

OLYMPICS TREND ANALYSIS

1 20-Year Olympians: Precision Sports' Edge

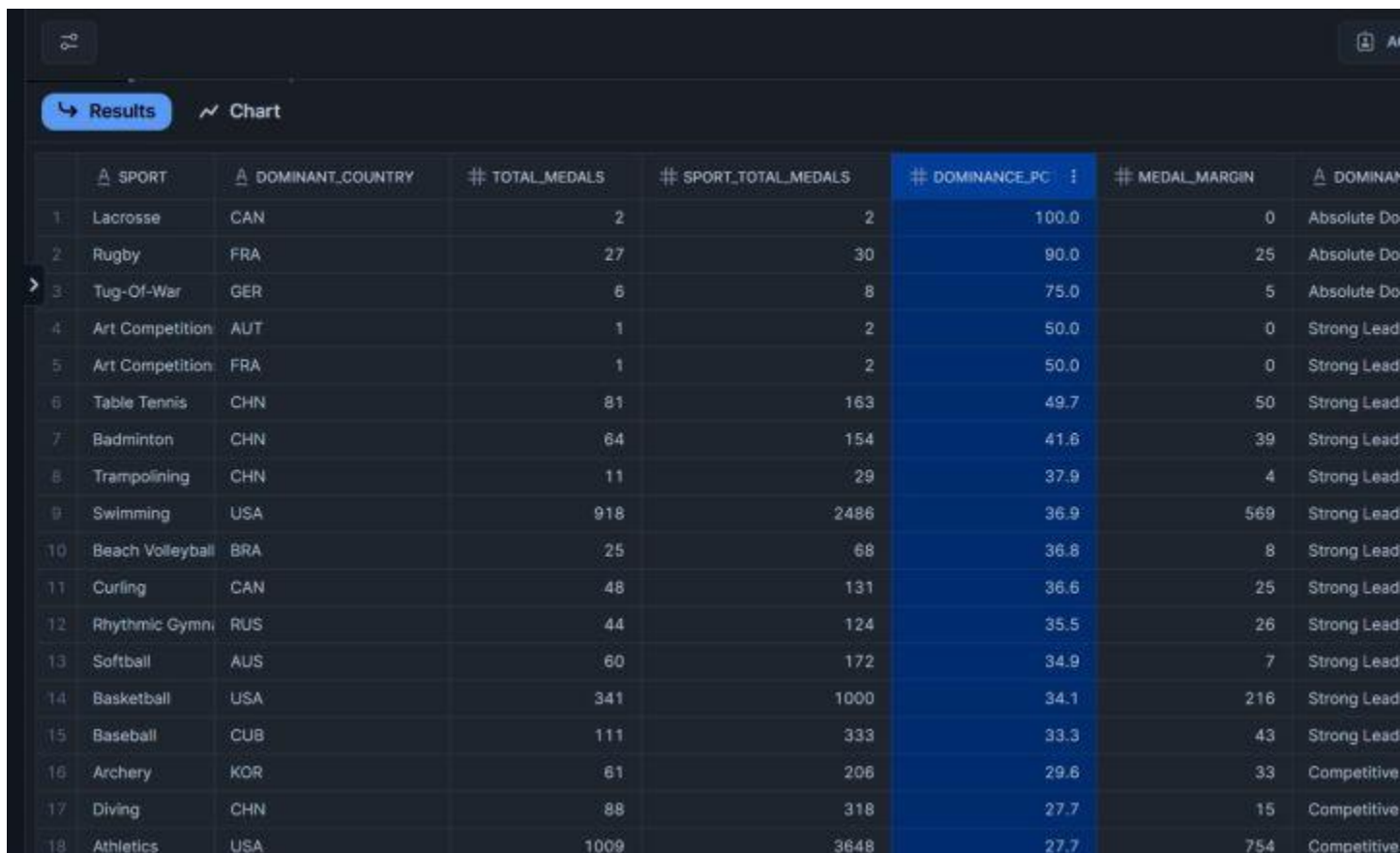
Sports like Shooting and Equestrian have athletes competing for 20+ years (Shooting average: 12 years!).

Career span measures years between an athlete's first/last Olympics.

2 Olympic Dynasties: When One Nation Owns the Sport

In Basketball, the USA owns 50% of all medals. But in Hockey? India leads with 60% an absolute dynasty!

Dominance % = (Country's medals / Sport's total medals).



	SPORT	DOMINANT_COUNTRY	TOTAL_MEDALS	SPORT_TOTAL_MEDALS	DOMINANCE_PC	MEDAL_MARGIN	DOMINANCE
1	Lacrosse	CAN	2	2	100.0	0	Absolute Do
2	Rugby	FRA	27	30	90.0	25	Absolute Do
3	Tug-Of-War	GER	6	8	75.0	5	Absolute Do
4	Art Competition	AUT	1	2	50.0	0	Strong Lead
5	Art Competition	FRA	1	2	50.0	0	Strong Lead
6	Table Tennis	CHN	81	163	49.7	50	Strong Lead
7	Badminton	CHN	64	154	41.6	39	Strong Lead
8	Trampoline	CHN	11	29	37.9	4	Strong Lead
9	Swimming	USA	918	2486	36.9	569	Strong Lead
10	Beach Volleyball	BRA	25	68	36.8	8	Strong Lead
11	Curling	CAN	48	131	36.6	25	Strong Lead
12	Rhythmic Gymn	RUS	44	124	35.5	26	Strong Lead
13	Softball	AUS	60	172	34.9	7	Strong Lead
14	Basketball	USA	341	1000	34.1	216	Strong Lead
15	Baseball	CUB	111	333	33.3	43	Strong Lead
16	Archery	KOR	61	206	29.6	33	Competitive
17	Diving	CHN	88	318	27.7	15	Competitive
18	Athletics	USA	1009	3648	27.7	754	Competitive

