# **Project Overview**

This project simulates a digital media company (similar to iTunes) and is built upon a structured PostgreSQL database and a custom-designed star schema.

## <u>Agenda</u>

The core agenda behind this project is to deliver insights about the company's performance to support data-driven decisions, in order to help prioritize investment decisions and strategic actions.

# **Provided insights**

To support this agenda, the report provides answers to the following key business questions:

- Which regions generate the highest revenue?
- 'Is revenue increasing or declining over time?
- 'What is the trend in customer demand?
- 'Which genres and products are most popular, and whether current inventory and engagement meet customer demand?

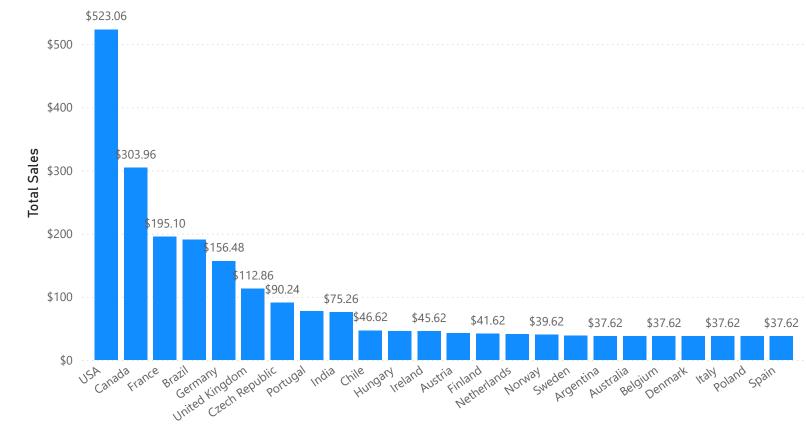
These insights enable smarter decisions around marketing allocation, regional expansion, and identifying growth opportunities or weak points in the business model.

# **Project goals**

- <sup>1</sup> **Enable Decision Making:** Provide stakeholders with clear, interactive visibility into critical business data.
- <sup>2.</sup> **Deliver Actionable Insights:** Present strategic recommendations based on in-depth analysis, helping the company act effectively on the data.

### **Top-Down Geography Analysis**

#### Total Sales by country name



#### Country Name

Total Sales

Year	~
All	$\vee$
country_name	~
All	~

\$2,328.60

1984

Tracks sold

#### Genre performance

year	2021		2022		2023	
genre_name	Revenue	Tracks Sold	Revenue	Tracks Sold	Revenue	1
Alternative	0.000	0	5.940	6	3.960	Γ
Alternative & Punk	62.370	63	39.600	40	45.540	
Blues	10.890	11	10.890	11	19.800	
Bossa Nova	0.990	1	1.980	2	7.920	
Classical	0.000	0	13.860	14	9.900	
Comedy	0.000	0	3.980	2	1.990	
Drama	0.000	0	17.910	9	11.940	
Easy Listening	2.970	3	1.980	2	2.970	
Total	449.460	454	481.450	455	469.580	

