-2015	25-04-2016 06:45:32	25-04-2016 06:45:32	Closed	311 Supervisor Queue	Sign Repair	South
4	20-12-2015	25-04-2016 14:17:51	25-04-2016 14:17:51	Closed	Clear Channel - Transit Queue	Sign Repair	Chico
5	11-12-2015	23-03-2016 09:22:39	23-03-2016 09:22:39	Closed	PUC Sewer Ops	Street Defects	Finney
6	27-12-2015	23-03-2016 04:48:00	23-03-2016 04:48:00	Closed	DPW BSM Queue	Sidewalk or Curb	South
7	29-12-2015	18-03-2016 08:38:19	18-03-2016 08:38:19	Closed	DPT Meter - Other Queue	Graffiti Public Property	Chico
8	23-12-2015	null	08-03-2016 17:32:19	Open	DPT Paint Shop Curb Queue	Graffiti Private Property	South
9	09-12-2015	null	16-03-2016 09:44:26	Open	DPW Ops Queue	Litter Receptacles	North
10	21-12-2015	21-03-2016 10:24:49	21-03-2016 10:24:49	Closed	PUC Sewer Ops	Sewer Issues	Chico
11	22-12-2015	21-03-2016 10:39:13	21-03-2016 10:39:13	Closed	PUC Sewer Ops	General Requests	Chico
12	21-12-2015	07-04-2016 12:55:23	07-04-2016 12:55:23	Closed	DPT SignShop Surveyed - Area 1 Queue	General Requests	China
13	04-12-2015	13-08-2016 01:45:00	13-08-2016 01:45:00	Closed	DPW Ops Queue	Graffiti Private Property	Missoula
14	31-12-2014	07-02-2015 08:06:58	07-02-2015 08:06:58	Closed	DPW Ops Queue	Tree Maintenance	Finney
15	31-12-2014	12-08-2015 12:00:00	12-08-2015 12:00:00	Closed	DPW BSM Queue	Blocked Street or Sidewalk	North
16	31-12-2014	02-03-2015 16:22:43	02-03-2015 16:22:43	Closed	DPW Ops Queue	Graffiti Private Property	Chico
17	31-12-2014	13-01-2015 10:42:29	13-01-2015 10:42:29	Closed	DPW Ops Queue	Graffiti Private Property	Missoula
18	31-12-2014	07-02-2015 08:06:58	07-02-2015 08:06:58	Closed	DPW Ops Queue	Graffiti Private Property	Finney
19	31-12-2014	17-01-2015 08:45:49	17-01-2015 08:45:49	Closed	DPW BUF Queue	Tree Maintenance	China
20	31-12-2014	14-08-2015 14:58:04	14-08-2015 14:58:04	Closed	RPO Park Service Area 1 Queue	Rac and Park Requests	Chico
21	31-12-2014	02-01-2015 12:00:00	02-01-2015 12:00:00	Closed	DPW BSM Queue	Street Defects	South
22	31-12-2014	03-01-2015 07:48:00	03-01-2015 07:48:00	Closed	DPW BUF Queue	Tree Maintenance	Chico
23	31-12-2014	06-01-2015 19:25:17	06-01-2015 19:25:17	Closed	311 Supervisor Queue	Blocked Street or Sidewalk	Chico
24	31-12-2014	02-01-2015 07:30:46	02-01-2015 07:30:46	Closed	DPT Signal Queue	Damaged Property	North
25	31-12-2014	09-01-2015 01:12:21	09-01-2015 01:12:21	Closed	DPW BUF Queue	Blocked Street or Sidewalk	Chico
26	31-12-2014	06-01-2015 12:00:00	06-01-2015 12:00:00	Closed	DPW Ops Queue	Tree Maintenance	Missoula
27	31-12-2014	03-01-2015 12:00:00	03-01-2015 12:00:00	Closed	DPW BSM Queue	Graffiti Public Property	Chico
28	31-12-2014	03-01-2016 16:13:13	03-01-2016 16:13:13	Closed	DPW Ops Queue	Graffiti Private Property	Chico

8 COLUMNS, 999+ ROWS

**STEP 7:**

Select the Opened column again, and on the Add Column tab, select the time drop-down. Select Hour and then Start of Hour. Rename the new column to Hour Opened.

