

FROM EXCEL TO REAL TIME INSIGHTS USING DATABRICKS, THOUGHTSPOT & PBI

GET VALUE FROM YOUR DATA

Thomas Nakken

Head of development, data & analytcis

- Europris since September 2021
- Worked in the IT industry since y2k, with different roles such as:
 - Backend developer in Telecom
 - Architect and manager of R&D for SaaS EDI and insight solutions
 - CTO for SaaS in HSE with distributed team in Norway, Mexico and Philippines



Norway's (#1) discount variety retailer



Strong brand and loyal customer base



Low prices and powerful marketing and campaign engine



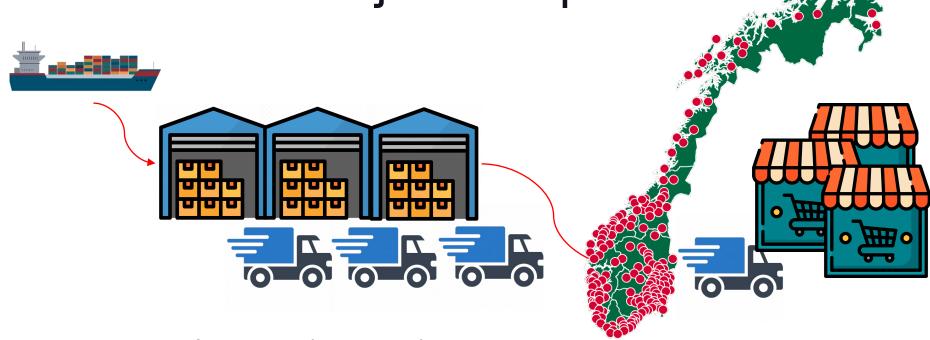
Proven category management model



Expanding store network and e-commerce operation



Business model for Europris



- Import goods from Asia (deep sea)
- One main storage facility
- Drive sales with a well proved campaign machine
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System landscape



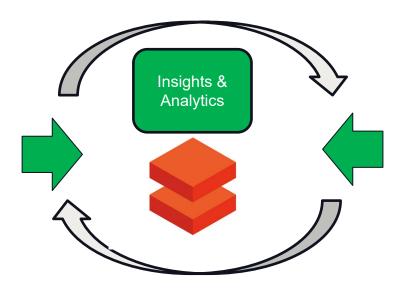
POS PIM System

Store **ERP** Ordering Store **Systems** division

Campagin planning Planogram

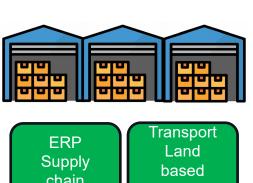
HR Inventory planning

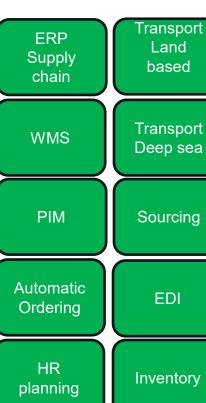
Store



Marketing Web App

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Inventory

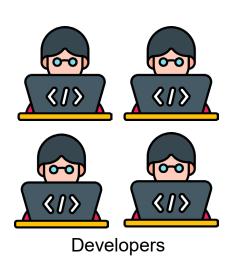
DATA'AI SUMMIT

We're building a cutting-edge cloudbased analytics platform for real-time insights, data-driven decision-making and AI utilization.

CFO: How will it look like in EXCEL?

Build a team for analytics in retail

Our focus when we choose our tech stack







Developers need to master our whole tech stack

No one outside dev team master SQL or python

In the future...

