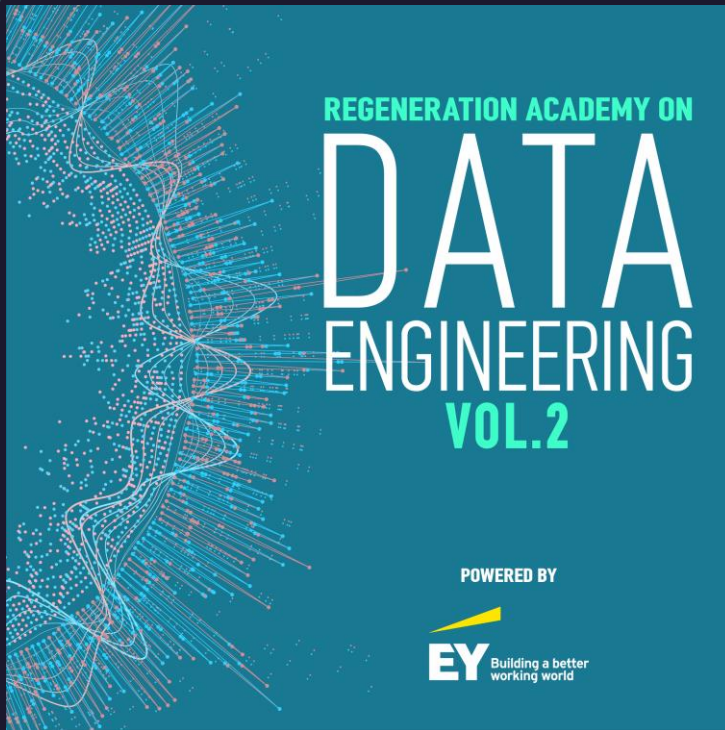


Melodica Music Store Data Warehouse and Analysis Project

A Comprehensive Overview



Project Team 4



Theodoropoulos Konstantinos
Dashboard design specialist