Power Query Editor - SF311Calls

Table: RenameColumn(#"Inserted End of Hour",{"Hour opened", "type date"})

	Hour opened	Closed	Updated	Status	Responsible Agency	Category	Priority
1	04:00:00	04-12-2015 03:08:10	05-02-2016 02:10:00	Closed	DPW Ops Queue	Tree Maintenance	South
2	04:00:00	04-12-2015 03:08:10	04-12-2015 03:08:10	Closed	DPW Ops Queue	Damaged Property	Missoula
3	11:00:00	25-04-2016 06:45:32	25-04-2016 06:45:32	Closed	311 Supervisor Queue	Sign Repair	South
4	11:00:00	25-04-2016 14:17:51	25-04-2016 14:17:51	Closed	Clear Channel - Transit Queue	Sign Repair	Chico
5	12:00:00	23-03-2016 09:22:39	23-03-2016 09:22:39	Closed	PUC Sewer Ops	Street Defects	Finney
6	16:00:00	23-03-2016 04:48:00	23-03-2016 04:48:00	Closed	DPW BSM Queue	Sidewalk or Curb	South
7	16:00:00	18-03-2016 08:38:19	18-03-2016 08:38:19	Closed	DPT Meter - Other Queue	Graffiti Public Property	Chico
8	16:00:00	null	08-03-2016 17:32:19	Open	DPW Ops Queue	Graffiti Private Property	South
9	16:00:00	null	16-03-2016 09:44:26	Open	DPW Ops Queue	Litter Receptacles	North
10	16:00:00	21-03-2016 10:24:49	21-03-2016 10:24:49	Closed	PUC Sewer Ops	Sewer Issues	Chico
11	16:00:00	21-03-2016 10:39:13	21-03-2016 10:39:13	Closed	PUC Sewer Ops	General Requests	Chico
12	16:00:00	07-04-2016 12:55:23	07-04-2016 12:55:23	Closed	DPT SignShop Surveyed - Area 1 Queue	General Requests	China
13	07:00:00	13-08-2016 01:45:00	13-08-2016 01:45:00	Closed	DPW Ops Queue	Graffiti Private Property	Missoula
14	07:00:00	07-02-2015 08:06:58	07-02-2015 08:06:58	Closed	DPW Ops Queue	Tree Maintenance	Finney
15	07:00:00	12-08-2015 12:00:00	12-08-2015 12:00:00	Closed	DPW BSM Queue	Blocked Street or Sidewalk	North
16	07:00:00	02-03-2015 16:22:43	02-03-2015 16:22:43	Closed	DPW Ops Queue	Graffiti Private Property	Chico
17	07:00:00	13-01-2015 10:42:29	13-01-2015 10:42:29	Closed	DPW Ops Queue	Graffiti Private Property	Missoula
18	07:00:00	07-02-2015 08:06:58	07-02-2015 08:06:58	Closed	DPW Ops Queue	Graffiti Private Property	Finney
19	07:00:00	17-01-2015 08:45:49	17-01-2015 08:45:49	Closed	DPW BUF Queue	Tree Maintenance	China
20	07:00:00	14-08-2015 14:58:04	14-08-2015 14:58:04	Closed	RPO Park Service Area 1 Queue	Rac and Park Requests	Chico
21	07:00:00	02-01-2015 12:00:00	02-01-2015 12:00:00	Closed	DPW BSM Queue	Street Defects	South
22	07:00:00	03-01-2015 07:48:00	03-01-2015 07:48:00	Closed	DPW BUF Queue	Tree Maintenance	Chico
23	07:00:00	06-01-2015 19:25:17	06-01-2015 19:25:17	Closed	311 Supervisor Queue	Blocked Street or Sidewalk	Chico
24	07:00:00	02-01-2015 07:30:46	02-01-2015 07:30:46	Closed	DPT Signal Queue	Damaged Property	North
25	07:00:00	09-01-2015 01:12:21	09-01-2015 01:12:21	Closed	DPW BUF Queue	Blocked Street or Sidewalk	Chico
26	07:00:00	06-01-2015 12:00:00	06-01-2015 12:00:00	Closed	DPW Ops Queue	Tree Maintenance	Missoula
27	07:00:00	03-01-2015 12:00:00	03-01-2015 12:00:00	Closed	DPW BSM Queue	Graffiti Public Property	Chico
28	07:00:00	03-01-2016 16:13:13	03-01-2016 16:13:13	Closed	DPW Ops Queue	Graffiti Private Property	Chico

