

DA Assignment – 1

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Challenge: Upload the dataset to Cognos Analytics, delete the unnecessary columns, create a data module, explore, and visualize the dataset

Uploading the dataset

The screenshot shows the Cognos Analytics interface. On the left, the 'Data module' pane lists the columns of the dataset: # Row Id, Invoice ID, Branch, City, Customer type, Gender, Product line, Unit price, Quantity, Tax 5%, Total, Date, Time, Payment, cogs, gross ma...centage, gross income, and Rating. The 'Date' column is selected. The main grid view displays the following data:

Unit price	Quantity	Tax 5%	Total	Date	Time
74.69	7	26.1415	548.9715	2019-01-05	13:08:00
15.28	5	3.82	80.22	2019-03-08	10:29:00
46.33	7	16.2155	340.5255	2019-03-03	13:23:00
58.22	8	23.288	489.048	2019-01-27	20:33:00
86.31	7	30.2085	634.3785	2019-02-08	10:37:00
85.39	7	29.8865	627.6165	2019-03-25	18:30:00
68.84	6	20.652	433.692	2019-02-25	14:36:00
73.56	10	36.78	772.38	2019-02-24	11:38:00
36.26	2	3.626	76.146	2019-01-10	17:15:00
54.84	3	8.226	172.746	2019-02-20	13:27:00
14.48	4	2.896	60.816	2019-02-06	18:07:00
25.51	4	5.102	107.142	2019-03-09	17:03:00
46.95	5	11.7375	246.4875	2019-02-12	10:25:00
43.19	10	21.595	453.495	2019-02-07	16:48:00
71.38	10	35.69	749.49	2019-03-29	19:21:00

Splitting the Date column

The 'Split column - Date' dialog box shows the configuration for splitting the 'Date' column. The 'Year' field is set to '2019', the 'Month' field is set to '1', and the 'Day' field is set to '5'. The 'Include the day of the week' checkbox is checked. A preview table shows the resulting data:

Date	Year	Month	Day	Day of the week
2019-01-05	2019	1	5	Saturday
2019-02-06	2019	2	6	Wednesday
2019-03-29	2019	3	29	Friday
2019-03-11	2019	3	11	Monday
2019-03-22	2019	3	22	Friday
2019-02-10	2019	2	10	Sunday
2019-03-27	2019	3	27	Wednesday
2019-03-12	2019	3	12	Tuesday
2019-02-14	2019	2	14	Thursday
2019-01-24	2019	1	24	Thursday

The 'Split column - Date' dialog box shows the 'Review new columns' section. The columns are: Date, Year, Month, Day, and Day of the week. The 'Date' column is selected. The 'Review new columns' section shows the following data:

Date	Year	Month	Day	Day of the week
2019-01-05	2019	1	5	Saturday
2019-02-06	2019	2	6	Wednesday
2019-03-29	2019	3	29	Friday
2019-03-11	2019	3	11	Monday
2019-03-22	2019	3	22	Friday
2019-02-10	2019	2	10	Sunday
2019-03-27	2019	3	27	Wednesday
2019-03-12	2019	3	12	Tuesday
2019-02-14	2019	2	14	Thursday
2019-01-24	2019	1	24	Thursday
2019-01-22	2019	1	22	Tuesday
2019-01-23	2019	1	23	Wednesday
2019-02-23	2019	2	23	Saturday
2019-02-09	2019	2	9	Saturday

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Removing the duplicate columns

