

Text2SQL AI Assistant

Quick Start - Sample Questions

Popular queries to get you started:

How many customers do we have?

Top 10 best-selling films?

Monthly rental trends

Which category has highest revenue?

Customers with most rentals

Average rental duration

Ask Your Question

Enter your question about the database: ?

Identify potential film recommendations for customers based on their rental history

Generate Query & Analyze

Clear

☒ Show SQL

☒ Show Analysis

Visualization:

Auto-detect

AI Processing

Results & Insights

Query executed successfully!

Generated SQL Query

```
WITH CustomerRentedFilms AS ( SELECT c.customer_id, f.film_id FROM customer c JOIN rental r ON c.customer_id = r.customer_id JOIN inventory i ON r.inventory_id = i.inventory_id )
```

Query Validation Notes

QUERY_APPROVED

469560

ROWS

3

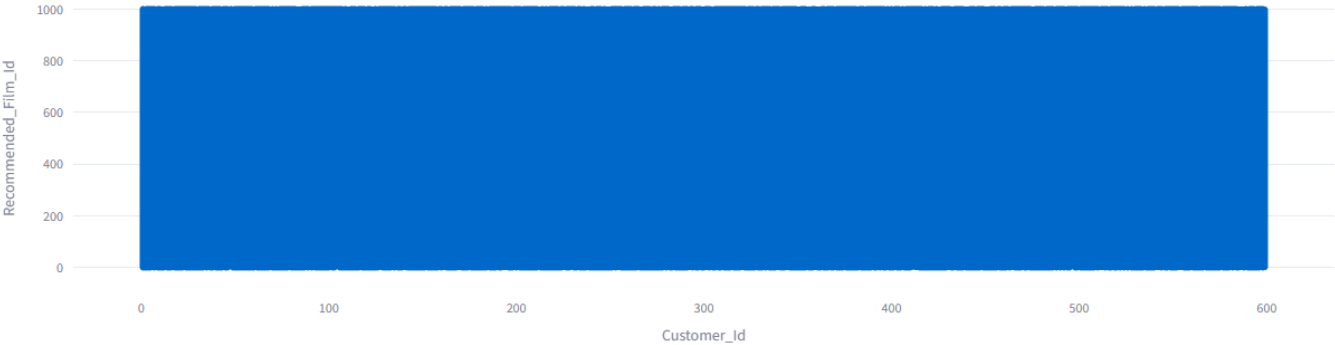
COLUMNS

17.62s

EXEC TIME

Data Visualization

recommended_film_id vs customer_id



Try other visualizations:



recommended_film_id vs customer_id




customer_id by recommended_film_title


AI Insights & Analysis

- 1. Key findings and insights** The dataset provides a comprehensive list of potential film recommendations for each of the 599 customers. With 469,560 rows, this indicates an average of approximately 784 recommendations per customer. This suggests a broad recommendation strategy has been applied, aiming to provide a wide range of potential viewing options based on historical rental data. The primary insight is that a recommendation engine or process has successfully generated a large volume of personalized suggestions, ready for implementation on a customer-facing platform.
- 2. Notable patterns or trends** While detailed patterns regarding specific film genres or customer segments cannot be determined from the provided columns alone, the sheer volume of recommendations per customer is a notable trend. This high volume could indicate that the recommendation algorithm is designed to explore a wide range of films or that the similarity threshold for recommendations is set relatively low. Further analysis would be needed to identify which films are most frequently recommended across the customer base, which could highlight popular or highly correlated titles.
- 3. Business implications** Implementing these recommendations can significantly enhance the customer experience by making it easier for users to discover content they are likely to enjoy. This personalization can lead to increased customer engagement, higher rental/viewing frequency, and potentially reduced churn. The data provides the necessary input to power features like "Recommended for You" sections on a website or app, directly driving consumption and revenue. The scale of recommendations suggests the business is prepared to offer a deep, personalized catalog experience.
- 4. Recommendations for data visualization**
- Distribution of Recommendations per Customer:** A histogram or box plot showing the count of recommendations per `customer_id` would illustrate the variability in the number of suggestions each customer receives.
 - Top N Most Recommended Films:** A bar chart displaying the frequency of `recommended_film_title` would highlight the films most commonly suggested across the customer base.
 - Sample Recommendations for a Few Customers:** A simple table or list view showing the recommendations for a few specific `customer_id`s can provide a tangible example of the output.
- 5. Anomalies or interesting observations** The most striking observation is the high average number of recommendations per customer (~784). This is a substantial number and could potentially overwhelm users if all recommendations were presented at once. It raises questions about how these recommendations are intended to be surfaced (e.g., paginated, categorized, filtered further). It would be interesting to investigate if this high volume is consistent across all customers or if there are outliers with significantly more or fewer recommendations. Understanding the methodology behind generating such a large list per user is key to effective implementation.

View Raw Data

	customer_id	recommended_film_id	recommended_film_title
0	1	1	ACADEMY DINOSAUR
1	1	5	AFRICAN EGG
2	1	6	AGENT TRUMAN
3	1	7	AIRPLANE SIERRA
4	1	10	ALADDIN CALENDAR
5	1	11	ALAMO VIDEOTAPE
6	1	12	ALASKA PHANTOM

 Download CSV

 Download JSON