9 COLUMNS, 999+ ROWS

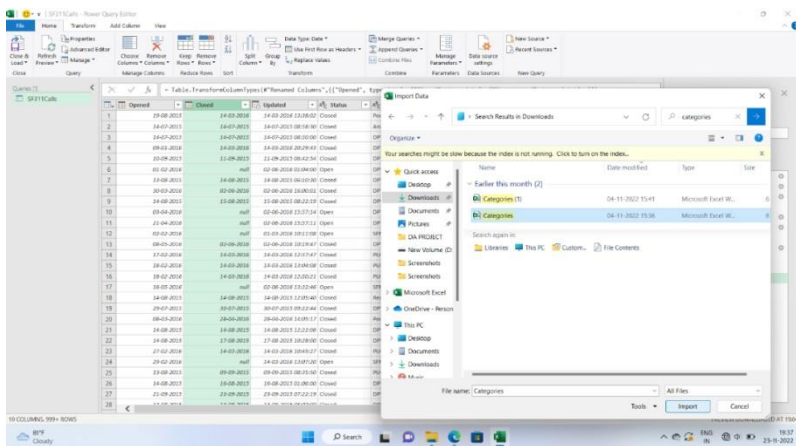
**STEP 8:**

Change the data types of the Opened and Closed columns to Date(no time) and the Hour Opened to the Time data type.

Hour opened	Closed	Updated	Status	Responsible Agency	Street	Source	Hour opened	Start of Hour	Categories	type
01-06-20...	02-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
13-03-20...	14-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
13-03-20...	14-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	03-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	08-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
03-03-20...	03-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	02-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	03-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	03-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	05-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	08-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	02-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	02-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	12-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
29-02-20...	02-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
01-03-20...	02-03-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	03-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	03-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	
02-06-20...	03-06-201...	Open	DPW Ops Queue				12:00 AM	30-12-1899 00...	City Maintenance	

**STEP 9:**

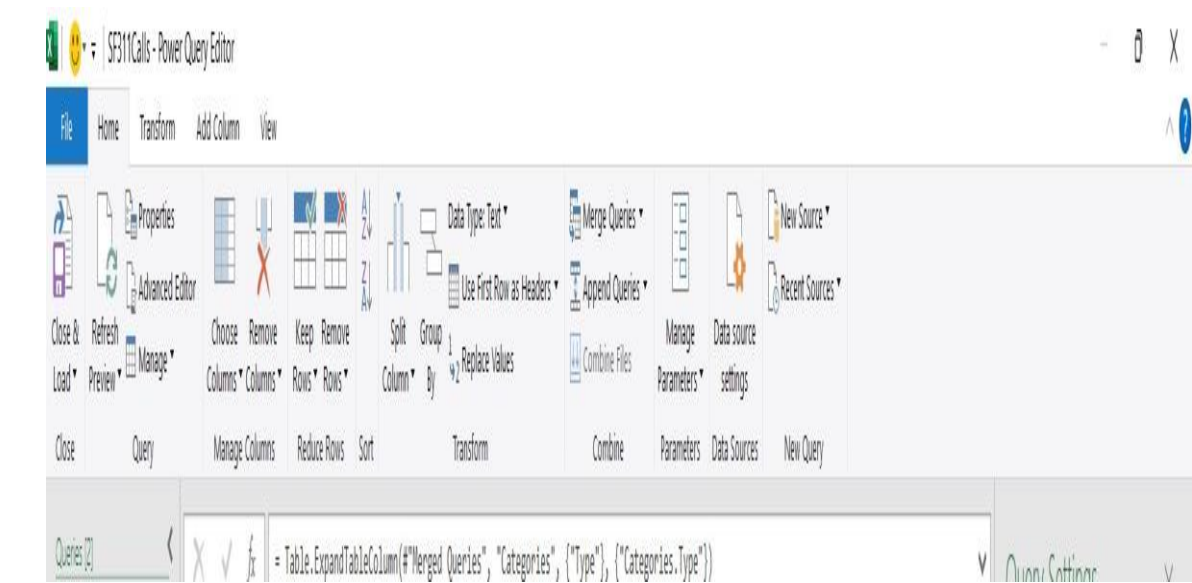
In the Home tab, select the New Source drop-down and choose the CSV option. Navigate to the file Categories.csv in the Lab Starter Files\Chapter10Lab1 folder. Open the file and click import and then OK to open it in the Query Editor.



