

# Tasty Bytes Customer Analytics - Cortex Analyst Demo

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This interactive demo showcases a natural language interface for customer data analytics built with **Snowflake Cortex Analyst**.

## What This Demonstrates

Ask questions in plain English and get instant insights from customer loyalty data:

- "How many customers are in our loyalty program?"
- "Which countries have the most customers?"
- "Show me the top 10 customers by total sales"
- "What's the average sales per customer in each country?"

**No SQL knowledge required!** The AI understands your questions and generates the appropriate queries automatically.

## Architecture

This demo is built on:

- **Data Layer:** Snowflake TASTY\_BYTES public dataset
- **Semantic Layer:** Native Snowflake Semantic View (business-friendly data definitions)
- **AI Layer:** Cortex Analyst (LLM-powered query understanding)
- **Interface:** Chat-based natural language interface

## Important Note

This HuggingFace Space is a **demonstration and showcase** only. The actual Cortex Analyst agent runs on Snowflake infrastructure, not within this Space.

To try the real thing:

1. Get a Snowflake account (free trial available)
2. Follow the setup instructions in the [GitHub repository](#)
3. Complete setup in 20-30 minutes

## What You'll Find Here

- **Demo Video:** See Cortex Analyst in action
- **Example Queries:** Sample questions you can ask
- **Sample Results:** Real query outputs
- **Architecture:** How the system works
- **Setup Guide:** Build it yourself step-by-step

## Try It Yourself

**GitHub Repository:** [tasty-bytes-cortex-analyst](#)

The repository includes:

- Complete setup scripts
- Semantic view YAML definition
- Detailed documentation
- 50+ example queries
- Troubleshooting guide

## Dataset

Uses Snowflake's **TASTY\_BYTES** sample dataset:

- 11,420+ customer loyalty members
- Geographic data (30+ countries)
- Sales transactions
- Location visit history

This is publicly available sample data - no real customer information.

## Author

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