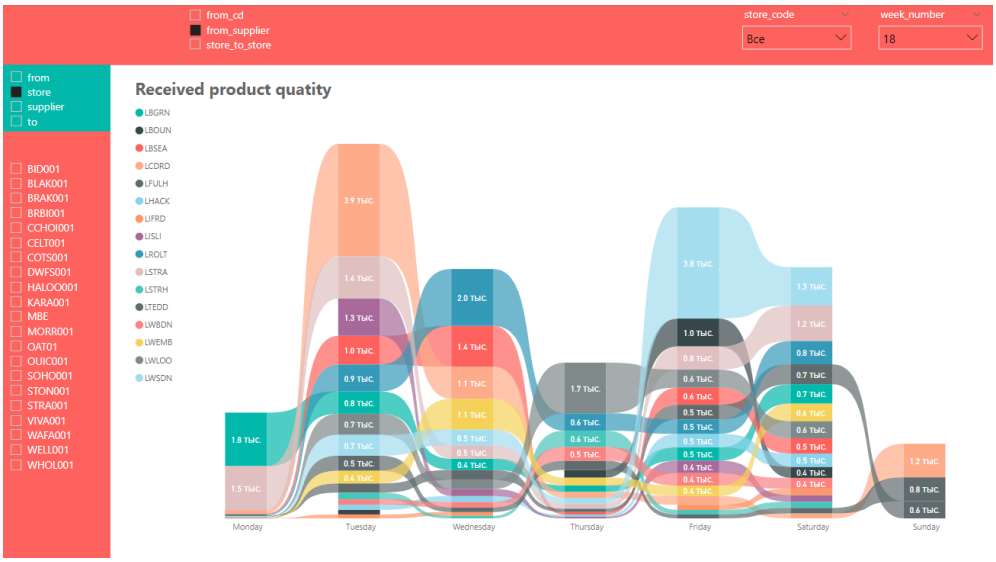
Delivery pressure. Power BI report



Sponsor: replenishment team.
Goal: to monitor pressure in quantity of incoming goods to optimize delivery schedule.
Data source: downloading from ERP system Odoo:

- purchase orders,
- inventory/stock moves

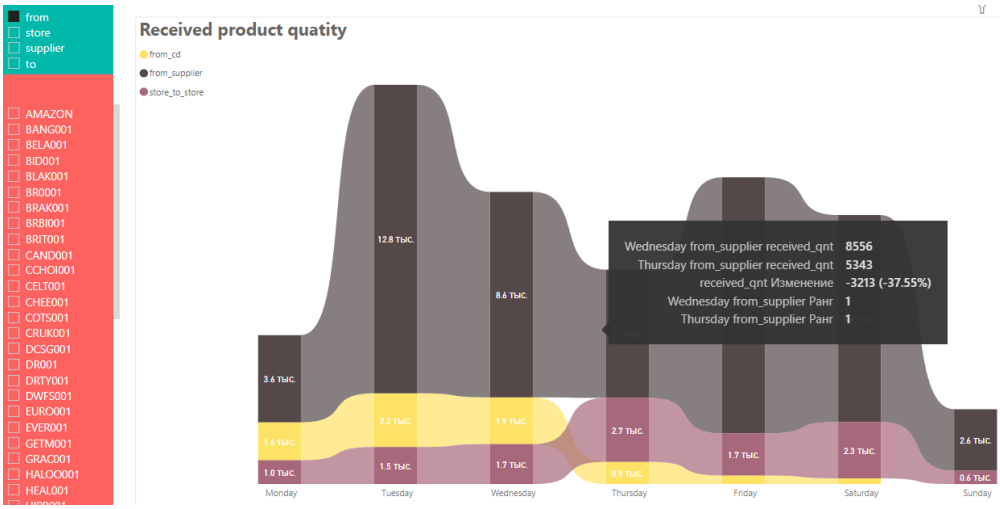
Steps: picked data, downloaded, processed, visualized.
I couldn't filter odoo data on download step, so all the processing made in M.