Rotas Konstantinos
Database developer

Soumelidis Dimitris
Azure cloud specialist

Spathis Dimitris
Azure cloud expert

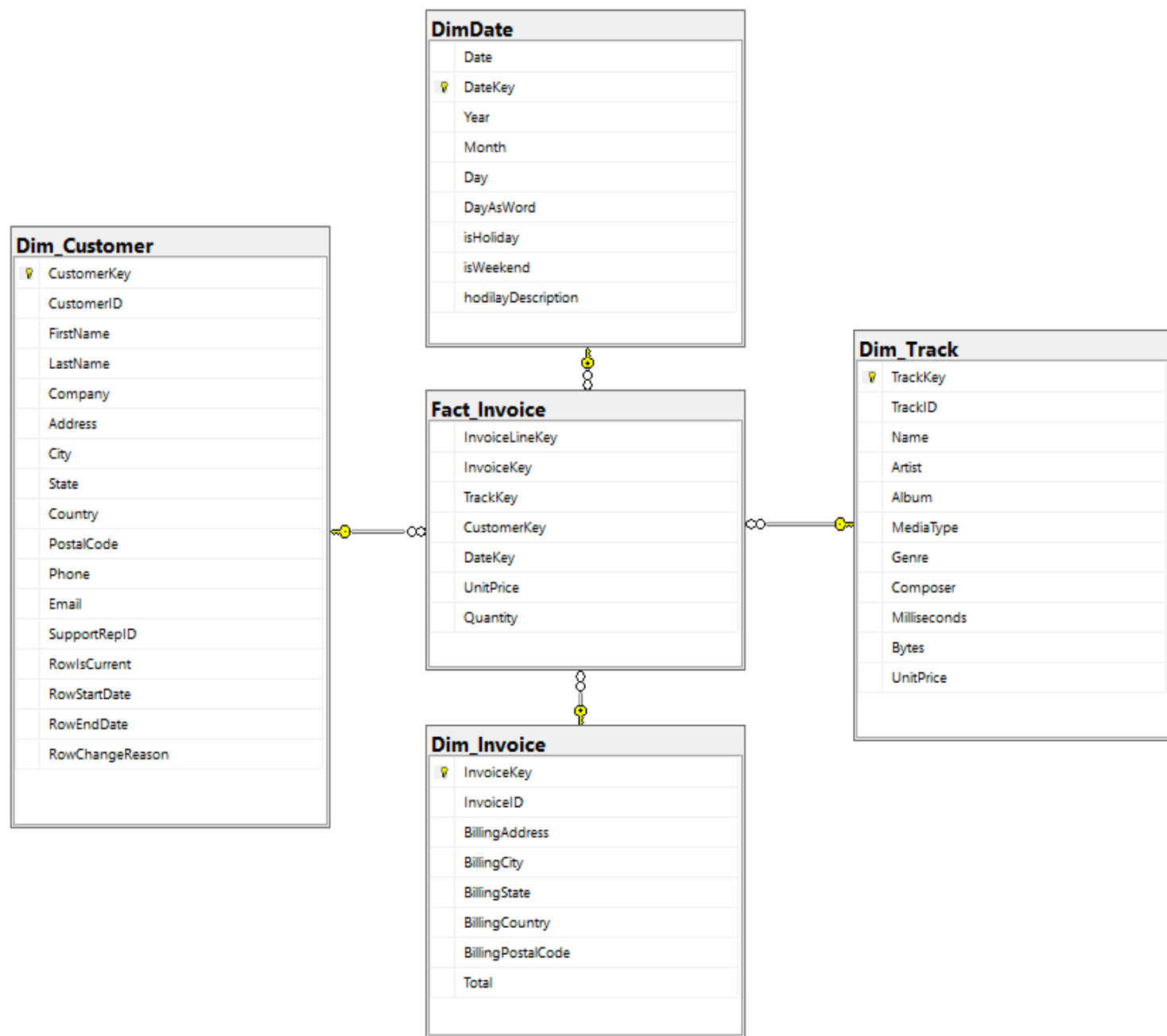
Psychogyiou Athanasia
Power BI specialist