Categories	type
101 External Request	Other
Abandoned Vehicle	Enforcement Activities
Blocked Drive or Walkway	City Maintenance
Catch Basin Maintenance	City Maintenance
Color Cuts	City Maintenance
Damaged Property	Property Damage Reports
DPW Inspection Programs	Other
General Requests	Service Requests
Graffiti Public Property	Property Damage Reports
Graffiti Private Property	Property Damage Reports
Illegal Parking	Enforcement Activities
Intergovernmental Request	Other
Other Requests	City Maintenance
Other Feedback	Other
Noise Report	Enforcement Activities
Rec and Park Requests	Service Requests
Residential Building Request	Service Requests
Roof Leak	City Maintenance
Sign Request	City Maintenance
Street and Sidewalk Cleaning	City Maintenance
Street Safety	City Maintenance
Streetlights	City Maintenance
Temporary Sign Request	Service Requests
Tire Maintenance	City Maintenance
Unpermitted Cab Complaint	Enforcement Activities

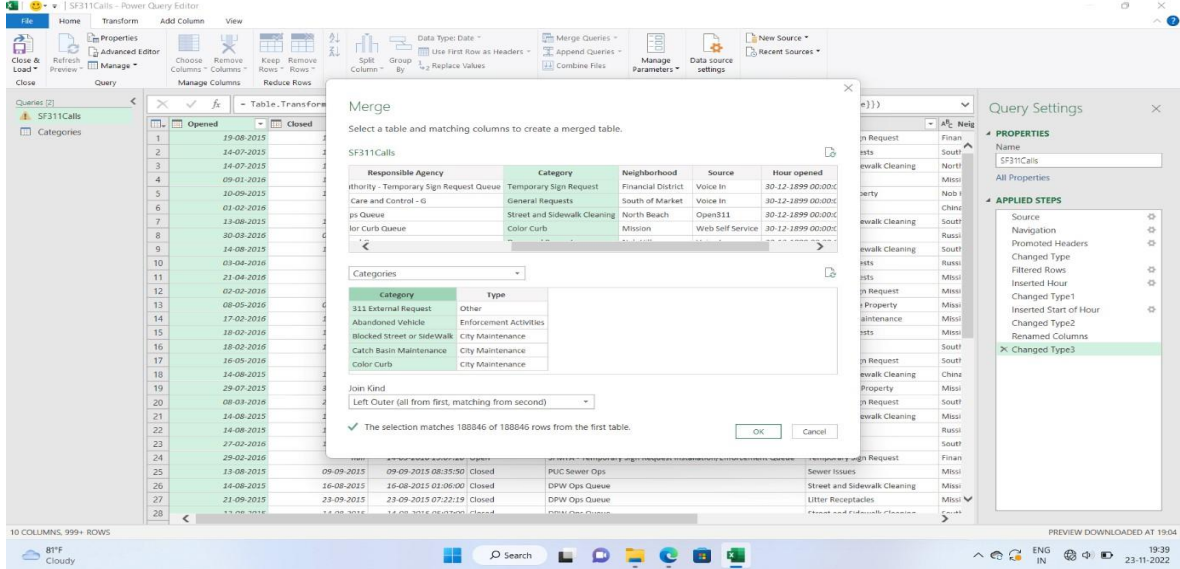
**STEP 10:**

Under the Home tab, select Use First Row as Headers.



