# Tracking the Guns: A Data-Driven Dive into Global Military Expenditures (1988– 2024)

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Project Repo: military-spending-sql-osint

**Data Source:** SIPRI Military Expenditure Database



### **Abstract**

This analysis explores trends in global military expenditure from 1988 to 2024 using the SIPRI dataset, focusing on seven key nations: the United States, China, Russia, India, Pakistan, Iran, and Israel. Using SQL for data querying and exploration, we identified top spenders, long-term trends, GDP spending proportions, and insights that reflect broader geopolitical realities. This project contributes to open-source intelligence (OSINT) and geopolitical research through structured data analytics.



### Methodology

The dataset includes four key indicators:

- Constant USD (2022): Inflation-adjusted total military spending (in millions)
- **Share of GDP**: Proportion of GDP spent on military
- Per Capita Military Spending
- **Share of Government Expenditure**

Only data from 1988–2024 was used, as some variables were unavailable before 1988. Data was cleaned and stored in a SQL database (db1.sipri data) for structured querying.



## Key Findings



Top Military Spenders (2024)

In constant USD:

1. Us United States: \$29,071,602M

2. cn China: \$4,402,505M 3. RU Russia: \$1,727,580M IN India: \$1,683,165M
 IL Israel: \$647,394M

The **USA's dominance** in global military spending remains unchallenged, with China a distant second.

### **I** Long-Term Spending Trends: Case of Israel

From 1988 (\$15.6B) to 2024 (\$45.3B), Israel's military expenditure **tripled**, reflecting its prolonged regional tensions and focus on defense capabilities. Key spikes occurred in the **2000s and post-2020**, likely due to changing security dynamics in the Middle East.

### **i** Cumulative Spending (1988–2024)

Total military spend (in constant USD):

#### **Country Total Spending (\$M)**

USA 29,071,602 China 4,402,505 Russia 1,727,580 India 1,683,165 Israel 647,394 Pakistan 237,726 Iran 174,227

### 🚺 Share of GDP (Military Burden)

#### **2000 Snapshot:**

Russia: 3.3%
USA: 3.1%
India: 2.9%
Iran: 2.3%
China: 1.8%

### X Average Military Burden (1988–2024):

#### Country Avg. Share of GDP

IL Israel 7.3% (highest)

PK Pakistan 4.3%

#### Country Avg. Share of GDP

4.0% us USA RU Russia 4.0% 2.7% IN India 2.6% IR Iran 1.8% (lowest) cn China

Israel stands out with the highest average military burden, while China has consistently spent the least proportionally to its GDP.

### **\*** Conclusion

This project highlights the utility of SQL-based data analysis in geopolitical research. It reveals clear patterns of dominance, burden distribution, and evolving spending strategies. Notably:

- The USA's unrivaled spending power
- China's growth trajectory
- Israel's persistent high military prioritization

## **Tools Used**

- SQL (MySQL)
- Excel (Pre-cleaning)
- Python (Optional)
- Kaggle / GitHub (Publishing)