



VS Electronics Electronics Market

Jessica Baldwin 13 May 2022

E-Commerce

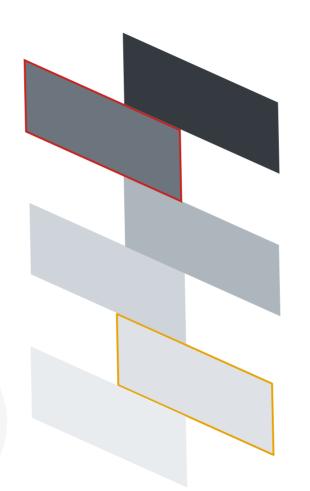
Overview of e-Commerce business model Existing competitors

Database

Design of new RDBMS database Advantages of a RDBMS database versus Excel spreadsheet

Dashboard

Introduction to Tableau View of Tableau dashboard



EDA

Overview of current data as supplied by VSE Improvements to data collection

KPIs

Selection of possible KPIs and their benefits

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E-Commerce Business Model

- Consumers shop and pay online
- 2 categories:
 - Based on types of goods sold
 - Based on the nature of the participants (B2B, B2C, C2B, C2C)

Security

Benefits

- International
- Less overhead
- More consumers in less time
- Comparison shopping







amazon.de

- \$20 000 million
- All revenue from e-commerce
 - Nearly everything
 - Online only



otto.de

- \$5 000 million
- 100 online shops
 - => 74% of all revenue
- Fashion, lifestyle, electronics
- Online and brick-and-mortar stores



zalando.de

- \$2 500 million
- Nearly all revenue from
 e-commerce
- Shoes, fashion, cosmetics
- Online and few outlet stores.



Top 4 Competitors in Electronics in Germany



amazon.de

- \$5 360 million
- e-commerce
- Nearly everything
 - Online only



apple.com

- \$945 million
- All revenue from
 Electronics, software,
 100 online shops online services
 - Online and brick-and- Fashion, lifestyle, mortar stores



otto.de

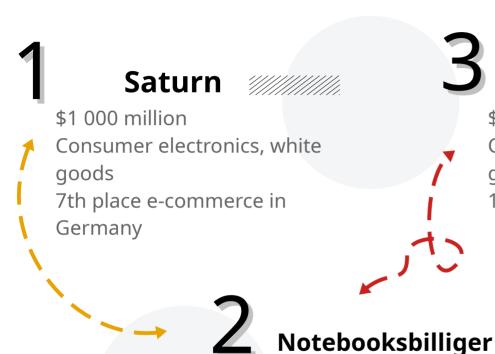
- \$945 million
- => 74% of all revenue
- electronics
- Online and brick-andmortar stores



mediamarkt.de

- \$779 million
- Same holding as Saturn
 - Electronics
- Online and brick-andmortar stores





3 Cyberport

\$750 million Consumer electronics, white goods 12th place

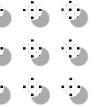


Conrad

\$500 million Consumer and specialist electronics 18th place



- December 2018 (first 3 weeks) – December 2019 (first week)
- 554 417 records
- 5 work sheets
- 4188 distinct products
- 6 product categories



EDA







EDA

- December 2018 (first 3 weeks) – December 2019 (first week)
- 554 417 records
- 5 work sheets
- 4188 distinct products
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- 1 stock code + 2 ASINs
- Unrecorded customer IDs
- Invoice not-timestamp
- Organisation of products

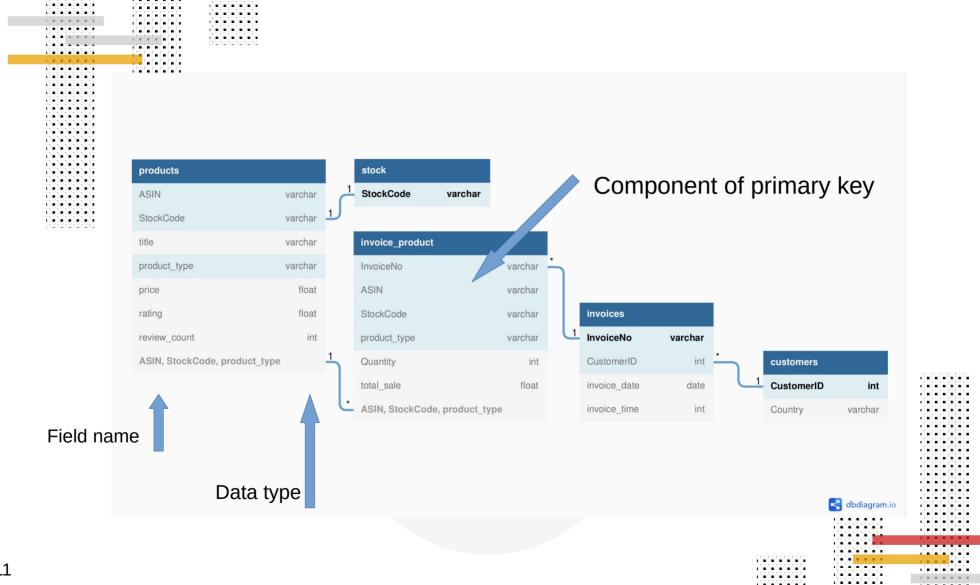
Database Design

Subject-based tables
Eliminate redundant / repeated data
Provide information to link tables (primary key)
Ensure data is entered accurately