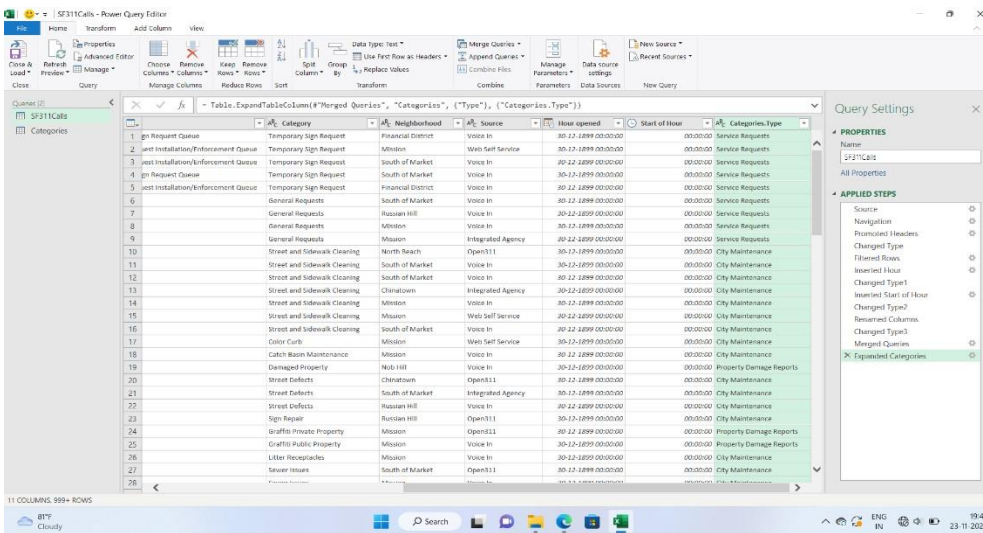
**STEP 11:**

Select the SF311Calls query and merge it with the categories query using the Category column.



**STEP 12:**

Expand the resulting column and uncheck the Category field, leaving only the Type field selected.

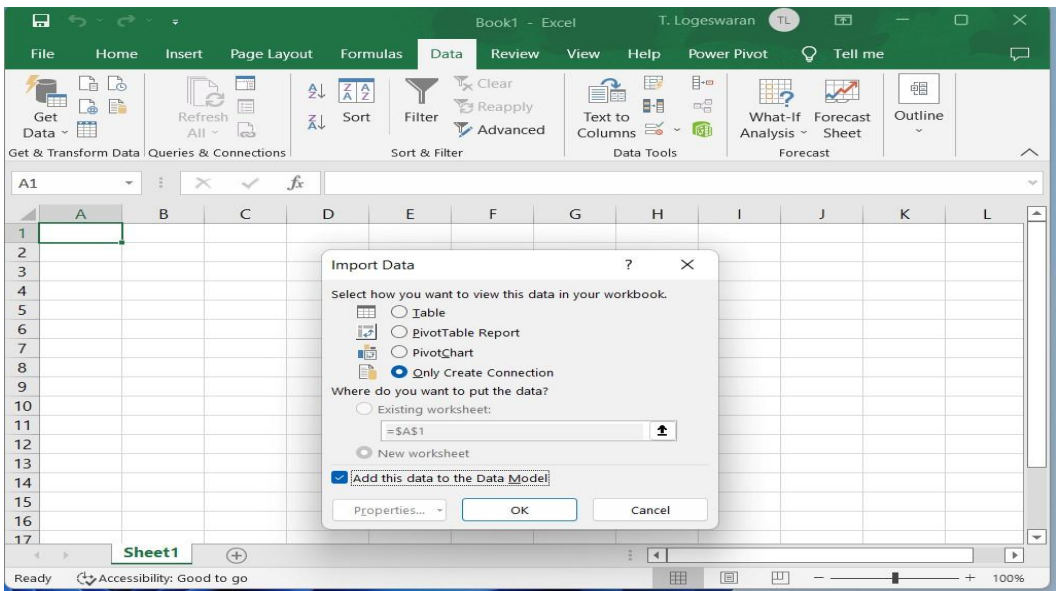


**STEP 13:**

On the Home tab,select the Close&Load drop-down and select Close&Load option.