Project Objective

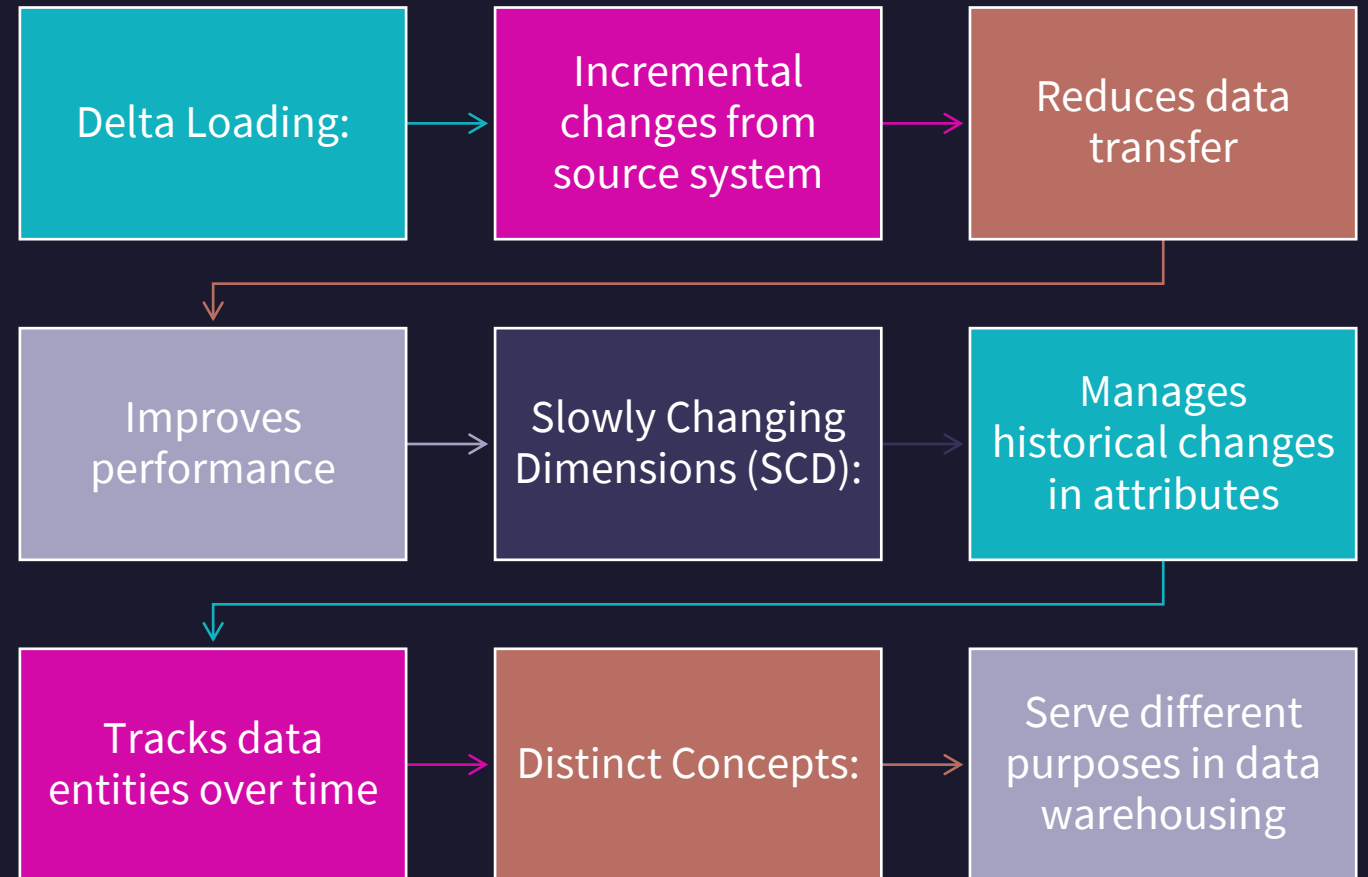
Create a Business Intelligence pipeline to analyze, track sales, and support the company's decision-making process.



