Business Intelligence & Big Data Analytics

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DATASET



Coffee Shops Transactions

- >149.116 rows
- >11 columns

- ▶116.789 transactions
- ►1/1/2023 30/6/2023
- > 3 coffee shops

kaggle



COLUMNS T

transaction_id

product_id

store_id

transaction_date

product_category

store_location

transaction_time

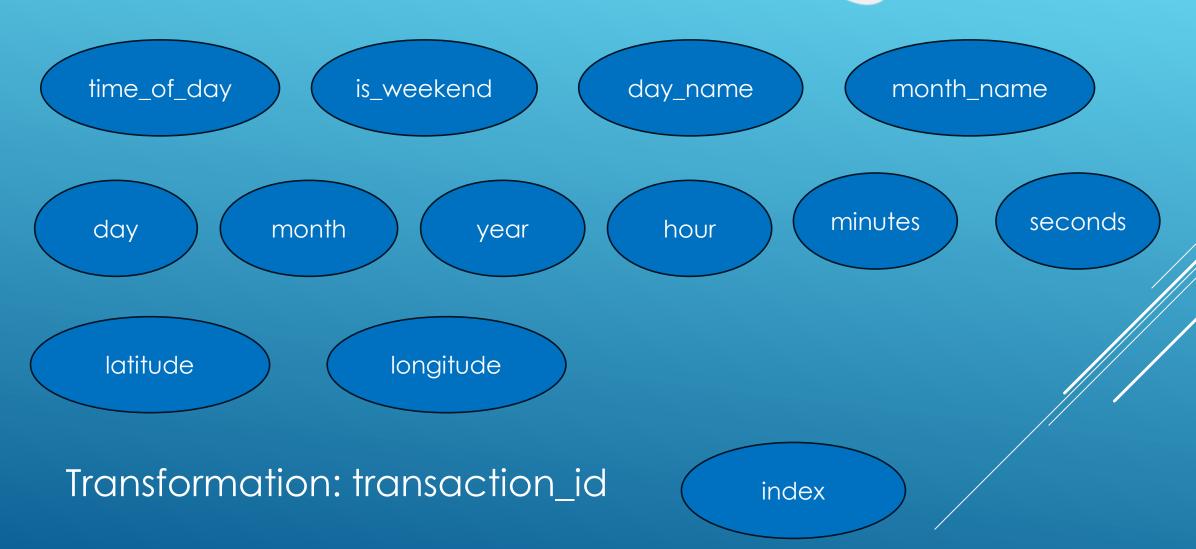