3 Age Wins Medals Differently

Athletes in precision sports (Shooting, Archery) peak 10+ years later than gymnasts.
Experience > youth when accuracy matters!

Gymnastics: 19-year-olds dominate (Young quartile)

Equestrian: 40+ is prime (Veteran quartile)

Quartiles = age brackets splitting athletes into 4 groups

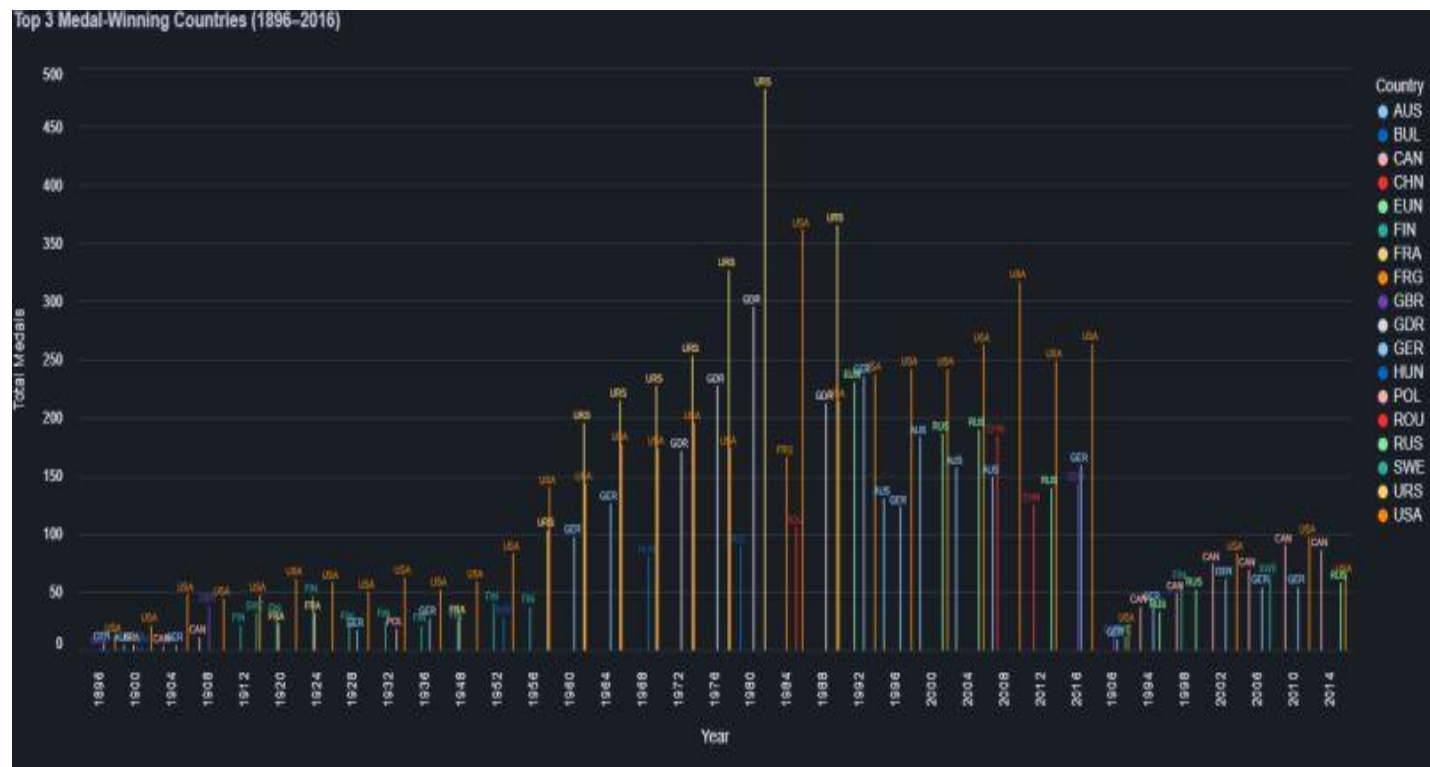
Global Power Shifts

Using DENSE_RANK (a tie-friendly ranking system), I tracked medal leaders yearly:

2000: USA > RUSSIA > CHINA

2020: USA > CHINA > JAPAN

The United States leads in roughly two-thirds of all the Games, especially in the initial period (1896–1936) and again post-Cold War (1992–2016). Between 1952–1988, the Soviet Union made a solid challenge, standing at the top in six successive Olympiads.



Tools Used:

Snowflake SQL (raw data → insights)

Streamlit (interactive dashboards)

Plotly (visual storytelling)