




# 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

## Ask Your Question

Enter your question about the database: ?

Monthly rental trends

 Generate Query & Analyze

 Clear

☒ Show SQL

☒ Show Analysis


Visualization:  
Auto-detect ▼

## AI Processing

 Query executed successfully!

## Generated SQL Query

```
SELECT DATE_FORMAT(rental_date, '%Y-%m') AS rental_month_year, COUNT(*) AS monthly_rentals FROM rental GROUP BY DATE_FORMAT(rental_date, '%Y-%m')
```

 Query Validation Notes ▼

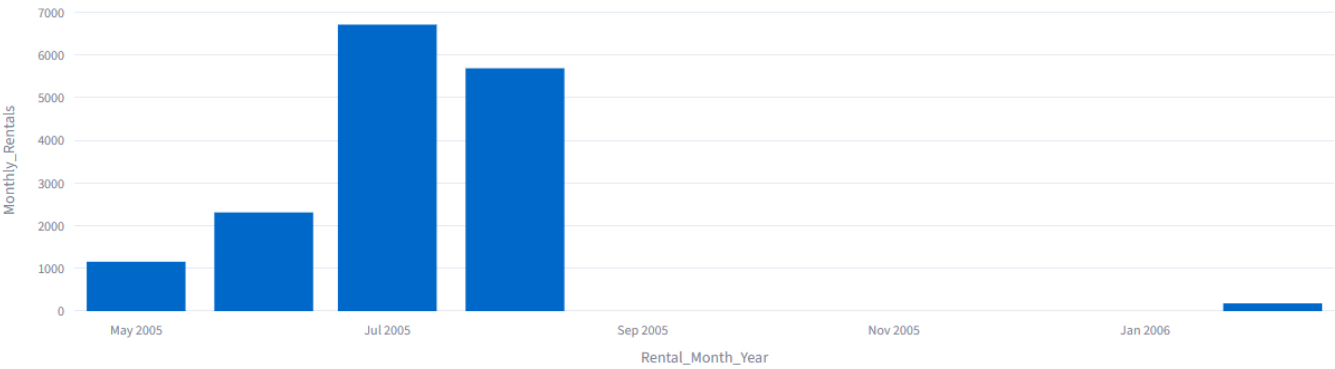
5  
ROWS

2  
COLUMNS

0.01s  
EXEC TIME

## Data Visualization

monthly\_rentals by rental\_month\_year



Try other visualizations:



monthly\_rentals by rental\_month\_year



Distribution of rental\_month\_year

## AI Insights & Analysis

Here is the analysis of the monthly rental trends based on the provided data:

### 1. Key findings and insights:

- The data shows significant fluctuations in monthly rental volume over the observed period.
- There was a rapid increase in rentals from May to July 2005, followed by a decrease in August 2005.
- Rentals in February 2006 are substantially lower than the peak observed in July 2005 and even lower than the initial months of 2005 shown.

### 2. Notable patterns or trends:

- A strong upward trend is visible from May to July 2005, suggesting a potential peak during summer months.
- A subsequent decline in August 2005 and a very low value in February 2006 suggest a potential seasonal pattern with lower activity outside the summer peak.

### 3. Business implications:

- The observed trend suggests that rental demand is highly seasonal, peaking in the summer.
- Businesses can use this information for inventory management, staffing, and marketing efforts, focusing resources during peak seasons and potentially offering promotions during low seasons.
- Understanding the peak and trough periods is crucial for revenue forecasting and operational planning.

### 4. Recommendations for data visualization:


- A **Line Chart** is the most appropriate visualization to show the trend of monthly rentals over time. The x-axis should represent `rental_month_year` and the y-axis `monthly_rentals`.
- This will clearly illustrate the month-to-month changes, peaks, and troughs.


### 5. Any anomalies or interesting observations:

- The jump from 2311 rentals in June 2005 to 6709 in July 2005 is a very sharp increase (nearly 3x), which is notable and might warrant investigation into specific events or factors driving this surge.
- The data is sparse, covering only 5 non-contiguous months across two years. A more complete time series is needed to confirm the seasonal pattern and identify long-term trends accurately.
- The value for February 2006 (182) is significantly lower than any other month shown, highlighting the potential depth of the off-season dip.

View Raw Data

	rental_month_year	monthly_rentals
0	2005-05	1156
1	2005-06	2311
2	2005-07	6709
3	2005-08	5686
4	2006-02	182

 Download CSV

 Download JSON