Filters (up to down)**:**

1. By type:
   a. from_cd = from crossdock;
   b. from_supplier;
   c. store_to_store.
2. By store.
3. By week number.
4. Slicer:
   a. from = type;
   b. store;
   c. supplier;
   d. to – dts = to store,
      cd = to crossdock.
5. By supplier.

```
let
    Источник = Excel.Workbook(File.Contents("C:\Users\Acer\Documents\Job_searching\BI\pressure\stock.move.line.xlsx"), null, true),
    Sheet1_Sheet = Источник{[Item="Sheet1",Kind="Sheet"]}[Data],
    #"Повышенные заголовки" = Table.PromoteHeaders(Sheet1_Sheet, [PromoteAllScalars=true]),
    #"Измененный тип" = Table.TransformColumnTypes(#"Повышенные заголовки",{{"Reference", type text}, {"Date", type datetime}, {"From", type t
    #"Строки с примененным фильтром" = Table.SelectRows(#"Измененный тип", each ([#"Product/Supplier"] <> null)),
    #"Удаленные столбцы" = Table.RemoveColumns(#"Строки с примененным фильтром",{"Product/Supplier"}),
    #"Разделить столбец по разделителю" = Table.SplitColumn(#"Удаленные столбцы", "From", Splitter.SplitTextByDelimiter("/", QuoteStyle.Csv),
    #"Измененный тип1" = Table.TransformColumnTypes(#"Разделить столбец по разделителю",{{"From.1", type text}, {"From.2", type text}, {"From.
    #"Разделить столбец по разделителю1" = Table.SplitColumn(#"Измененный тип1", "To", Splitter.SplitTextByDelimiter("/", QuoteStyle.Csv), {"T
    #"Измененный тип2" = Table.TransformColumnTypes(#"Разделить столбец по разделителю1",{{"To.1", type text}, {"To.2", type text}, {"To.3", t
    #"Строки с примененным фильтром1" = Table.SelectRows(#"Измененный тип2", each not Text.Contains([To.2], "CHAR")),
    #"Строки с примененным фильтром2" = Table.SelectRows(#"Строки с примененным фильтром1", each not Text.Contains([From.2], "CHAR")),
    #"Строки с примененным фильтром3" = Table.SelectRows(#"Строки с примененным фильтром2", each not Text.Contains([To.2], "Intup-Xdock")),
    #"Разделить столбец по разделителю3" = Table.SplitColumn(#"Строки с примененным фильтром3", "To.2", Splitter.SplitTextByEachDelimiter({" "
    #"Измененный тип3" = Table.TransformColumnTypes(#"Разделить столбец по разделителю3",{{"To.2.1", type text}, {"To.2.2", type text}}),
    #"Добавлен пользовательский объект" = Table.AddColumn(#"Измененный тип3", "To", each if Text.Contains([From.1], "LCDRD") then [To.3] else
if Text.Contains([To.2.1], "Store Transfer") then [To.2.2] else
if Text.Contains([To.2.1], "Transit") then [To.3] else
if Text.Contains([To.1], "Physical Locations") then [To.2.2] else [To.1]),
    #"Строки с примененным фильтром5" = Table.SelectRows(#"Добавлен пользовательский объект", each ([To] <> "LDCRD")),
    #"Удаленные столбцы1" = Table.RemoveColumns(#"Строки с примененным фильтром5",{"To.3", "To.2.2", "To.2.1", "To.1"}),
    #"Замененное значение" = Table.ReplaceValue(#"Удаленные столбцы1","Store Transfer ","",Replacer.ReplaceText,{"From.2"}),
    #"Разделить столбец по разделителю2" = Table.SplitColumn(#"Замененное значение", "From.2", Splitter.SplitTextByDelimiter(" > ", QuoteStyle
    #"Измененный тип4" = Table.TransformColumnTypes(#"Разделить столбец по разделителю2",{{"From.2.1", type text}, {"From.2.2", type text}}),
    #"Удаленные столбцы2" = Table.RemoveColumns(#"Измененный тип4",{"From.2.2"}),
    #"Пользовательский объект" = Table.AddColumn(#"Удаленные столбцы2", "From", each if Text.Contains([From.2.1],"Transit") then [From.3] else
if Text.Contains([From.1], "Physical Locations") then [From.2.1] else [From.1]),
    #"Удаленные столбцы3" = Table.RemoveColumns(#"Пользовательский объект",{"From.3", "From.2.1", "From.1"}),
```

