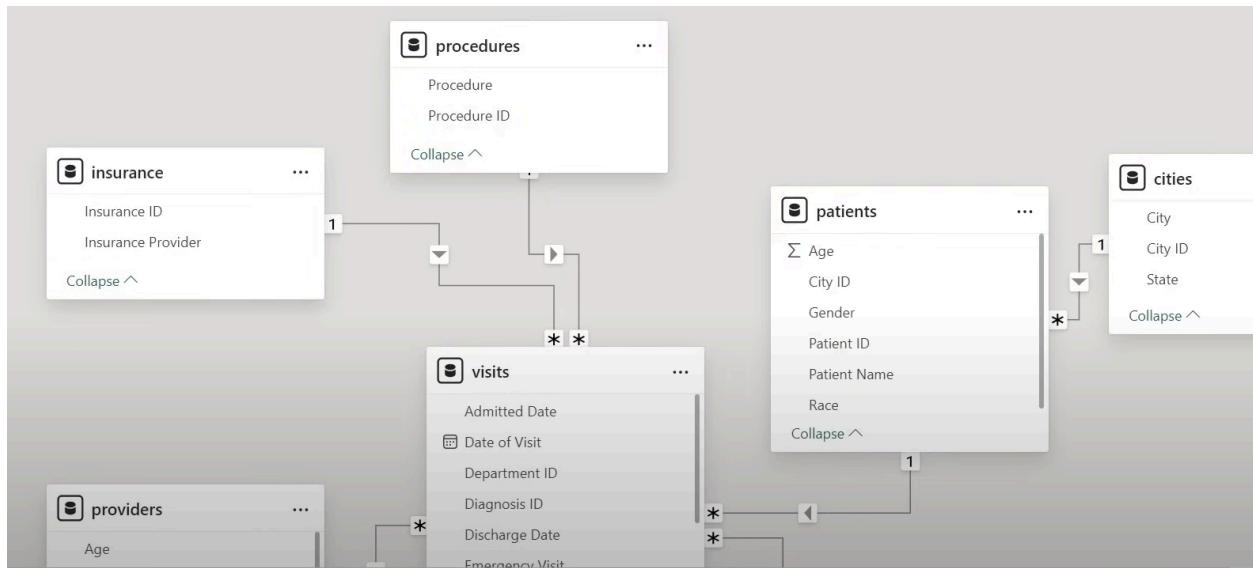


## Health Care Power BI Dashboard

- 1) Data Download
- 2) Off auto date/time from current file and from Global
- 3) Create data modelling



- 4) Create Date table

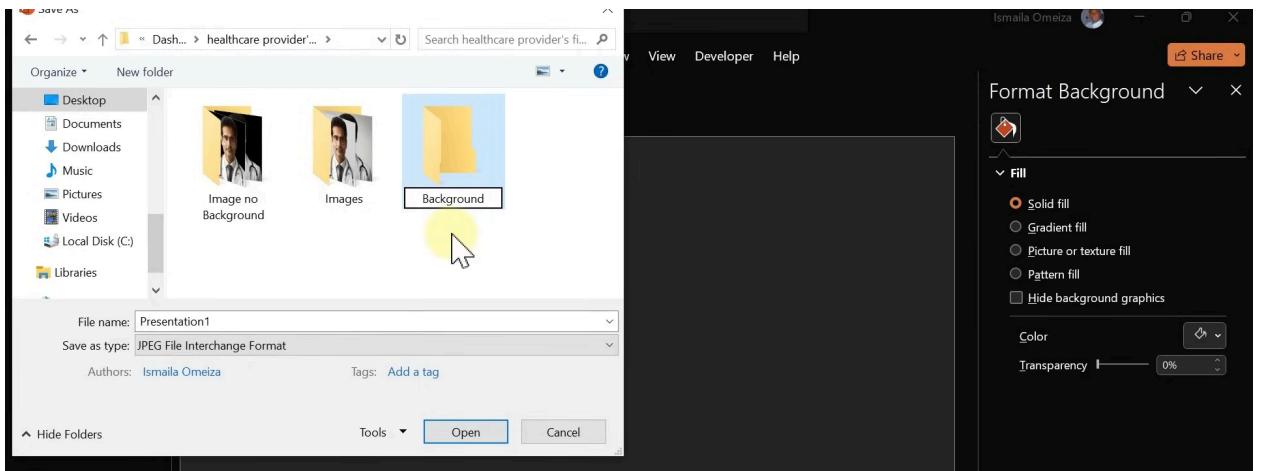
The screenshot shows the Power BI Model view interface with the following DAX code:

```
1 DateTable =  
2 ADDCOLUMNS(  
3     CALENDARAUTO(),  
4     "Year", YEAR([Date]),  
5     "Month", FORMAT([Date], "mmm"),  
6     "Monthnum", MONTH([Date]),  
7     "Weekday", FORMAT([Date], "ddd"),  
8     "Weeknum", WEEKDAY([Date]),  
9     "Qtr", "Q-" & FORMAT([Date], "Q"),  
10    "WeekType", IF(WEEKDAY([Date])=1 || WEEKDAY([Date])=7,  
11        "Weekend", "Weekday")  
12 )
```