Gross margin percentage column

Grid Relationships Custom tables							
↑↓	Day of the week	Time	Payment	cogs	gross marg...percentage	gross income	Rating
	Saturday	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
	Friday	10:29:00	Cash	76.4	4.761904762	3.82	9.6
	Sunday	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
	Sunday	20:33:00	Ewallet	465.76	4.761904762	23.288	8.4
	Friday	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
	Monday	18:30:00	Ewallet	597.73	4.761904762	29.8865	4.1
	Monday	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
	Sunday	11:38:00	Ewallet	735.6	4.761904762	36.78	8
	Thursday	17:15:00	Credit card	72.52	4.761904762	3.626	7.2
	Wednesday	13:27:00	Credit card	164.52	4.761904762	8.226	5.9
	Wednesday	18:07:00	Ewallet	57.92	4.761904762	2.896	4.5
	Saturday	17:03:00	Cash	102.04	4.761904762	5.102	6.8
	Tuesday	10:25:00	Ewallet	234.75	4.761904762	11.7375	7.1
	Thursday	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
	Friday	19:21:00	Cash	713.8	4.761904762	35.69	5.7
	Tuesday	16:19:00	Cash	562.32	4.761904762	28.116	4.5
	Monday	11:03:00	Credit card	482.51	4.761904762	24.1255	4.6

After removal

Grid

Relationships

Custom tables

↑↓	Day	Day of the week	Time	Payment	cogs	gross income	Rating
	5	Saturday	13:08:00	Ewallet	522.83	26.1415	9.1
	8	Friday	10:29:00	Cash	76.4	3.82	9.6
	3	Sunday	13:23:00	Credit card	324.31	16.2155	7.4
	27	Sunday	20:33:00	Ewallet	465.76	23.288	8.4
	8	Friday	10:37:00	Ewallet	604.17	30.2085	5.3
	25	Monday	18:30:00	Ewallet	597.73	29.8865	4.1
	25	Monday	14:36:00	Ewallet	413.04	20.652	5.8
	24	Sunday	11:38:00	Ewallet	735.6	36.78	8
	10	Thursday	17:15:00	Credit card	72.52	3.626	7.2
	20	Wednesday	13:27:00	Credit card	164.52	8.226	5.9
	6	Wednesday	18:07:00	Ewallet	57.92	2.896	4.5
	9	Saturday	17:03:00	Cash	102.04	5.102	6.8
	12	Tuesday	10:25:00	Ewallet	234.75	11.7375	7.1
	7	Thursday	16:48:00	Ewallet	431.9	21.595	8.2
	29	Friday	19:21:00	Cash	713.8	35.69	5.7
	15	Tuesday	16:19:00	Cash	562.32	28.116	4.5
	11	Monday	11:03:00	Credit card	482.51	24.1255	4.6

Year column

Grid

Relationships

Custom tables

↑↓	e	Quantity	Tax 5%	Total	Date	Year	Month	Day
		7	26.1415	548.9715	2019-01-05	2019	1	5
		5	3.82	80.22	2019-03-08	2019	3	8
		7	16.2155	340.5255	2019-03-03	2019	3	3
		8	23.288	489.048	2019-01-27	2019	1	27
		7	30.2085	634.3785	2019-02-08	2019	2	8
		7	29.8865	627.6165	2019-03-25	2019	3	25
		6	20.652	433.692	2019-02-25	2019	2	25
		10	36.78	772.38	2019-02-24	2019	2	24
		2	3.626	76.146	2019-01-10	2019	1	10
		3	8.226	172.746	2019-02-20	2019	2	20
		4	2.896	60.816	2019-02-06	2019	2	6
		4	5.102	107.142	2019-03-09	2019	3	9
		5	11.7375	246.4875	2019-02-12	2019	2	12
		10	21.595	453.495	2019-02-07	2019	2	7
		10	35.69	749.49	2019-03-29	2019	3	29
		6	28.116	590.436	2019-01-15	2019	1	15
		7	24.1255	506.6355	2019-03-11	2019	3	11