Data Warehouse Design

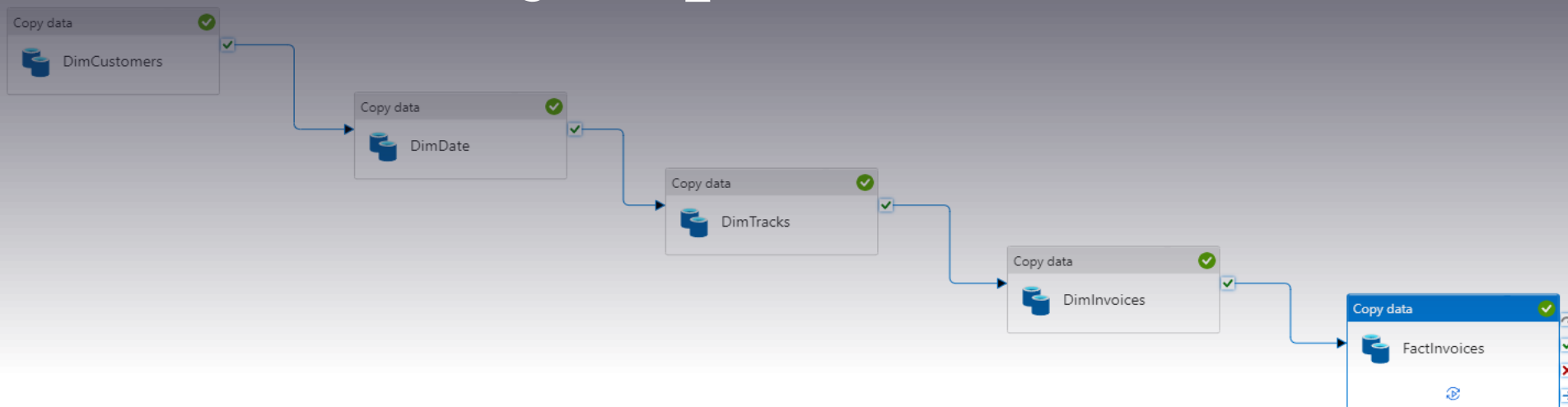


ETL Process



Azure Data Factory Pipeline

All pipeline runs > ✓ pipeline1 - Activity runs



Activity runs

Pipeline run ID a4a334aa-cea5-43fa-ba65-02e899beec88

All status ▾

Export to CSV ▾

Showing 1 - 5 items

Activity name ↑↓	Status ↑↓	Activity type ↑↓	Run start ↑↓	Duration ↑↓	Log	Integration runtime ↑↓	User properties ↑↓	Run ID ↑↓
FactInvoices	✓ Succeeded	Copy data	4/25/2023, 9:49:44 PM	00:00:15	Log	integrationRuntime1		9d7badad-39ac-4093-a055-4
DimInvoices	✓ Succeeded	Copy data	4/25/2023, 9:49:30 PM	00:00:12	Log	integrationRuntime1		cb485186-bdd8-4468-9da1-1
DimTracks	✓ Succeeded	Copy data	4/25/2023, 9:49:11 PM	00:00:17	Log	integrationRuntime1		a84dd290-c955-4216-8347-t
DimDate	✓ Succeeded	Copy data	4/25/2023, 9:48:54 PM	00:00:15	Log	integrationRuntime1		7cf40685-5b36-4fd4-8718-8l
DimCustomers	✓ Succeeded	Copy data	4/25/2023, 9:48:38 PM	00:00:15	Log	integrationRuntime1		7cbd3395-5db3-4872-a175-

Melodica Media – Sales Dashboard

Data Visualization with Power BI

Top Selling Track

Dazed and Confused

Top Selling Album

BBC Sessions [Disc 1] [Live]