product_type

unit_price

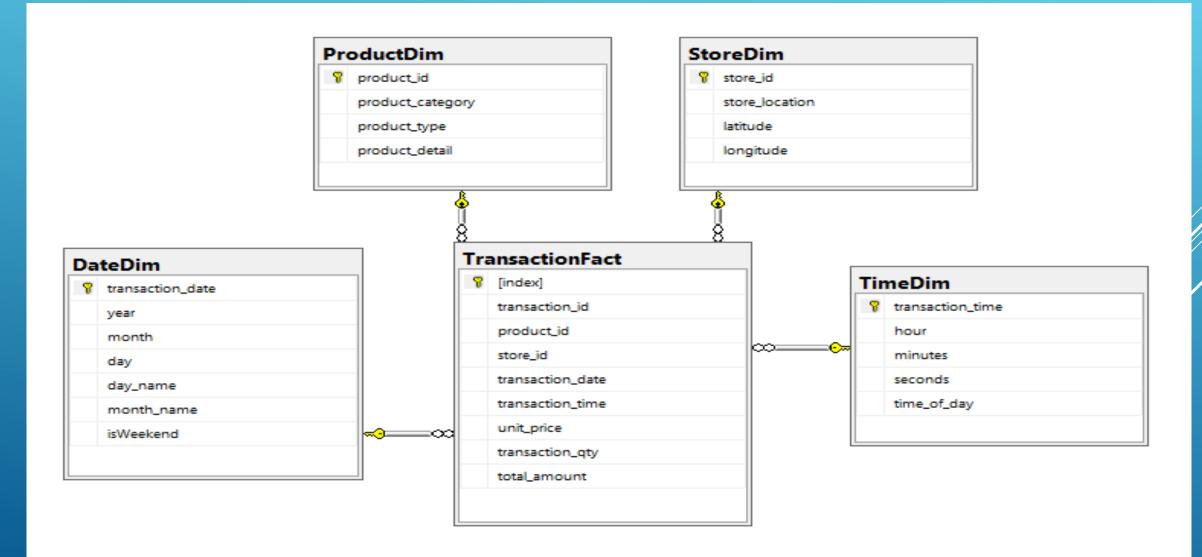
transaction_qty

product_detail

NEW COLUMNS TO



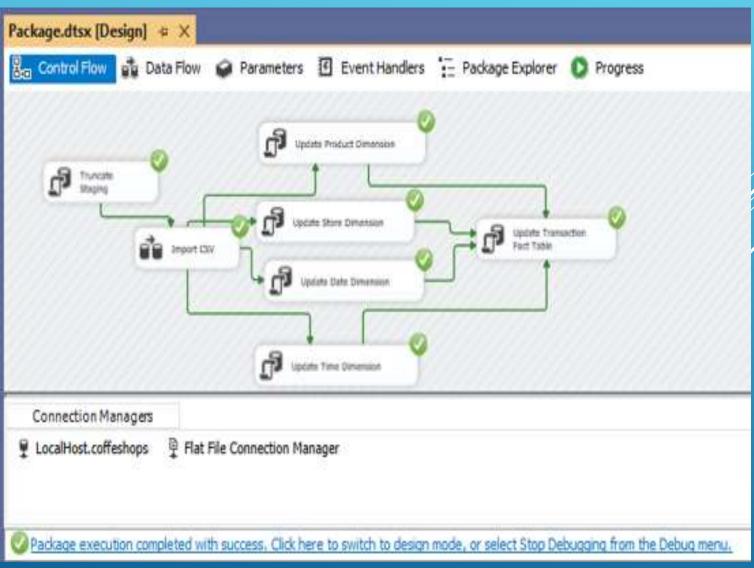
STAR SCHEMA





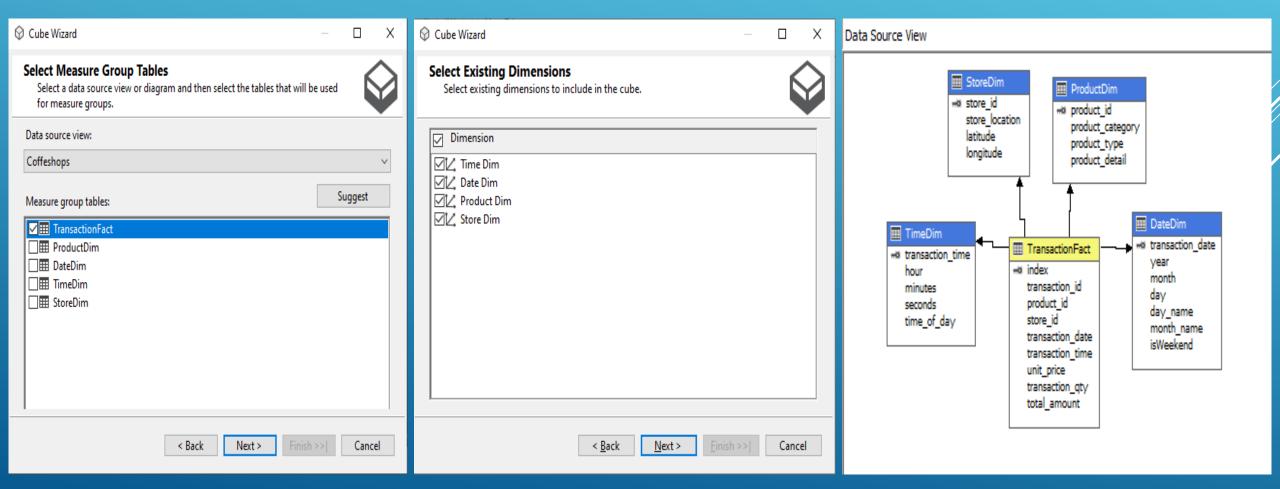
<u>SQL SERVER Integration</u> <u>Services (SSIS)</u>

- ► Truncate Staging Table
- ► Load CSV to Staging Table
- ▶ Update Dimension Tables
- ▶ Update Fact Table