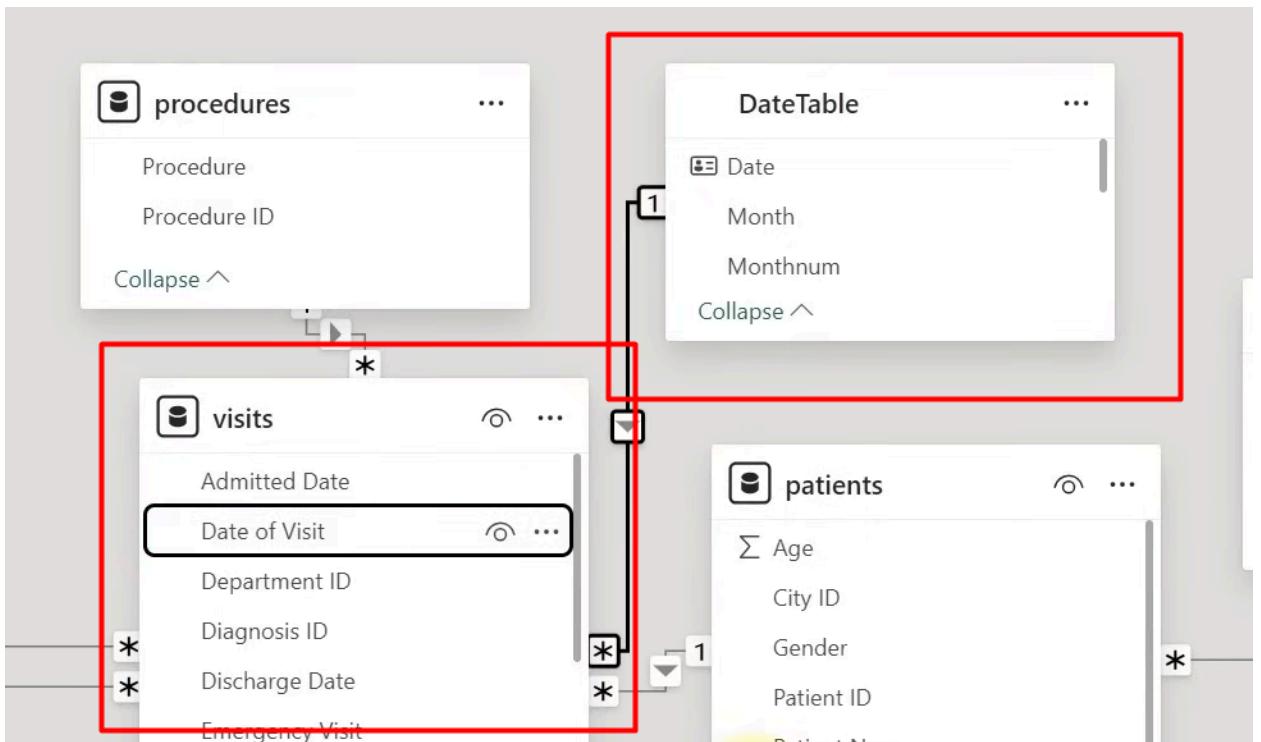
Below the code, a preview table displays the generated columns for a single row:

Date	Year	Month	Monthnum	Weekday	Weeknum	Qtr	WeekType
1/1/2024	2024	Jan	1	Mon	1	Q-1	Weekday