After removal

Grid

Relationships

Custom tables

↑↓	Quantity	Tax 5%	Total	Date	Month	Day	Day of the week
7	26.1415	548.9715	2019-01-05	1	5	Saturday	
5	3.82	80.22	2019-03-08	3	8	Friday	
7	16.2155	340.5255	2019-03-03	3	3	Sunday	
8	23.288	489.048	2019-01-27	1	27	Sunday	
7	30.2085	634.3785	2019-02-08	2	8	Friday	
7	29.8865	627.6165	2019-03-25	3	25	Monday	
6	20.652	433.692	2019-02-25	2	25	Monday	
10	36.78	772.38	2019-02-24	2	24	Sunday	
2	3.626	76.146	2019-01-10	1	10	Thursday	
3	8.226	172.746	2019-02-20	2	20	Wednesday	
4	2.896	60.816	2019-02-06	2	6	Wednesday	
4	5.102	107.142	2019-03-09	3	9	Saturday	
5	11.7375	246.4875	2019-02-12	2	12	Tuesday	
10	21.595	453.495	2019-02-07	2	7	Thursday	
10	35.69	749.49	2019-03-29	3	29	Friday	
6	28.116	590.436	2019-01-15	1	15	Tuesday	
7	24.1255	506.6355	2019-03-11	3	11	Monday	

Saving the data model

Save as

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Name

Data_1

Selected destination: My content

My content

Team content

▽

↑↓

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Name	Type	Last Accessed
📁 Assignment_1	Folder	9/1/2023, 5:15 AM
📁 VIT	Folder	8/30/2023, 8:20 AM
📎 Sample - Superstore.xls <div>xls</div>	Uploaded file	8/23/2023, 9:22 AM
📎 supermarket_sales - Sheet1.csv <div>CSV</div>	Uploaded file	9/1/2023, 5:03 AM

Cancel

Save

Here we remove the branch column as its similar to city column

Branch	City
A	Yangon
B	Mandalay
C	Naypyitaw

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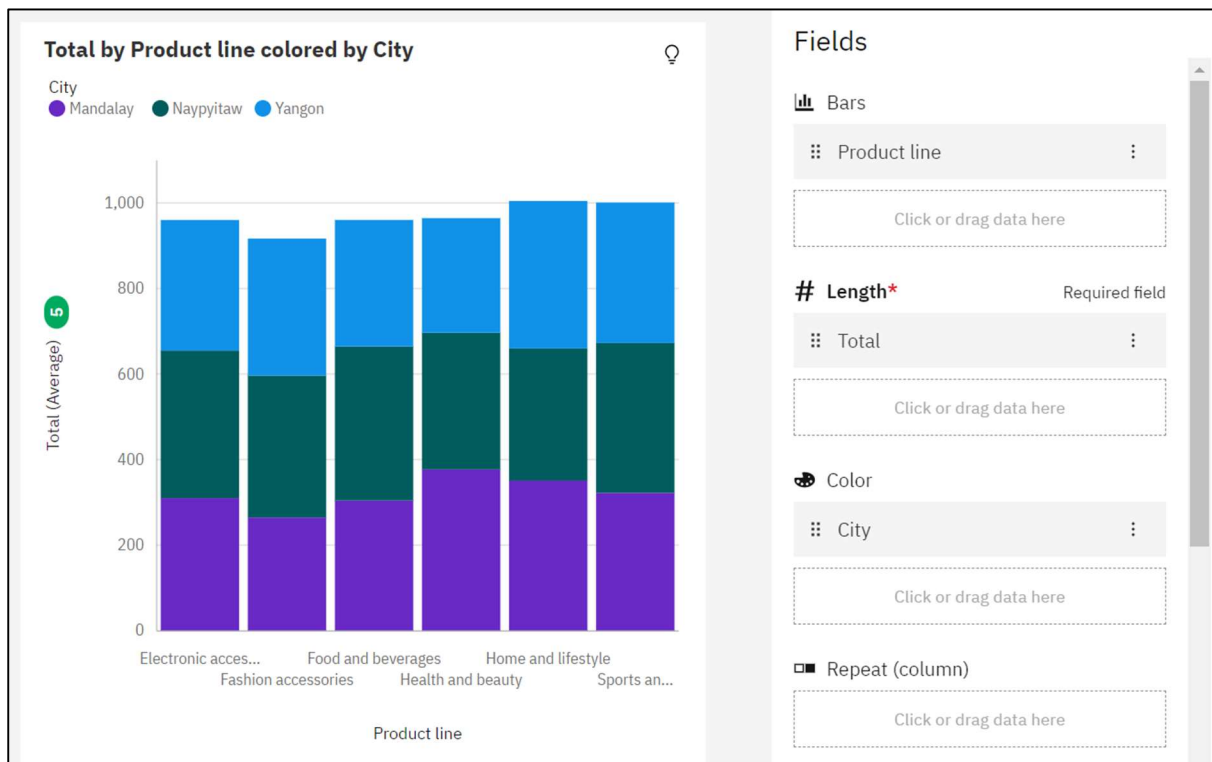
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After removal