Team of data scientists

Analytcis platform

The way we structured it

Predefined reports and semantic models

Aggregation tables

Tables with SCD2

RAW DATA LAYER

DATA'AI SUMMIT





THE TRIBUNE

THE POOL

THE OCEAN

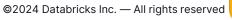
THE POND









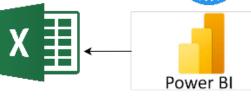






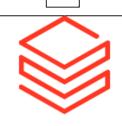


The way we use it

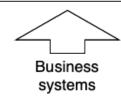






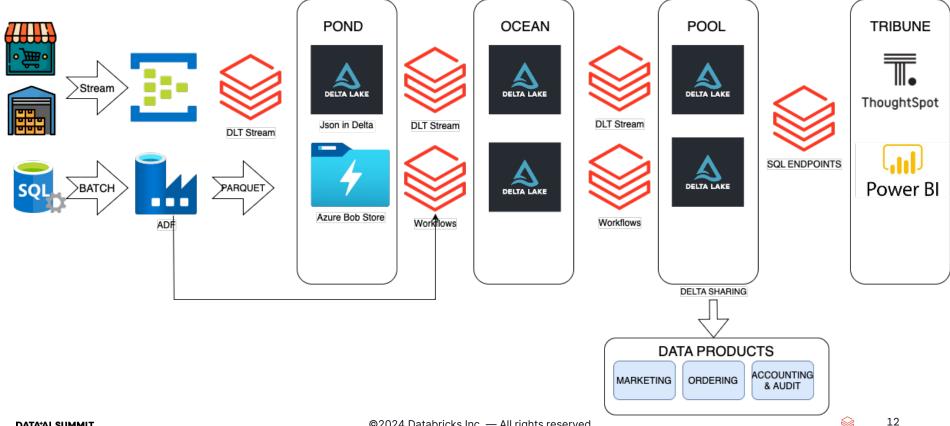






Analytcis platform

The way we built it



Delta Live Tables & Unity Catalog

Be aware of limitations

Delta Sharing (open)

Python libs (whitelisted)