Data processing has been made in M

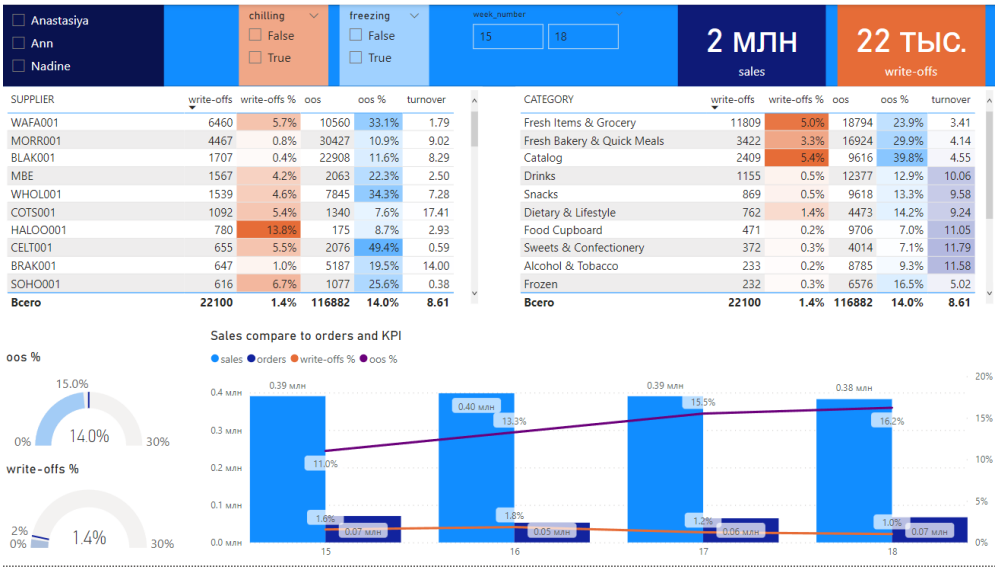


Type of graph: strip chart sorts values by automatically counted rang and shows value changes.

Notes: report can show the delivery pressure by week number for exact store from exact supplier. Or all the deliveries made from crossdock for each store.
Warning: there could be double values for some suppliers because some lines can be switched due to the price or availability conditions.

Warning! Numeric data has been changed to a random value; non-numeric data replaced by codes.

Replenishment KPI. Power BI Dashboard

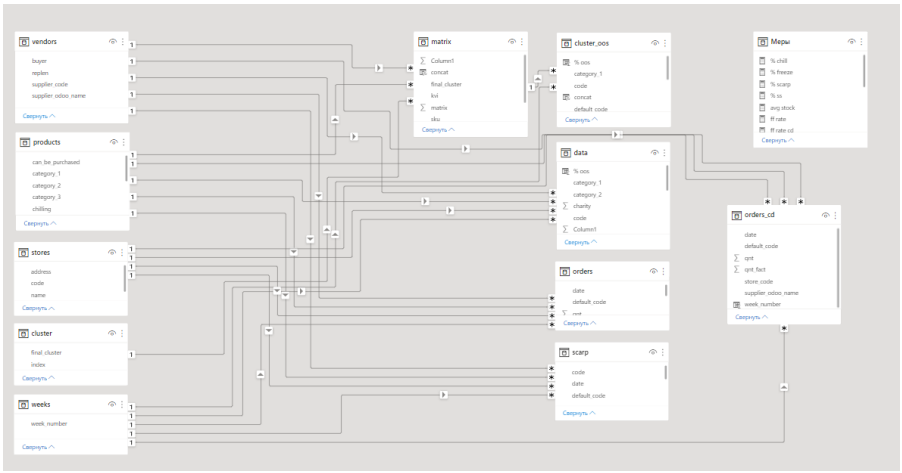


Sponsor: replenishment team.
Goal: to every week KPI monitoring (write-offs, out of stocks).
Data source: downloading from ERP system Odoo and reference files.
Steps: picked data, downloaded, processed, visualized (there was an excel report with the same KPIs but the size of the file was more than 80 Mb which created difficulties in using; Power BI dashboard provides more information and certainly more easy-reading one in the file size of 5 Mb).

Filters (up to down)**:**

1. By employee.
2. By chilling or freezing.
3. By week number.

The hardest part: to find a right visualization to make this dashboard a real day-to-day tool for replenishment team.



Структура данных отчета

Sheet «wb»: the sheet was made to everyday use. In the header there is an info about target value of each KPI and current level with filters applied. Counting an order an employee can see write-offs and out of stocks for each supplier, product category, product line.
Dashboard has information about sales, stock, order quantity for the 4 previous weeks. Moreover, for each line dashboard provides information about package size, expiration period, fulfillment rate as long as write-offs reasons and write-offs quantity by the store.

Warning! Numeric data has been changed to a random value; non-numeric data replaced by codes.