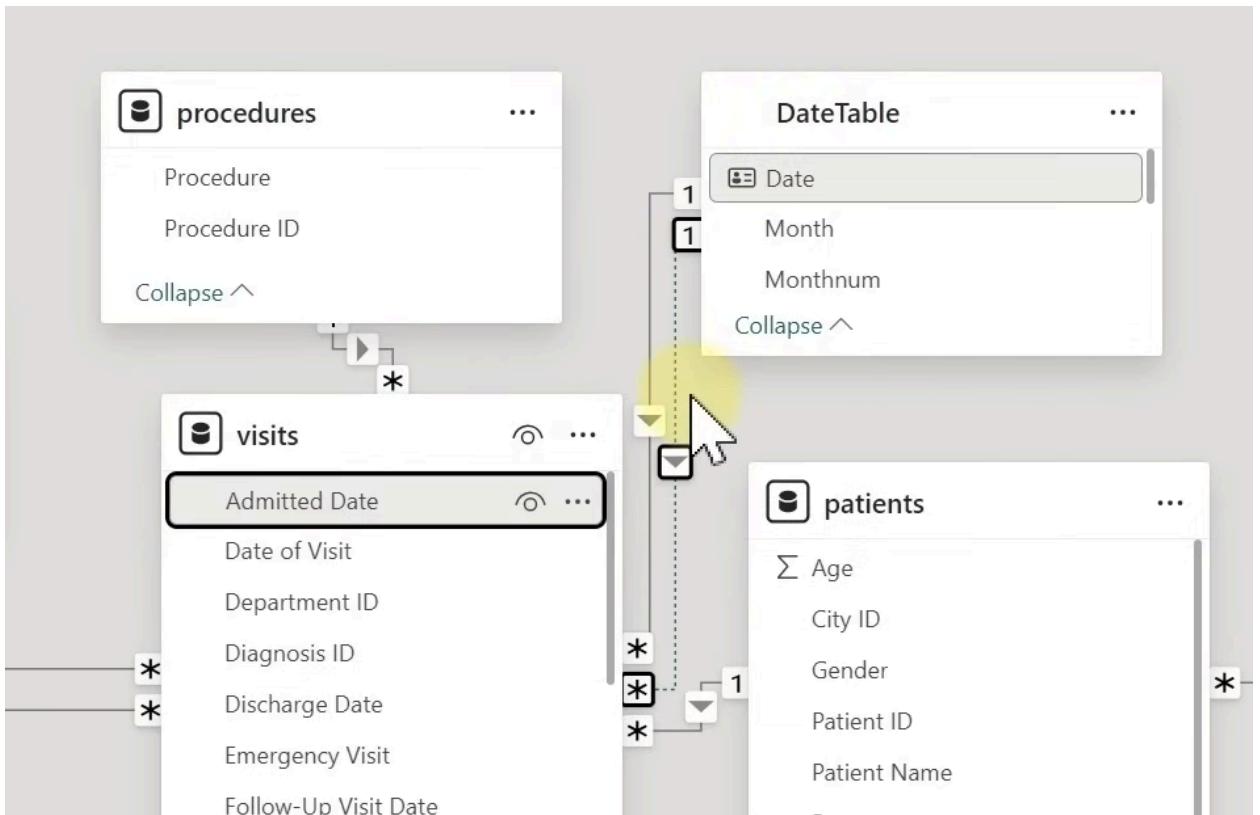
- 5) Background



## Active Relationship



## Inactive relationship



6) KPIs

- **Billing Amount**
- **Medication Cost**
- **Treatment Cost**
- **Total Insurance**
- **Room Charges**
- **Out-of-Pocket**

picture | Formatting | Properties | Cal

```

1 Total Insurance Coverage =
2     SUM(visits[Insurance Coverage])

```

1 Length of Stay =  
2 DATEDIFF(  
3 visits[Admitted Date],  
4 visits[Discharge Date],  
5 DAY  
6 )

Payment Status Discharge Date Admitted Date Room Type Insurance Coverage Room Charges(daily rate) Length of Stay

Pending			Private Room	563.5	50	
Pending			Private Room	422.1	50	
Paid			General Ward	543.2	10	
Pending			Semi-Private Room	577.5	30	
Paid			Semi-Private Room	212.8	30	
Pending			Semi-Private Room	373.1	30	
Paid			Semi-Private Room	408.1	30	