### Revenue by Region

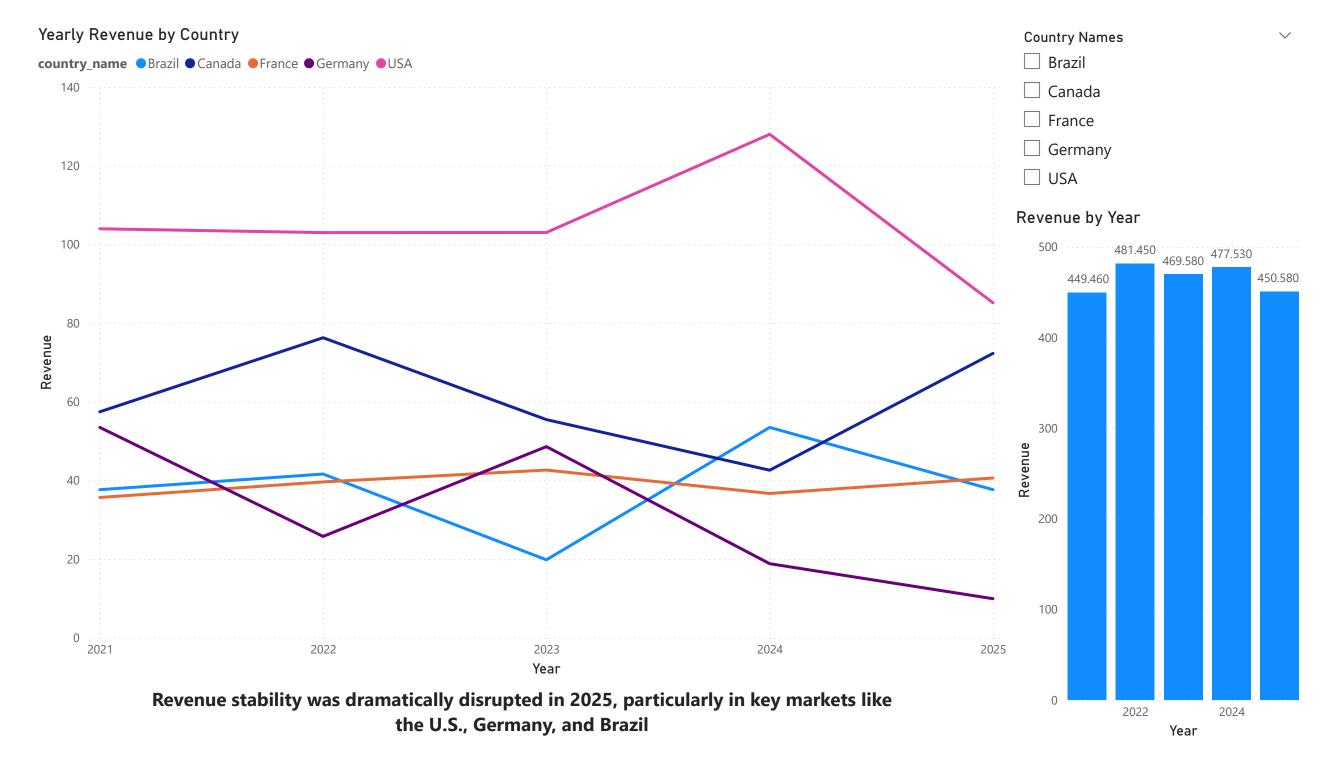
country_name	2021	2022	2023	2024	2025	Total
⊕ Argentina	0.000	11.880	0.990	0.000	24.750	37
⊕ Australia	11.880	0.990	1.980	22.770	0.000	37
⊕ Austria	1.980	27.770	0.000	11.880	0.990	42
⊕ Belgium	6.930	0.000	24.750	0.000	5.940	37
⊕ Brazil	37.620	41.600	19.800	53.460	37.620	190
⊕ Canada	57.420	76.260	55.440	42.570	72.270	303
⊕ Chile	15.840	17.910	5.940	6.930	0.000	46
Total	449.460	481.450	469.580	477.530	450.580	2328