**STEP 14:**

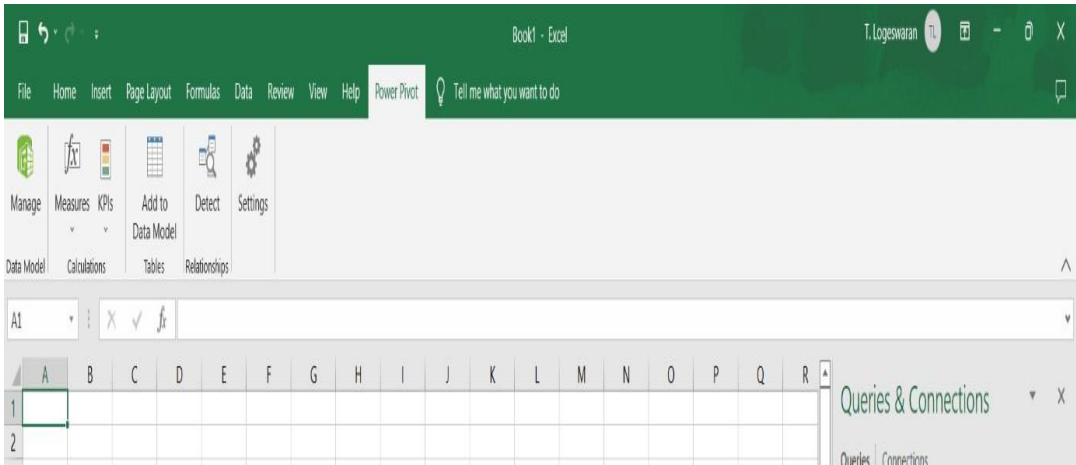
In the Import Dat pop-up widow,select only Create Connection option and check the Add this data to the Data Model.Click OK.



**STEP 15:**

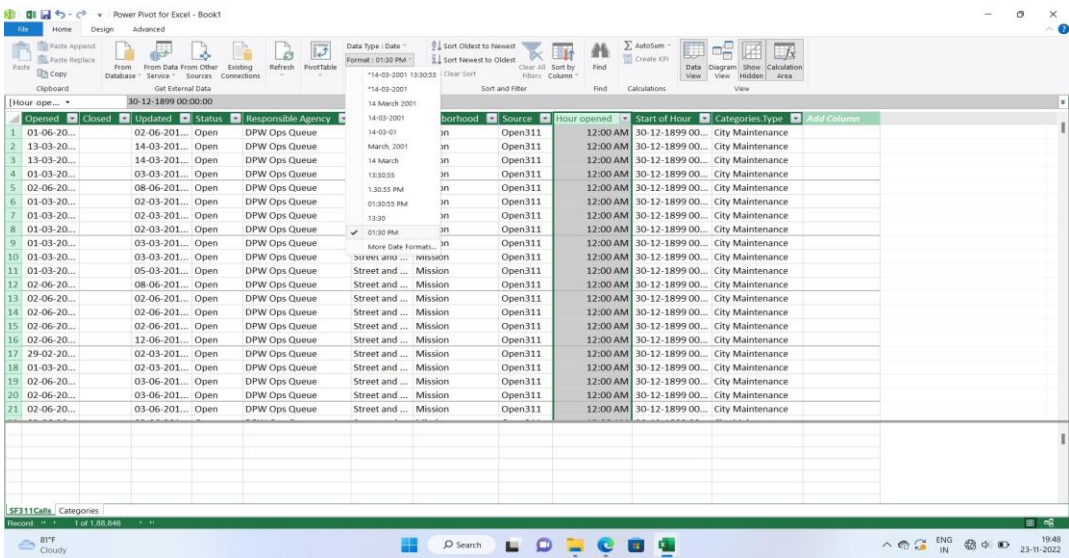
To open the Power Pivot model, select the Manage Data button on the Power Pivot tab.





### STEP 16:

Select the SF311Calls table, select the Hour Open column, and on the Home tab change the format to show the hour.



### STEP 17:

To create a calendar table, on the Design tab, under the Date Table drop-down, click the New Table button.