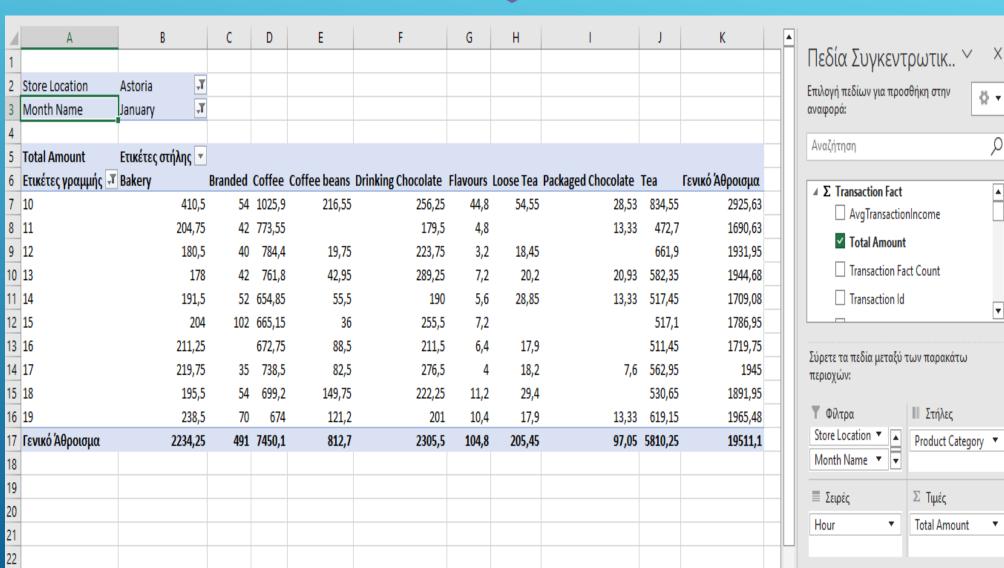
SQL SERVER Analysis Services (SSAS)





Cube Browser (SSAS)

- ▶ January Income
- ► Astoria Store
- **▶** 10.00 19.59
- Per product category



VISUALIZATIONS





VISUALIZATIONS



Filters

- ► Two stores
- Weekends only
- Coffee types units sold







Filters

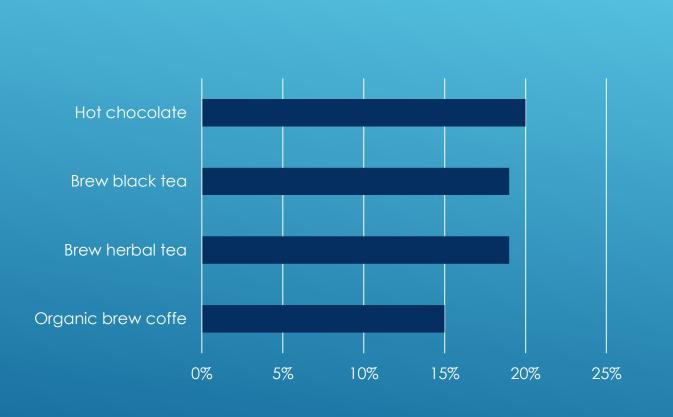
- Drill-downJune
- Morning
- Product
 Types