Data

Search

> cities

> DateTable

✓ DAX Calculation

Sort ascending

Sort descending

Clear sort

Clear filter

Clear all filters

Number filters

Search

(Select all)

(Blank)

### Calculated Column

1 Column = visits[Room Charges(daily rate)] \* visits[Length of Stay]

Payment Status Discharge Date Admitted Date Room Type Insurance Coverage Room Charges(daily rate) Length of Stay Column

	Monday, November 1	Wednesday, Novemb	General Ward	318.5	10	5	50
	Tuesday, November 1	Wednesday, Novemb	General Ward	329	10	6	60

### Measure

```

1 Total Room Charges =
2 SUMX(visits,
3     visits[Room Charges(daily rate)] * visits
4     [Length of Stay]
4 )

```

```
1 Total Billing Amount =  
2   [Total Medication cost] +  
3   [Total Room Charges] +  
4   [Total Treatment Cost]
```

---

```
1 Out-of-Pocket = [Total Billing Amount] -  
                  [Total Insurance Covered]
```

```
1 Average Treatment Cost = AVERAGE(visits[Treatment  
Cost])
```

---

```
1 Total Patients = DISTINCTCOUNT(visits[Patient ID])
```

```
1 average Billing Amount per visit =  
2   DIVIDE(  
3   |   |   [Total Billing Amount],  
4   |   |   [Total Patients]  
5   )
```

```
1 average Out-of-Pocket =  
2   DIVIDE(  
3   |   |   [Out-of-Pocket],  
4   |   |   [Total Patients]  
5   )
```

The screenshot shows the Power BI interface with the 'Properties' pane on the left and the 'Data' pane on the right.

**Properties pane:**

- Home table:** DAX Calculation
- Description:** Enter a description
- Synonyms:** Enter a comma-separated list of synonyms for Q&A
- Display folder:** Average Measures

**Data pane:**

- Tables:** Model
- Search:** Search
- DAX Calculation:**
  - average Billing Amount per visit
  - Average Insurance Coverage
  - Average length of Stay
  - Average Medication Cost
  - average Out-of-Pocket
  - Average Patient Satisfaction Score
  - Average Treatment Cost
- Basic Measures:**
  - Column1
  - Total Patients
- departments:**

## Analyze the Total Billing Amount by State and City

The screenshot shows the Power BI Fields pane on the right side of the interface.