Our Track Database

3503

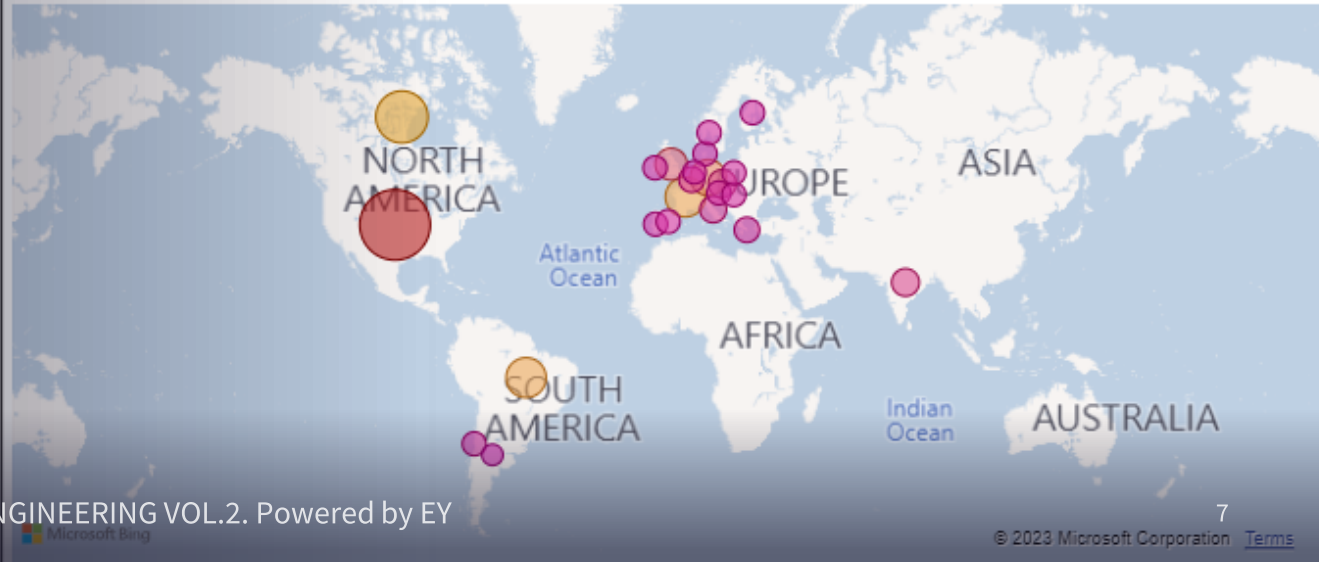
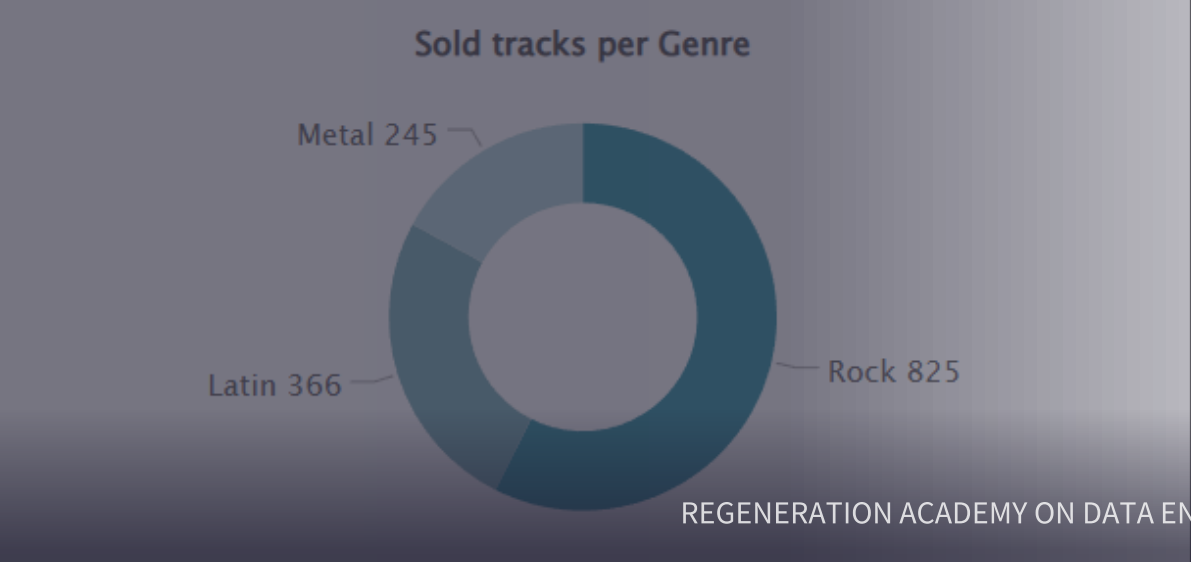