UDF not supported

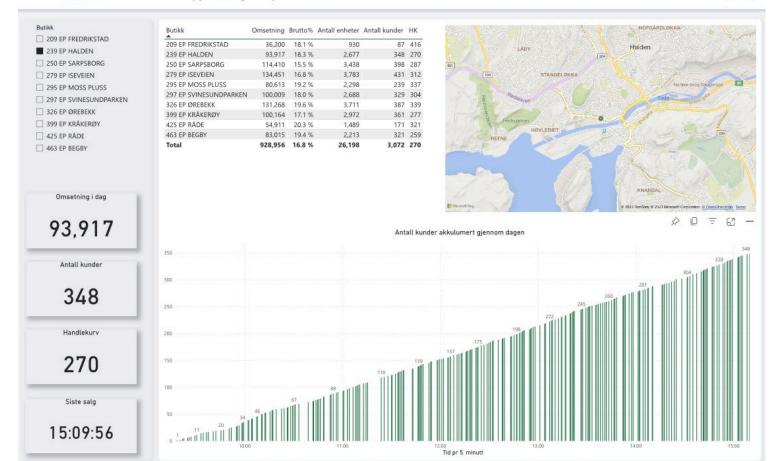
Only delta tabels as sink's

Limited streaming functionality



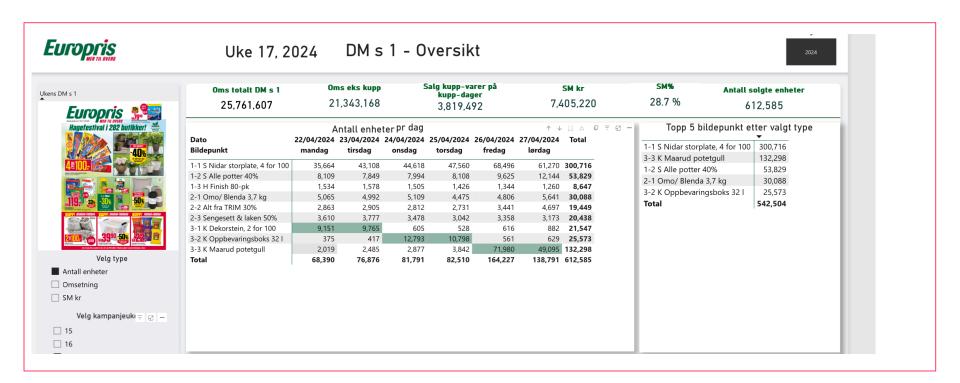


Live oppdatering fra nye, 52 kasser



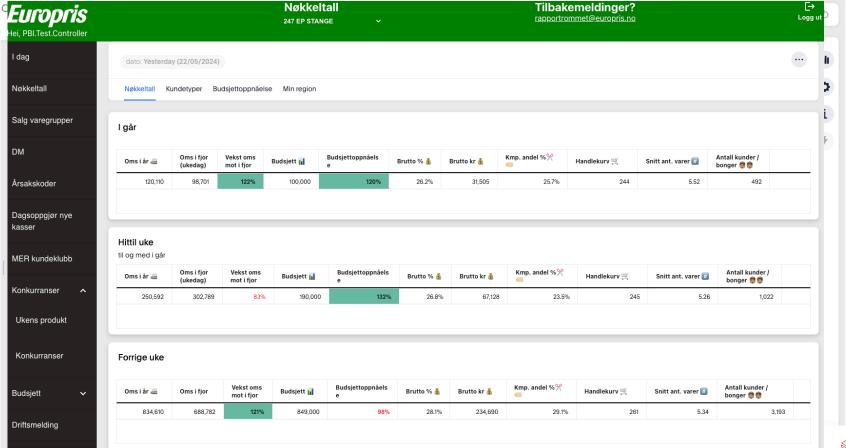
Self service insights

For the Excel people



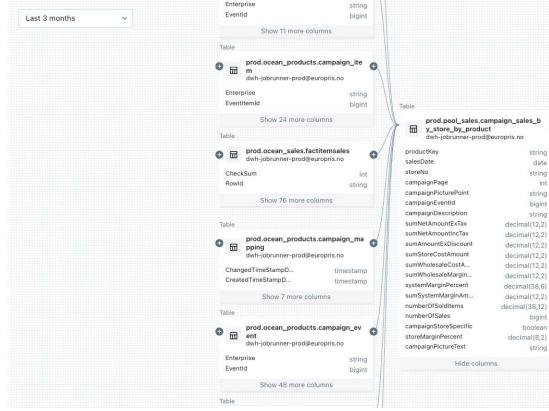
Self service insights *Europris** Nøkkeltall 247 EP STANGE

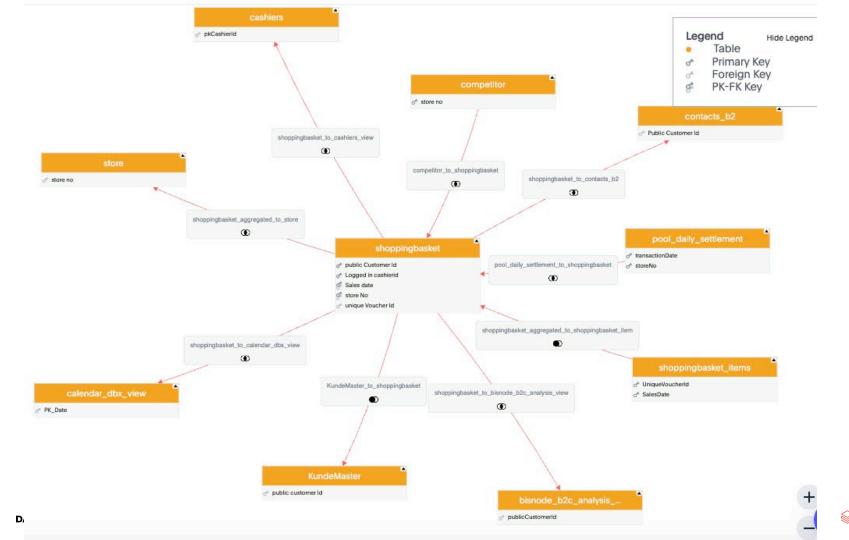
Showing 10 of 10 data points



Aggregated data product

Data Lineage for prod_views.pool_sales.campaign_sales_by_store_by_product_view





KEY LEARING POINTS

Use software developers

- Highly skilled developers can create everything
- Develop code from data collection to aggregated data products
- Driven by the state-of-the-art technology

Design aggregated tables for easy analytics

- Aggregated tables optimized for reading
- Total control trough CI/CD and unit tests
- Minimized risk for bias introduced by analysts

Different tools for different people

- Static report solutions for KPI focused people
- Dynamic insight tools for those who need to understand
- Possibility to use fine grained analytics for data scientist

Next steps...

- Forecasting within product categories
 - Predict what to sell where and when by product categories
- What characterizes the customers who fall into different groups in RFM?
 - Understand why customers fall into different RFM segments
 - What measures can be taken to "save" the customer?
- Price Optimization
 - Was the price right what should we have done what should the right price be.
- Product recommendation

Thank you!