**Fields pane:**

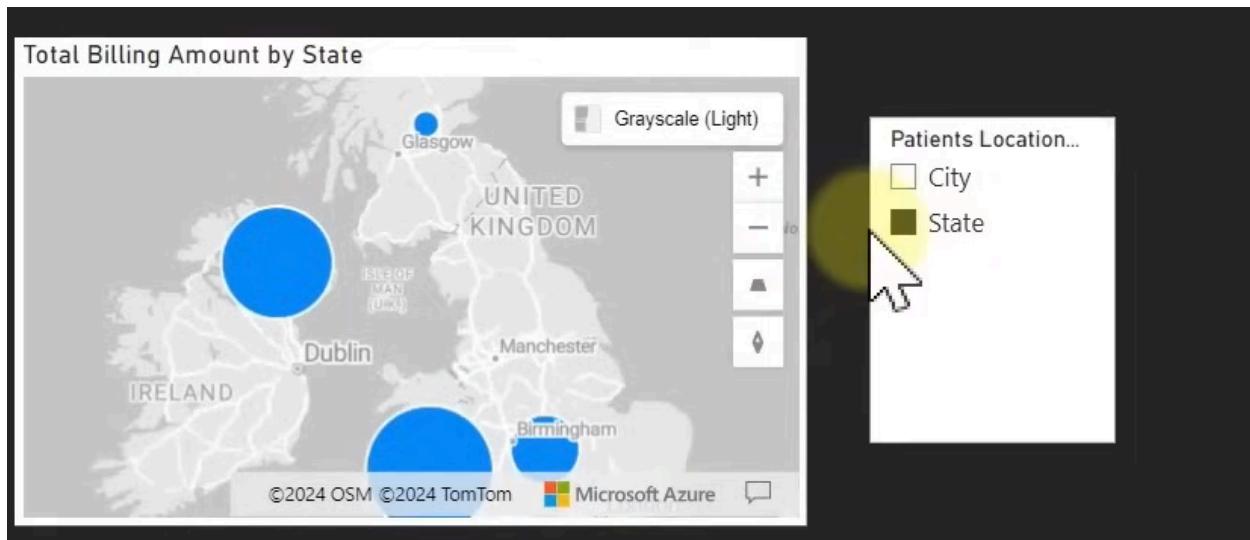
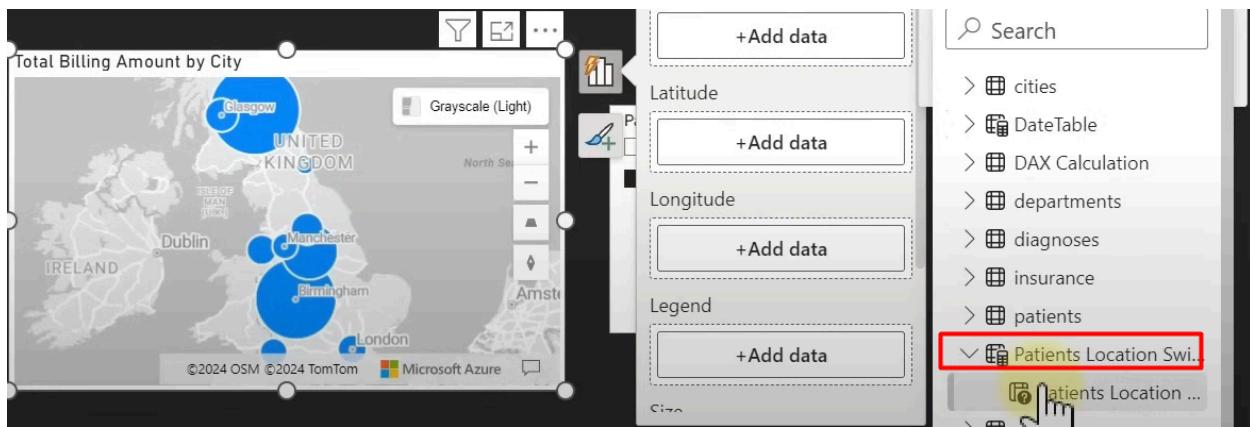
- Search:** Search
- cities:**
  - City
  - City ID
  - State
- Table:** Table
- DAX Calculation:** DAX Calculation
- departments:** departments
- diagnoses:** diagnoses
- insurance:** insurance
- patients:** patients
- procedures:** procedures
- providers:** providers

**Left pane (Parameter creation):**

- What will your variable adjust?**: Fields
- Name:** Patients Location Switch
- Add and reorder fields:**
  - City
  - State
- Add slicer to this page