	Opened	Closed	Updated	Status	Responsible Agency	Neighborhood	Source	Hour opened	Start of Hour	Categories.Type	Add Column
1	01-06-20...	02-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
2	13-03-20...	14-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
3	13-03-20...	14-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
4	01-03-20...	03-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
5	02-06-20...	08-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
6	01-03-20...	02-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
7	01-03-20...	02-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
8	01-03-20...	02-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
9	01-03-20...	03-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
10	01-03-20...	03-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
11	01-03-20...	05-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
12	02-06-20...	08-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
13	02-06-20...	02-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
14	02-06-20...	02-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
15	02-06-20...	02-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
16	02-06-20...	12-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
17	29-03-20...	02-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
18	01-03-20...	02-03-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
19	02-06-20...	03-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
20	02-06-20...	03-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	
21	02-06-20...	03-06-201...	Open	Open	DPW Ops Queue	Street and ...	Open311	12:00 AM	12:00 AM	City Maintenance	

**STEP 18:**

Once the calendar table is created, select the Date Table drop-down again and update the date range from 1/1/2014 to 12/31/2016.

	Date	Year	Month Number	Month	MMM-YYYY	Day Of Week Number	Day Of Week	Add Column
1	01-01-...	1899				1	Sunday	
2	02-01-...	1899				2	Monday	
3	03-01-...	1899				3	Tuesday	
4	04-01-...	1899				4	Wednesday	
5	05-01-...	1899				5	Thursday	
6	06-01-...	1899				6	Friday	
7	07-01-...	1899				7	Saturday	
8	08-01-...	1899				1	Sunday	
9	09-01-...	1899				2	Monday	
10	10-01-...	1899				3	Tuesday	
11	11-01-...	1899				4	Wednesday	
12	12-01-...	1899				5	Thursday	
13	13-01-...	1899				6	Friday	
14	14-01-...	1899				7	Saturday	
15	15-01-...	1899				1	Sunday	
16	16-01-...	1899				2	Monday	
17	17-01-...	1899				3	Tuesday	
18	18-01-...	1899				4	Wednesday	
19	19-01-...	1899				5	Thursday	
20	20-01-...	1899				6	Friday	
21	21-01-...	1899				7	Saturday	

**STEP 19:**

In the Data view, select the Calendar table. Change the data columns data type to Date and format it to show MM/DD/YYYY.

Date	Year	Month Number	Month	MMM-YYYY	Day Of Week Number	Day Of Week
01-01-2014	2014	1	January	Jan-2014	4	Wednesday
02-01-2014	2014	1	January	Jan-2014	5	Thursday
03-01-2014	2014	1	January	Jan-2014	6	Friday
04-01-2014	2014	1	January	Jan-2014	7	Saturday
05-01-2014	2014	1	January	Jan-2014	1	Sunday
06-01-2014	2014	1	January	Jan-2014	2	Monday
07-01-2014	2014	1	January	Jan-2014	3	Tuesday
08-01-2014	2014	1	January	Jan-2014	4	Wednesday
09-01-2014	2014	1	January	Jan-2014	5	Thursday
10-01-2014	2014	1	January	Jan-2014	6	Friday
11-01-2014	2014	1	January	Jan-2014	7	Saturday
12-01-2014	2014	1	January	Jan-2014	1	Sunday
13-01-2014	2014	1	January	Jan-2014	2	Monday
14-01-2014	2014	1	January	Jan-2014	3	Tuesday
15-01-2014	2014	1	January	Jan-2014	4	Wednesday
16-01-2014	2014	1	January	Jan-2014	5	Thursday
17-01-2014	2014	1	January	Jan-2014	6	Friday
18-01-2014	2014	1	January	Jan-2014	7	Saturday
19-01-2014	2014	1	January	Jan-2014	1	Sunday
20-01-2014	2014	1	January	Jan-2014	2	Monday
21-01-2014	2014	1	January	Jan-2014	3	Tuesday