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Product Type

Need for greater differentiation of product types in order to see what is being bought

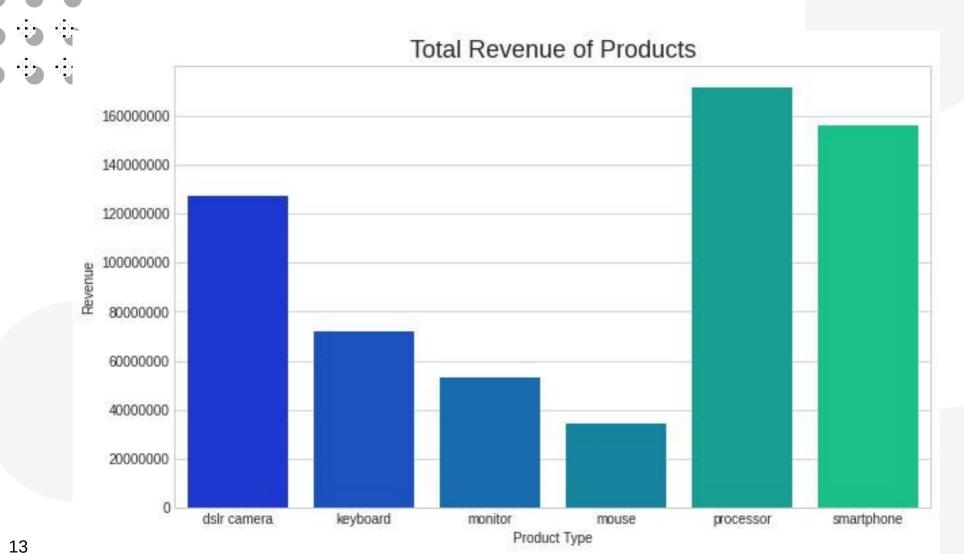


KPIs

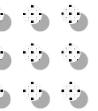


Identify and utilise peaks and slumps in yearly sales volume

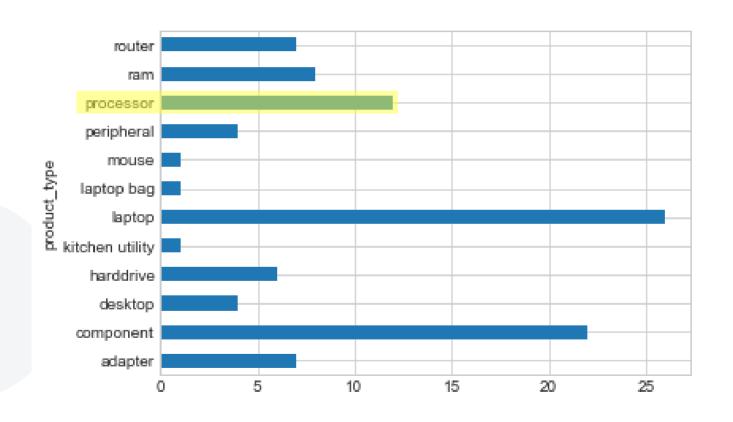








Differentiation of Product Type





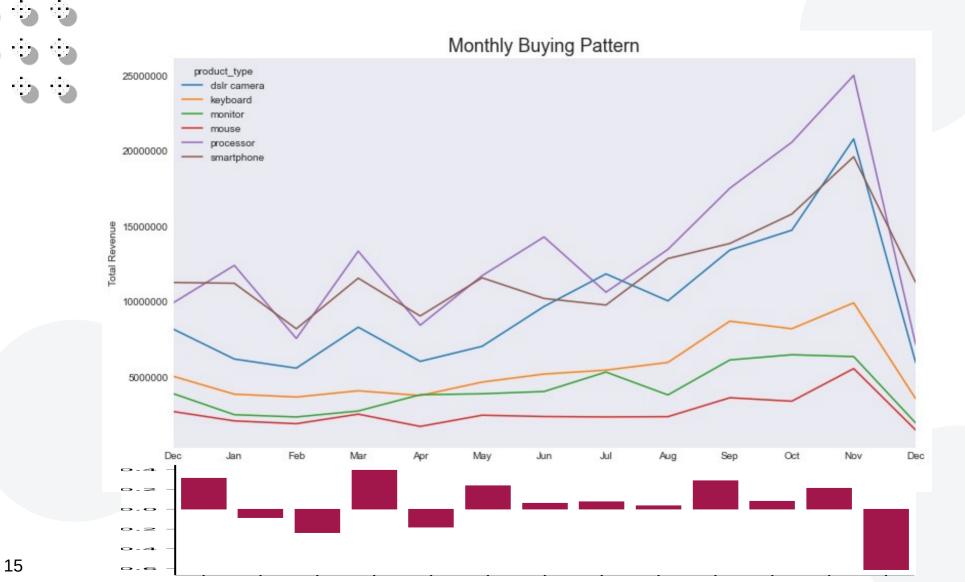




Tableau Dashboard

