

Use the CALCULATE function in DAX to apply filters to measures in Power BI Desktop.

Open the **Music Tours - Calculate More Filters.pbix** file in the exercise folder. The report contains a matrix with a measure which counts the number of shows for each concert tour.

Create a measure which calculates the percentage of shows which took place in venues which have since been demolished. You can use the **Venue[Demolition date]** column to determine whether it has been demolished or not.

Add a measure to calculate the percentage of shows held in venues which have been closed but not yet demolished, and another measure to show the percentage of shows held in venues which are still open.

Artist	Count shows	% shows in demolished venues	% shows in closed undemolished venues	% shows in open venues
Bruce Springsteen	830	15.30%	3.25%	81.45%
Wrecking Ball World Tour	134	2.24%	1.49%	96.27%

A surprisingly low percentage of demolished venues for this tour.

Create a measure to calculate the percentage of cancelled shows.

The **Cancelled** column in the **Show** table has a value of **1** if a show was cancelled.

Create two more measures to calculate the number of shows which mention **COVID** in the **Cancellation reason** column as:

- A percentage of shows.
- A percentage of cancelled shows.

*You can use the **CONTAINSSTRING** function to check if one string contains another.*

The function isn't case-sensitive and its syntax is:

CONTAINSSTRING(Text to look in, Text to look for)

Apply formatting and add the measures to the matrix visual.

Artist	Count shows	% cancelled shows	% of all shows cancelled due to COVID	% of cancelled shows cancelled due to COVID
Cher	440	7.05%	5.00%	70.97%
Here We Go Again Tour	109	22.02%	20.18%	91.67%

Create a measure to calculate the percentage of shows with unsold tickets. You can compare the **Tickets available** and **Tickets sold** columns to do this. Make sure to only compare rows which have a value in both columns.

Add two more measures to calculate the sum and average number of unsold tickets.

Add a final measure to calculate the percentage of unsold tickets.

Artist	Count shows	% of shows with unsold tickets	Sum unsold tickets	Avg unsold tickets	% unsold tickets
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☐ AC/DC	274	19.71%	290,436	5,378.44	3.07%
Black Ice World Tour	176	21.02%	208,092	5,624.11	3.89%
Rock or Bust World Tour	98	17.35%	82,344	4,843.76	2.00%

Save and close the report.