CLUSTERING

WARM BEVERAGE ENJOYERS







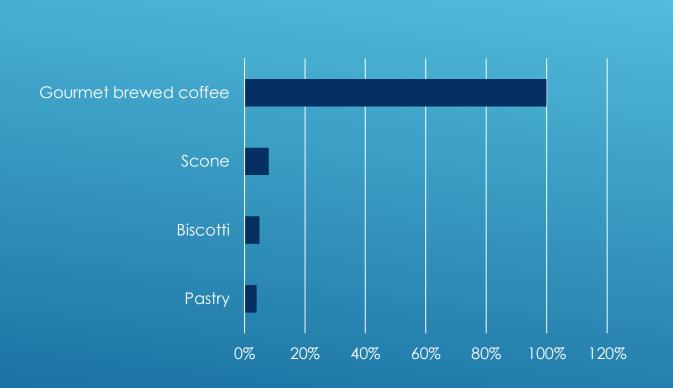




5.9\$

GOURMET COFFEE LOVERS







14%

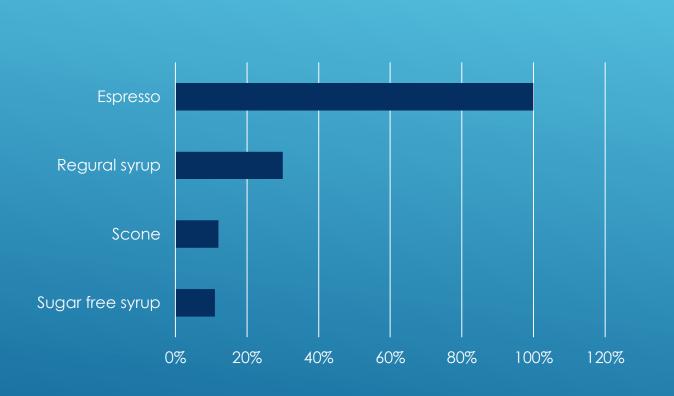


5.3\$



ESPRESSO FANS







15%

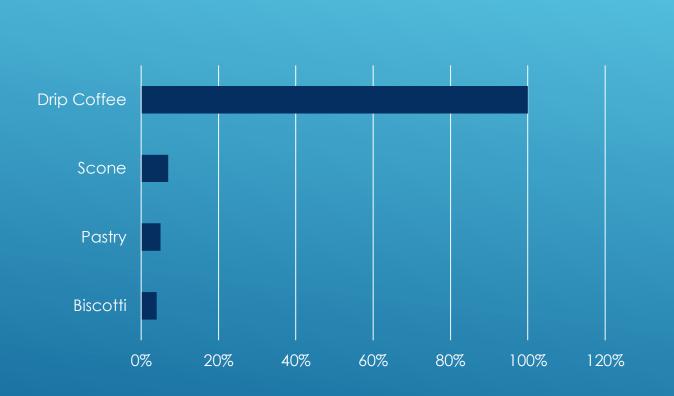


7.7\$



CLASIC COFFEE LOVERS











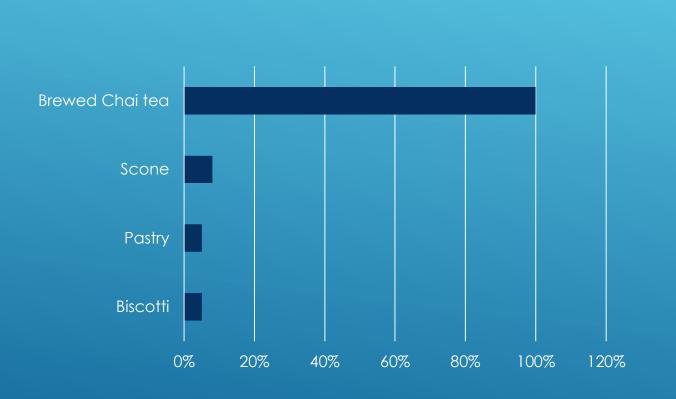






CHAI TEA ENTHUSIASTS







15%



5.6\$



ASSOCIATION RULES

ASSOCIATION RULES







99.6%

Regular Syrup

Espresso









99.3%

Sugar free Syrup

Espresso





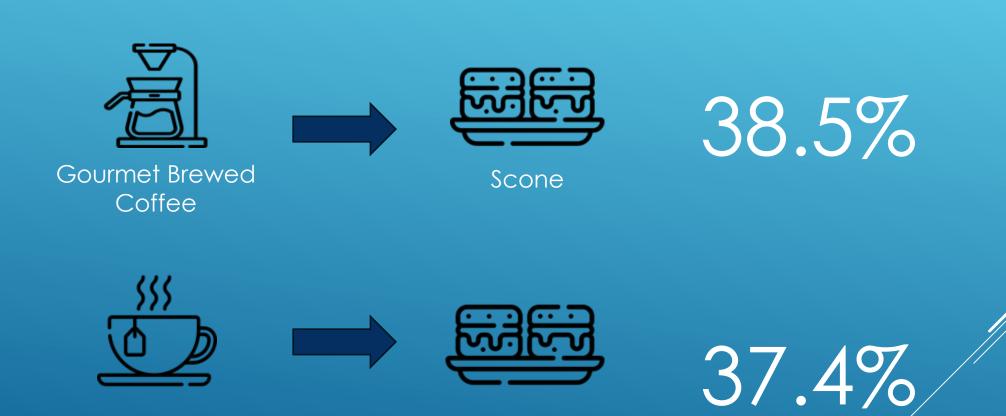


54.7%

Espresso

Regular Syrup

ASSOCIATION RULES



Scone

Brew Chai Tea

Thank you! Any questions?