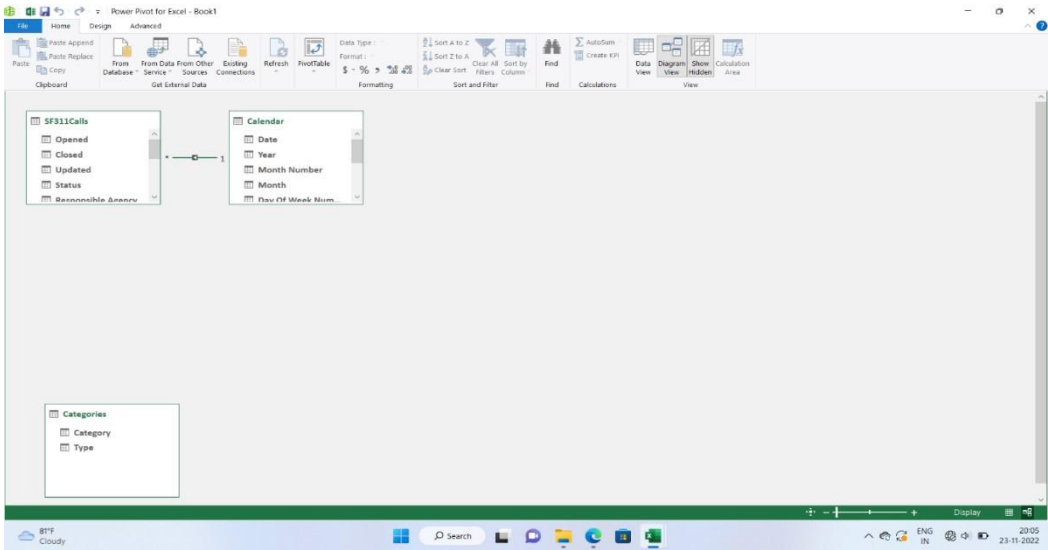
**STEP 20:**

Sort the Month column by the Month No column.

Date	Year	Month Number	Month	Day Of Week Number	Day Of Week
01-01-2014	2014	1	January	4	Wednesday
02-01-2014	2014	1	January	5	Thursday
03-01-2014	2014	1	January	6	Friday
04-01-2014	2014	1	January	7	Saturday
05-01-2014	2014	1	January	1	Sunday
06-01-2014	2014	1	January	2	Monday
07-01-2014	2014	1	January	3	Tuesday
08-01-2014	2014	1	January	4	Wednesday
09-01-2014	2014	1	January	5	Thursday
10-01-2014	2014	1	January	6	Friday
11-01-2014	2014	1	January	7	Saturday
12-01-2014	2014	1	January	1	Sunday
13-01-2014	2014	1	January	2	Monday
14-01-2014	2014	1	January	3	Tuesday
15-01-2014	2014	1	January	4	Wednesday
16-01-2014	2014	1	January	5	Thursday
17-01-2014	2014	1	January	6	Friday
18-01-2014	2014	1	January	7	Saturday
19-01-2014	2014	1	January	1	Sunday
20-01-2014	2014	1	January	2	Monday
21-01-2014	2014	1	January	3	Tuesday

**STEP 21:**

Switch to the diagram view and create a relationship between the SF311Calls table and the Calendar table using the Date Opened and Date columns.



## STEP 22:

In the Data view, select the SF311Calls table. Add a Days Open column using the following formulas:

Op...	Closed	Updated	Status	Responsible Agency	Category	Neighborhood	Source	Hour opened	Start of Hour	Categories.Type	Days Open	Add Column
1	01-06-20...	02-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	213	
2	13-03-20...	14-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	293	
3	13-03-20...	14-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	293	
4	01-03-20...	03-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
5	02-06-20...	08-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
6	01-03-20...	02-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
7	01-03-20...	02-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
8	01-03-20...	02-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
9	01-03-20...	03-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
10	01-03-20...	03-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
11	01-03-20...	05-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
12	02-06-20...	08-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
13	02-06-20...	02-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
14	02-06-20...	02-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
15	02-06-20...	02-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
16	02-06-20...	12-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
17	29-02-20...	02-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	306	
18	01-03-20...	02-03-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	305	
19	02-06-20...	03-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
20	02-06-20...	03-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	
21	02-06-20...	03-06-201...	Open	DPW Ops Queue	Street and ...	Mission	Open311	12:00 AM	12:00 AM	City Maintenance	212	

Close the Power Pivot editor and save the Excel file as Chapter10Lab1.xlsx



<b>COE</b>	<b>20</b>	
<b>RECORD</b>	<b>20</b>	
<b>VIVA</b>	<b>10</b>	
<b>TOTAL</b>	<b>50</b>	

## RESULT:

Thus the basic operations are performed using Power Pivot in Excel.