Visualizations:

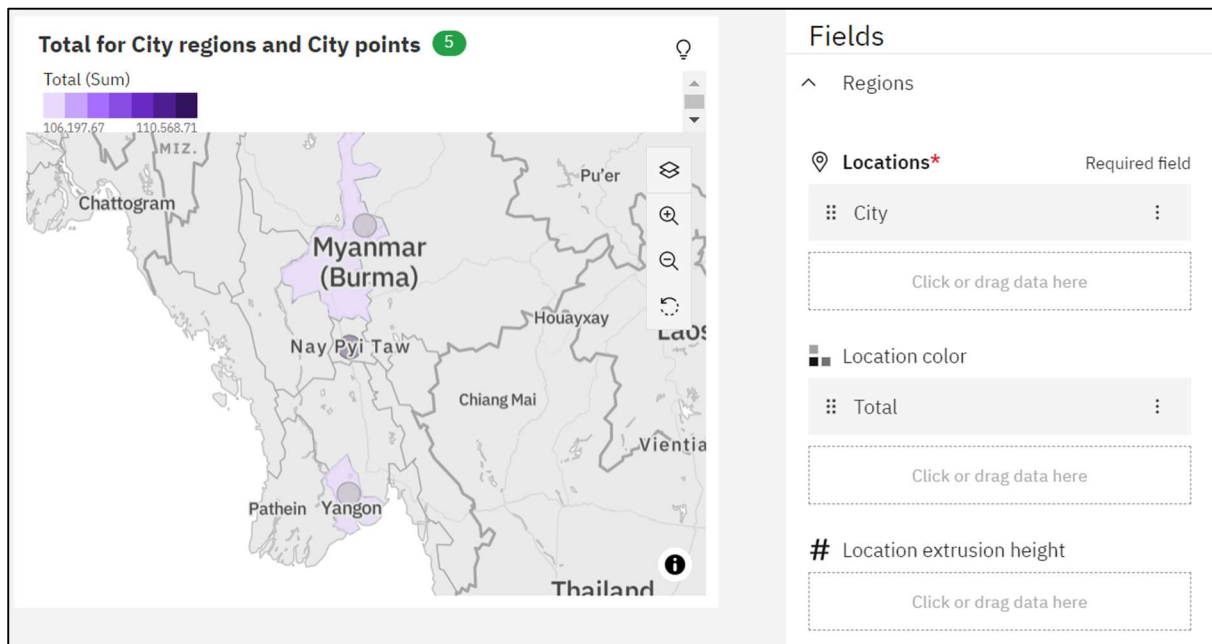
Total by Product line colored by City



