

# Exercise

## Query context

1. *Choose some data points in the demo report*
2. *What selections is this result based on?*
3. *What filters are present?*

# Exercise

## *Modeling in Power BI – Column store compression*

1. Start a new Power BI file
2. Load the file *fSales.txt* with all data included
3. Save the pbix file, and compare the file sizes

# Exercise

## *Modeling in Power BI – model structure*

1. Consider your own business
2. Which are relevant facts?
3. Which are relevant filter attributes?
4. If you have multiple facts and filters: how do these relate?

# Exercise

## *Modeling in Power BI – Training Model I*

1. In your model, create all relevant relationships
2. Determine which columns should have a non-default sort order, and apply these
3. Add metadata where appropriate
4. Create some output for your model

# Exercise

## Calculated columns

1. *In the fSales table, create a calculated column to compute the transaction amount*
2. *Create a calculated column to compute the average number of items per transaction*
3. *Create a calculated column that displays the name of the product sold (hint: use the **RELATED()** function)*

# Exercise

## Measures

1. *Create a measure to compute the total revenue*
2. *Create a measure to compute the total number of items sold*
3. *Create a measure to compute the average price*

*Use your measures in a report to see results!*

*Note: each measure should work in each (relevant) context*

# Exercise

## Filtering with `CALCULATE()`

1. *Create a measure to compute the revenue for all products, whatever the context is*
2. *Create a measure to compute the percentage of the revenue for a product (or group of products) compared to all products*

# Exercise

## Filtering with `CALCULATE()`

1. *Create a measure to compute, in any context, the revenue on the product with ProductNr 303*



# Exercise

## ALLSELECTED()

1. *Create a measure to compute the percentage of the revenue for a product (or group of products) compared to all products in the visual*

# Exercise

## CALCULATE()

1. *Create a measure to compute the value of goods delivered*
2. *Create a measure that returns the revenue on product 304, only if that product is in the context*

# Exercise

## Time intelligence

1. *Create a measure to compute the year-to-date revenue*
2. *Create a measure to compute the year-on-year revenue growth percentage*
3. *Create a measure to compute the 12-month rolling total revenue – DATESINPERIOD()*
4. *Create a measure to compute the cumulative total revenue – since the beginning of time – DATESBETWEEN()*