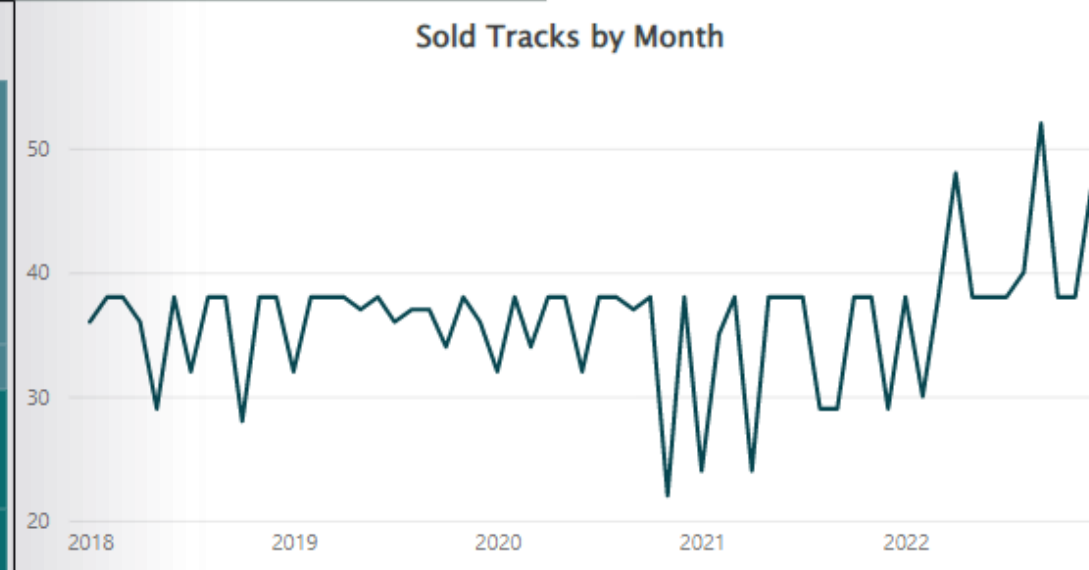
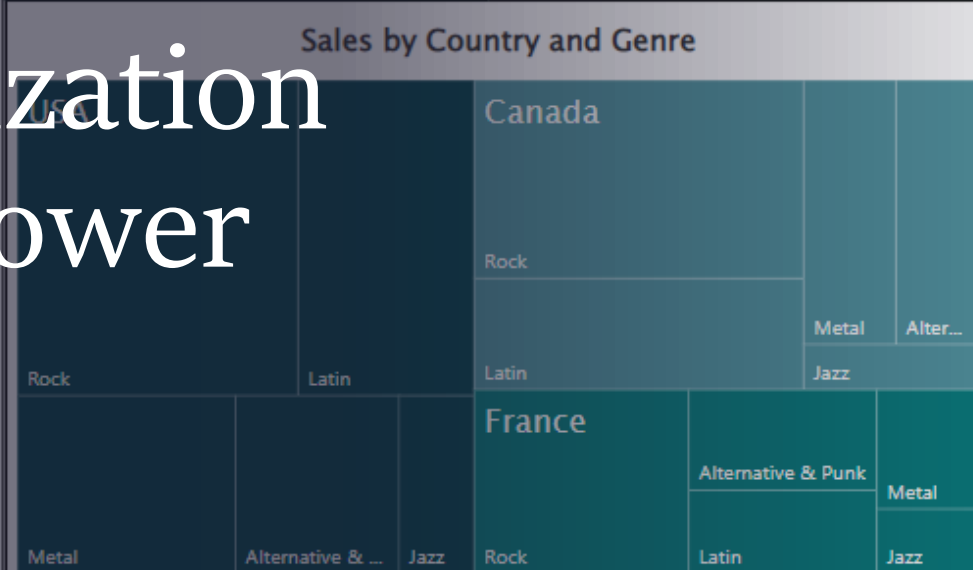
Avg Track Sale per Customer