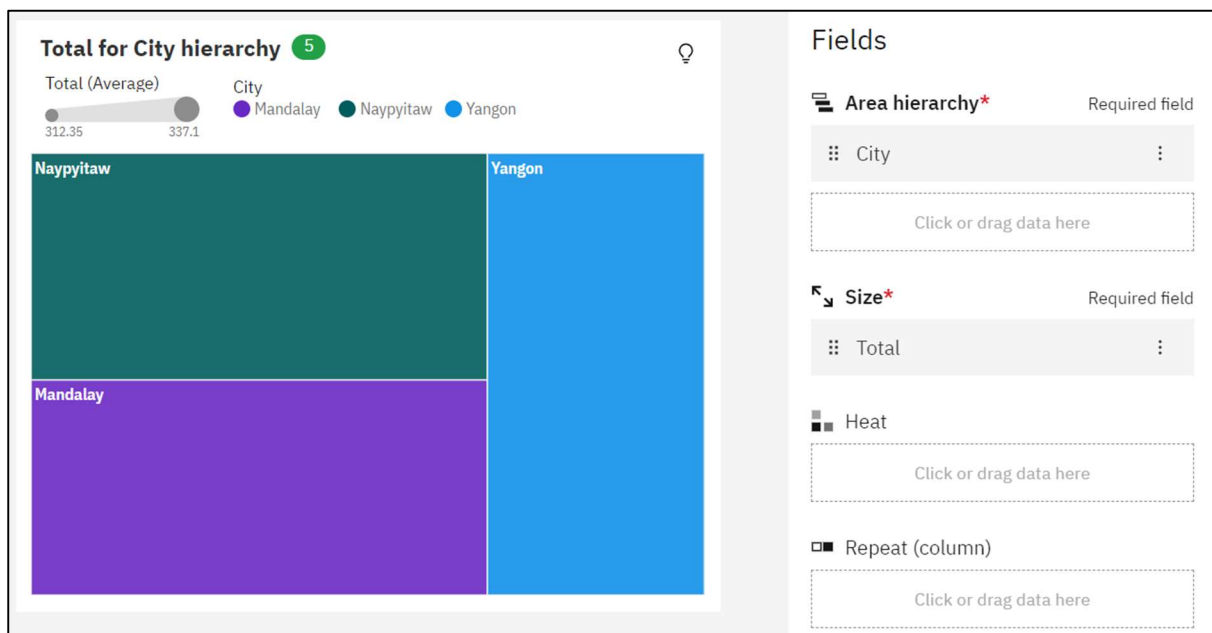
Total by Month



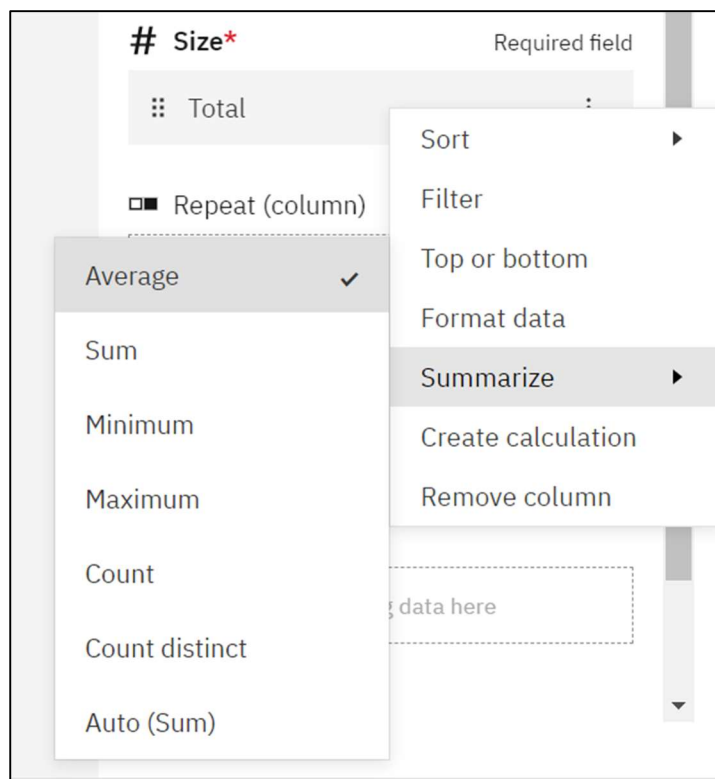