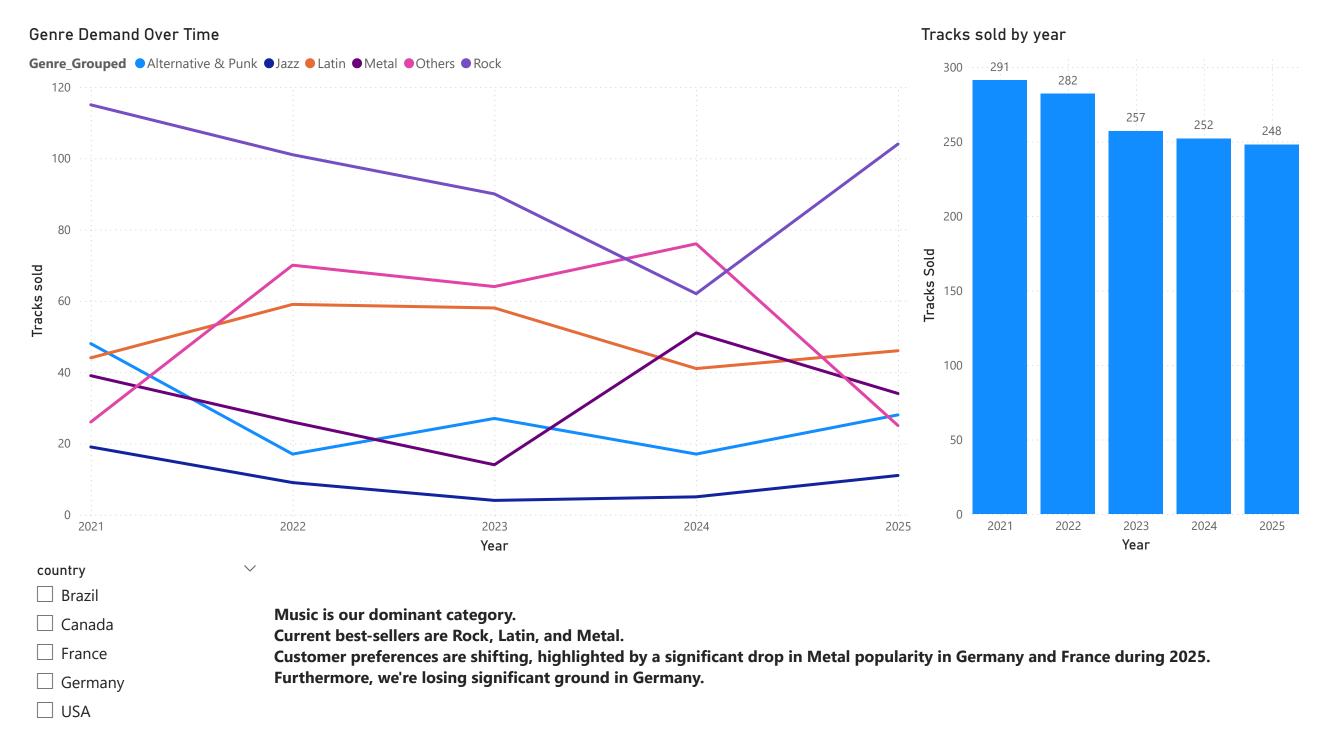
### Revenue Trend Over Time

	Total	2328.600	2240	
+	2025	450.580	442	
+	2024	477.530	447	
+	2023	469.580	442	
+	2022	481.450	455	
+	2021	449.460	454	
year		Revenue	Tracks Sold	

Top 5 Countries by Total Revenue

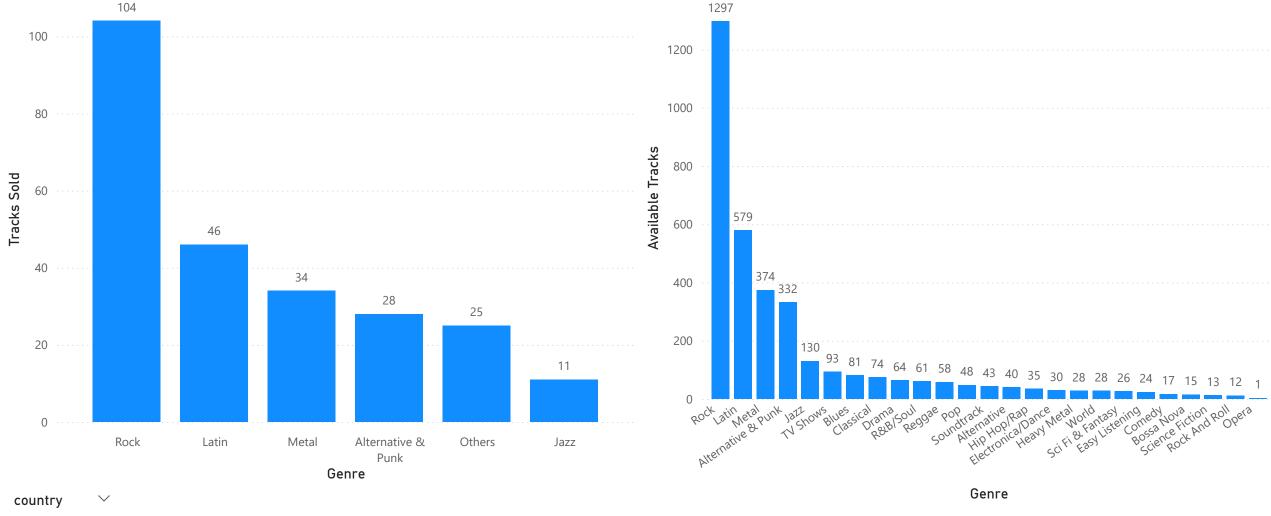








### Avaliable Tracks by Genre



☐ Brazil

Canada

☐ France

☐ Germany

☐ USA

Track variety directly impacts sales.

Countries experiencing declining revenue typically have limited variety in their most preferred genres. This raises critical questions:

- 1) Is the revenue drop due to lack of content, or declining interest?
- 2) Specifically for movies, is there genuinely no demand, or are we just not offering enough variety?

# Why Revenue is Declining and How We'll Fix It

### **Root Cause of Decline**

Lack of content variety is directly reducing customer spending.

Customers haven't lost interest—they're simply not finding enough of what they love.

Critical genres (Rock, Latin, Metal) are underserved, significantly affecting top markets (Germany & USA).

### **Recommendations for next steps:**

#### **Immediate Action**

**Accelerate** content expansion in key genres (Rock, Latin, Metal) to capture unmet demand in core markets. **Rebuild** market presence in Germany through **focused advertising** campaigns, **genre-based promotions**, and **tailored offers** to win back valuable customers.

#### **Short-Term Validation**

Run an **A/B test** between two similar customer groups:

- Group A gets increased variety immediately.
- \*Group B remains unchanged (control group).

Measure the impact on revenue and customer retention.

### **Strategic Long-Term Stability**

### **Operation side**

Introduce quarterly **genre-demand reviews** to proactively adjust content offerings.

Implement a **personalization strategy** to align recommendations precisely with individual user interests, driving higher engagement.

#### **Technical side**

Enhance data tracking by adding a 'Date Added' field to the Track table, enabling **time-based performance analysis**.