

Project Report: Game Analytics – Unlocking Tennis Data

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Project Phase: Final Insights & Reporting

1. Executive Summary

This report consolidates the findings from our end-to-end data pipeline project using the SportRadar Tennis API. By ingesting data for **6,400+ competitions**, **3,800+ venues**, and **1,000+ top-ranked doubles players**, we have created a robust SQL database that provides a 360-degree view of the professional tennis landscape.

Our analysis reveals that while the **USA and Western Europe** dominate in terms of infrastructure (venues) and elite player output, the **ITF (International Tennis Federation)** circuits provide the critical volume of tournaments that sustain the global ecosystem.

2. Key Strategic Insights

Based on the analysis of 20 SQL queries across our dataset, we have identified five critical insights:

Insight 1: The "Engine Room" of Tennis is the ITF

- **Finding:** While ATP and WTA get the TV time, the **ITF Men's and Women's circuits** account for **65% of all competitions** in our database (4,230 out of ~6,400).
- **Implication:** For any predictive model or talent scouting system, data collection cannot be limited to top-tier events. The ITF level is where the vast majority of match data is generated.

Insight 2: Infrastructure Hegemony

- **Finding:** The **USA (600 venues)**, **Italy (279)**, and **France (268)** control nearly **30% of the world's recorded tennis infrastructure**.
- **Contrast:** Major tennis nations like **China (235)** and **Spain (209)** follow, but the gap between the USA and the rest of the world is significant (more than 2x the runner-up).

Insight 3: The "Great Britain" Doubles Anomaly

- **Finding:** In the current rankings snapshot, **3 of the Top 4 Doubles Players** are from Great Britain (Lloyd Glasspool, Julian Cash, Henry Patten).
- **Implication:** This suggests a highly specialized and successful doubles training program in the UK, potentially serving as a case study for other federations.

Insight 4: Efficiency vs. Volume

- **Finding:** **Taylor Townsend (USA)** is the most "efficient" player, averaging **606 points per competition**. Compare this to players who play 30+ tournaments but struggle to break the Top 50.

- **Takeaway:** A "Quality over Quantity" schedule strategy appears most effective for maintaining a Top 10 ranking.

Insight 5: Gender Parity in Volume

- **Finding:** The dataset shows a relatively balanced ecosystem with **3,677 Men's events** vs. **2,732 Women's events**. While men's events are more numerous (~57%), the women's circuit is robust compared to other global sports which often have wider gaps.
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3. Detailed Data Breakdown (The "20 Queries" Summary)

A. Competition Analysis

1. **Top Category:** ITF Men (2,198 tournaments) is the largest single category.
2. **Gender Split: 57% Men / 43% Women.** Mixed doubles events are rare (only 13 recorded).
3. **Elite Level:** Grand Slam and ATP/WTA 1000 events make up less than **5%** of the total volume, highlighting their exclusivity.

B. Geographic & Venue Analysis

4. **Top City: London (49 venues)** is the global capital of tennis infrastructure in our dataset, followed by Buenos Aires and Rome.
5. **Average Complex Size:** The typical tennis complex has **6 to 7 documented courts**.
6. **Largest Complex:** We identified facilities with up to **30 distinct venues** (courts) listed, serving as major hubs for tournaments.

C. Player Performance (Doubles)

7. **#1 Ranked Player:** Lloyd Glasspool (GBR) with 8,610 points.
 8. **Top Country by Points:** USA leads significantly with **84,950 total ranking points**, followed by Great Britain (61,651).
 9. **Most Active:** Several lower-ranked players have competed in **35+ tournaments** in a 52-week period, indicating a "grind" to accumulate points.
 10. **Neutral Athletes:** A significant portion of points (42,351) is held by athletes competing under a "**Neutral**" flag (primarily Russian/Belarusian athletes), effectively making them the 3rd strongest "nation" in tennis.
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