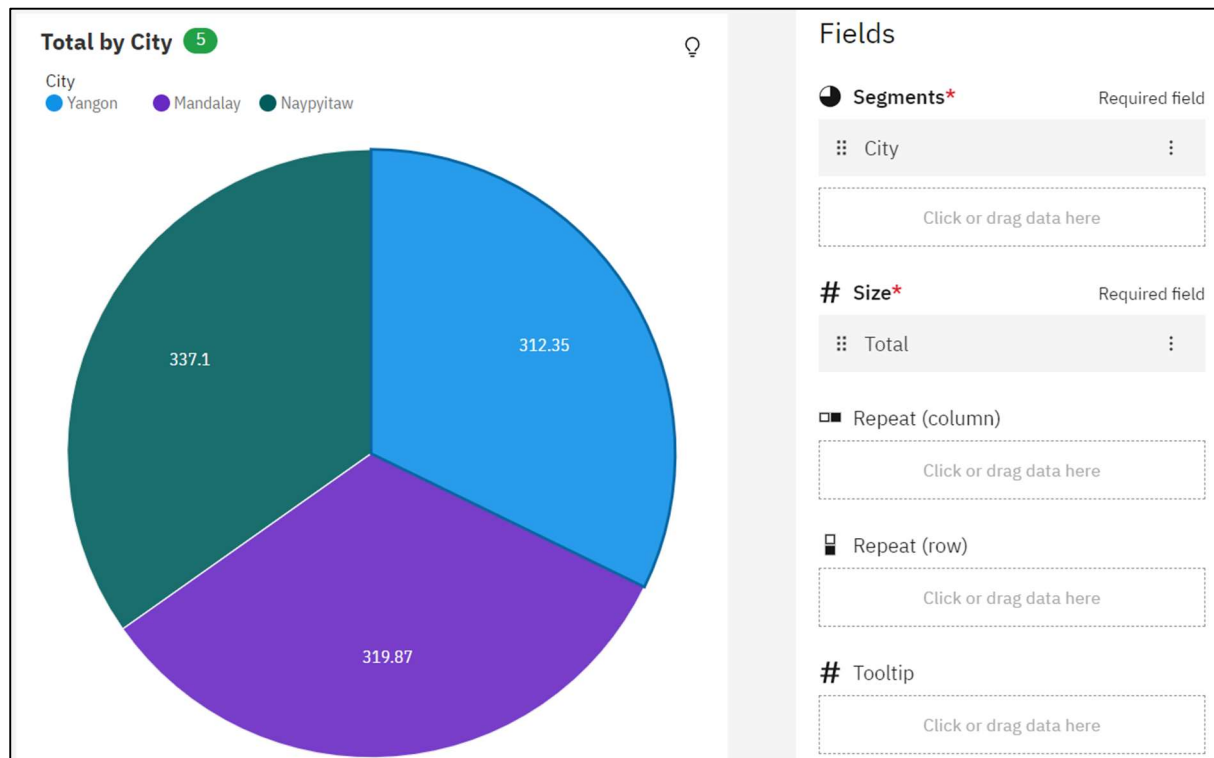
Total for City regions and City points



