

# US Christmas Tree Sales (2010–2016) – Case Study

## Problem Statement

The goal was to analyze real vs. fake Christmas tree sales in the US from 2010–2016 to identify consumer trends, pricing dynamics, and revenue growth opportunities.

## Data & Methodology

- Dataset: US Christmas Tree Sales (2010–2016).
- Tools: SQL, Excel, Power BI.
- Key metrics:
  - **Total Sales Revenue** by year and tree type.
  - **Average Tree Price** trends.
  - **Number of Trees Sold** (volume).
  - **Year-over-Year Change** in sales and revenue.
  - **Market Share** of real vs. fake trees.

## Key Findings

1. **Revenue Trends**
  - Fake trees consistently generated higher revenue despite lower unit sales, driven by higher average prices.
  - Real trees sold in much larger volumes, but lower prices kept their revenue smaller.
2. **Market Share Dynamics**
  - Fake trees grew their revenue share from ~35% in 2010 to nearly 48% in 2016.
  - In 2013, fake trees peaked at **69.83% market share**, while real trees hit their lowest at **30.17%**.
  - This indicates a strong consumer shift toward convenience and durability.
3. **Price vs. Demand**
  - Fake trees maintain demand even at higher prices
4. **Consumer Behavior**
  - Real trees appeal to tradition and seasonal experience.
  - Fake trees appeal to long-term value, reusability, and modern lifestyles (urban households, sustainability concerns).

## Insights

- Market tradition and authenticity (family rituals, holiday experience).
- Offer convenience services (delivery, setup, recycling)
- Highlight eco-friendly sourcing and sustainability.