**Buttons at the bottom:**

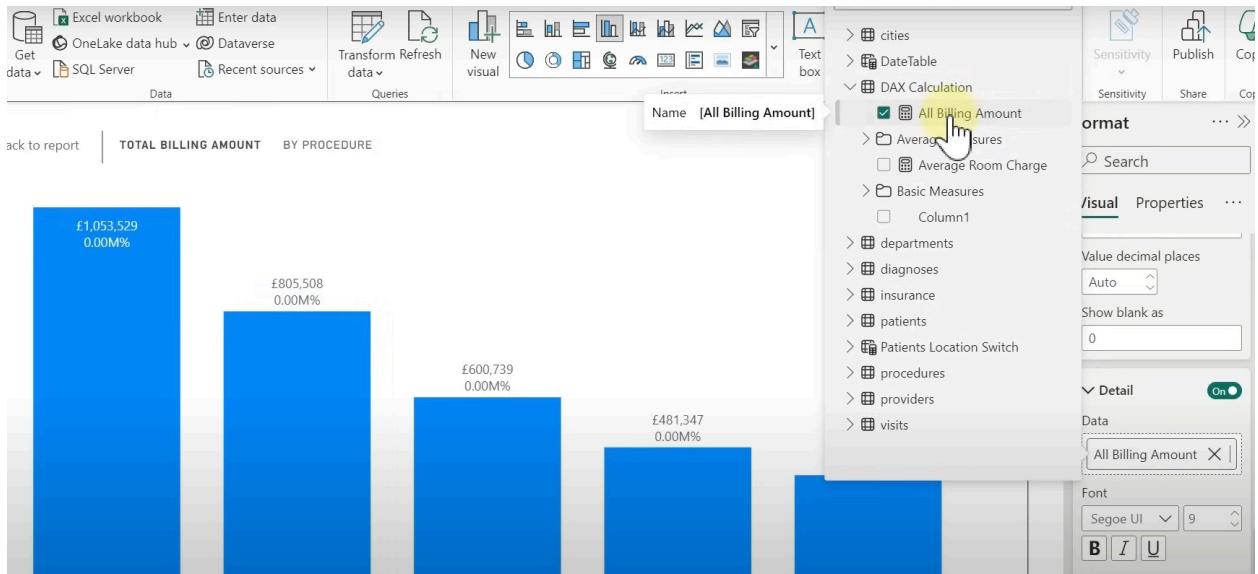
- Create
- Cancel



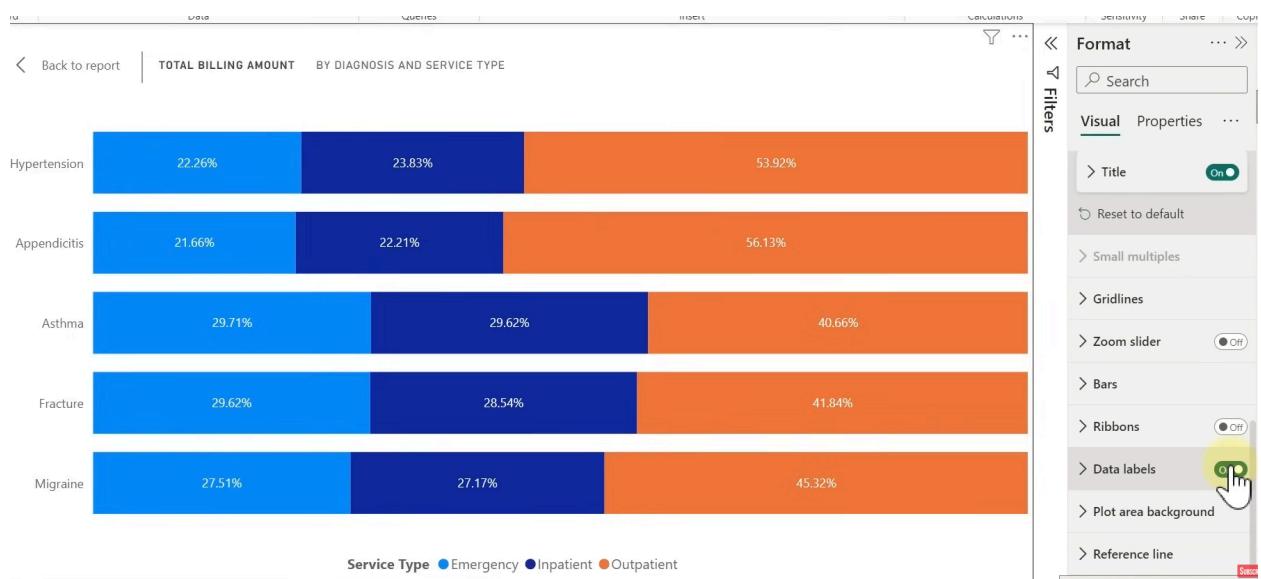
Total Billing Amount by Procedure with the percentage of Grand Total

X ✓	1 All Billing Amount =
< Back to	2 CALCULATE(
Procedure	3 [Total Billing Amount],
X-Ray	4 ALL(procedures[Procedure])
	5 )
CT Scan	£805,508 3356075
MRI Scan	£600,739 3356075
Ultrasound	£481,347 3356075
Blood Test	£414,952 3356075
<b>Total</b>	<b>£3,356,075 3356075</b>

X ✓	1 All Billing Amount =
< Back to	2 DIVIDE(
Procedure	3 [Total Billing Amount],
X-Ray	4 CALCULATE(
CT Scan	5 [Total Billing Amount],
	6 ALL(procedures[Procedure])
MRI Scan	7 )
Ultrasound	8 )
Blood Test	£414,952 12%
<b>Total</b>	<b>£3,356,075 100%</b>



## Total Billing Amount by Diagnosis and service type



## Total Billing Amount by Department with Pct of Grand Total