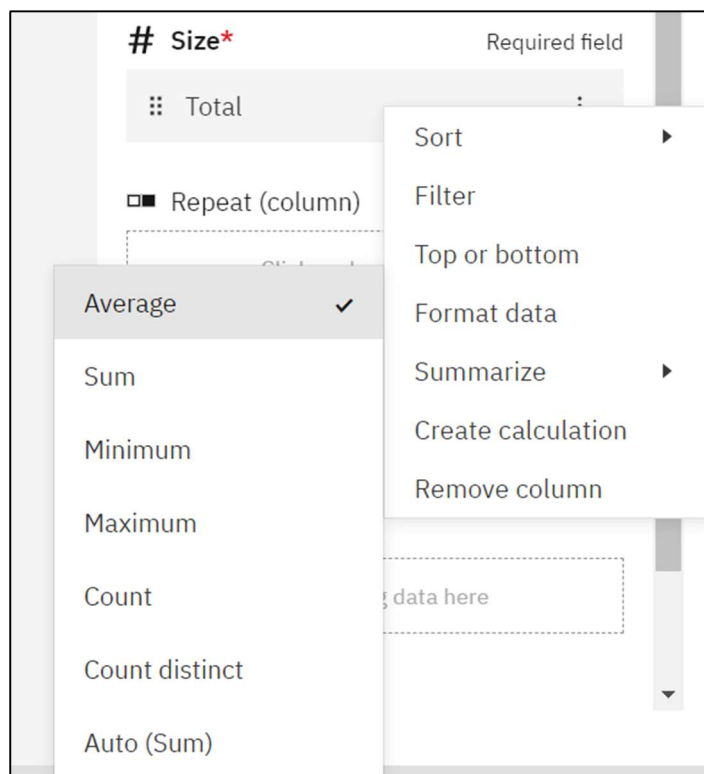
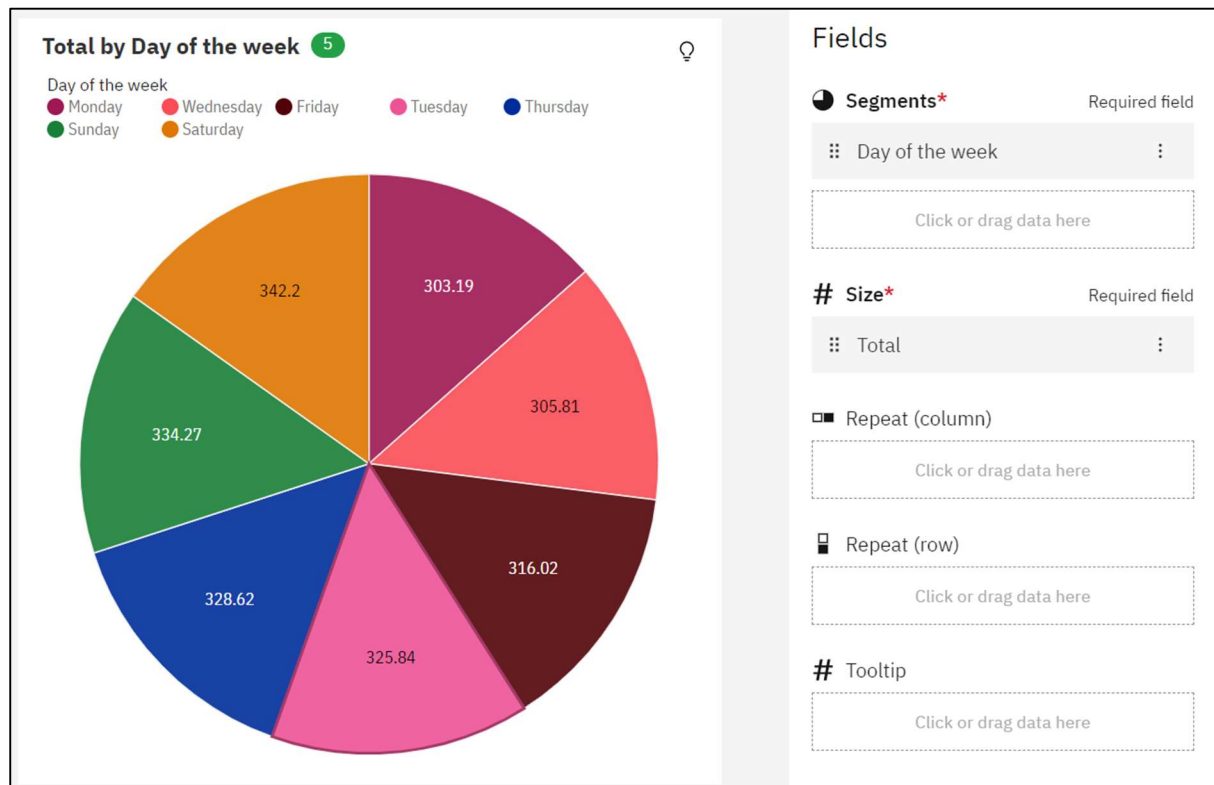
Total for City hierarchy



Total by City



Total by Day of the week



Gross income by Day of the week