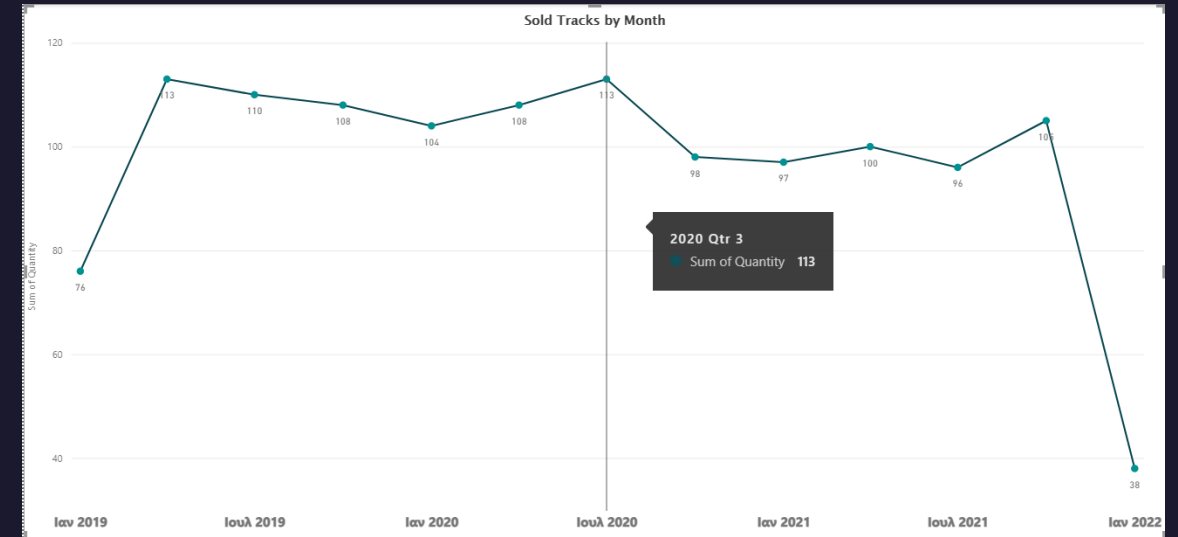
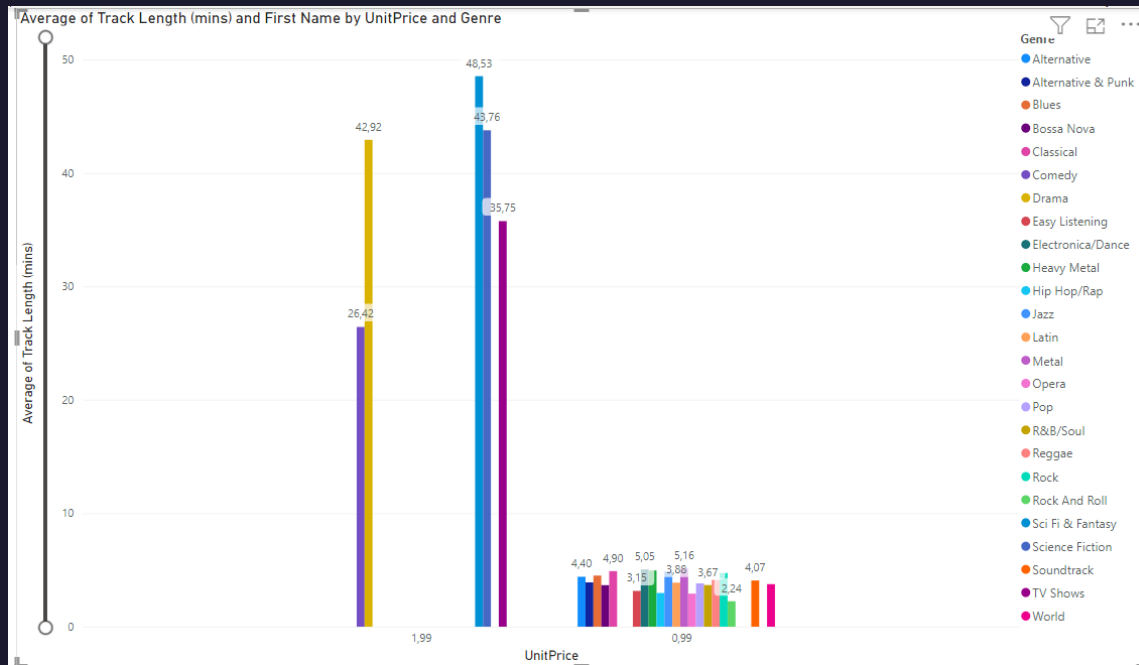
35

1/1/2018

12/31/2021

Top 5 Artists	Revenue
Iron Maiden	\$126.72
U2	\$106.91
Metallica	\$87.12
Led Zeppelin	\$84.15
Lost	\$81.59
Total	\$486.50





Key insights and findings

Future improvements & expansion



Implementation of advanced analytics and machine learning



Expansion to include other aspects of the business, such as customer demographics or marketing

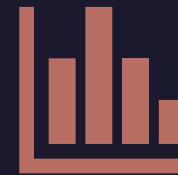
Conclusion



designing a data
warehouse



implementing an ETL
process



visualizing data using
Power BI



Q & A