

ATP PLAYERS ANALYSIS

Analyzing relevant ATP
players data from 2010 to
2019

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QUESTIONS &
HYPOTHESIS



APPROACH AND
ANALYSIS



Q1: PLAYERS
RANKED 1ST



Q2: DAYS RANKED 1ST



Q3: MATCHES AND
TOURNAMENTS
WON



DEEPER ANALYSIS:
BEST PLAYER PER
SURFACE



DEEPER ANALYSIS:
PLAYERS WITH BEST
SERVES



PROJECT RESULTS

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Questions & Hypothesis

- **1. Which players were ranked 1st in the observed period?**

Hypothesis: N. Djokovic, R. Federer, R. Nadal & A. Murray were the only players ranked 1st in the observed period

- **2. Who was ranked 1st the longest?**

Hypothesis: N. Djokovic was ranked 1st the longest

- **3. Who has won the most matches and most tournaments?**

Hypothesis: N. Djokovic won the most matches and tournaments

- **4. Who was the best player per surface?**

Hypothesis: R. Nadal was the best player on Clay while N. Djokovic was on other surfaces

- **5. Who were the players with the best serving?**

Hypothesis: Ivo Karlovic was among the players with best serves

Approach and Analysis

1. Data that is analyzed is downloaded from https://github.com/JeffSackmann/tennis_atp published by <https://github.com/JeffSackmann>
2. This project consists of 2 parts:
 - Analyzing ATP Rankings data in SQL (Rankings analysis Tennis ATP.sql)
 - Analyzing ATP Matches in SQL – (Matches analysis Tennis ATP.sql)
3. Tools used: Python - for combining 10 CSV files into 1 consolidated dataset.
MS SQL Server – for data exploration
4. Data was already clean so there was no data cleaning necessary

Q1: Players ranked 1st

Player_Name
Andy Murray
Novak Djokovic
Rafael Nadal
Roger Federer

- Players ranked 1st during the observed period:

Andy Murray

Novak Djokovic

Rafael Nadal

Roger Federer

Q2: Days ranked 1st

Player_Name	Days_ranked_1st
Novak Djokovic	1925
Rafael Nadal	1106
Roger Federer	329
Andy Murray	287

- Novak Djokovic was top ranked for the 1925 days (more than 5 years)
- 819 days more than the 2nd best, Rafael Nadal
- Rafael Nadal close to 800 days more at the top rank in comparison to Roger Federer (329)

Q3: Matches and tournaments won

	Player_Id	Player_Name	Matches_Played	Matches_Won	Matches_Lost	Finals_Played	Finals_Won
1	104925	Novak Djokovic	743	642	101	84	61
2	104745	Rafael Nadal	693	582	111	74	48
3	103819	Roger Federer	680	568	112	72	42
4	104918	Andy Murray	584	461	123	48	32
5	103970	David Ferrer	636	446	190	38	20
6	104607	Tomas Berdych	628	425	203	24	8
7	105227	Marin Cilic	603	400	203	27	15
8	105453	Kei Nishikori	553	381	172	25	11
9	104545	John Isner	600	378	222	27	15
10	104527	Stan Wawrinka	562	377	185	24	15

- Novak Djokovic Won the most matches (642)
- Novak Djokovic Won the most tournaments (61)
- Very close battle for second between Nadal & Federer
 - 582 vs 568 matches won
 - 74 vs 72 finals played
 - 48 vs 42 finals won

Deeper analysis: Best player per surface

Player_Name	Surface	Matches_Played	Matches_Won	Win_Percentage
Novak Djokovic	Hard	487	424	87.06
Rafael Nadal	Clay	281	257	91.46
Novak Djokovic	Grass	79	70	88.61

- Rafael Nadal was the best player on Clay (with the highest overall win percentage of 91.46%)
- Novak Djokovic was the best player on Hard court and Grass

Deeper analysis: Players with the best serves

	Player_Id	Player_Name	Matches_Played	Total_Aces	AVG_Aces	Height	Height_ranges
1	103333	Ivo Karlovic	395	7885	19.96	208	200+
2	104545	John Isner	600	10821	18.04	206	200+
3	105683	Milos Raonic	517	7416	14.34	196	190-199
4	106401	Nick Kyrgios	251	3556	14.17	193	190-199
5	104180	Gilles Muller	294	4073	13.85	193	190-199
6	105023	Sam Querrey	493	6290	12.76	198	190-199
7	104731	Kevin Anderson	526	6662	12.67	203	200+
8	104053	Andy Roddick	155	1740	11.23	188	180-189
9	103852	Feliciano Lopez	517	5675	10.98	188	180-189
10	105657	Marius Copil	148	1500	10.14	193	190-199

- Ivo Karlovic & John Isner were the players with the best serves, both averaging close to 20 aces per match
- Both were the best by a mile, the rest is below 15
- Both player are also 200 cm+ tall
- Shortest players in the top 10 list are 188 cm tall

Project results

- 1. Which players were ranked 1st in the observed period?

N. Djokovic, R. Federer, R. Nadal & A. Murray were the only players ranked 1st in the observed period

- 2. Who was ranked 1st the longest?

N. Djokovic was ranked 1st the longest, being top ranked for 819 days more than the 2nd best, R. Nadal

- 3. Who has won the most matches and most tournaments?

N. Djokovic Won the most matches (642) and the most (61),

however, there was a close battle for the 2nd place

between R. Nadal & R. Federer, 582 vs 568 matches won & winning 48 vs 42 finals

- 4. Who was the best player per surface?

R. Nadal was the best player on **Clay** (with the highest overall win percentage of 91.46%)

N. Djokovic was the best player on **Hard court and Grass** (winning 87.06 and 88.61% of matches)

- 5. Who were the players with the best serving?

Ivo Karlovic & John Isner were the players with the best serves by a mile, both averaging close to 20 aces per match,

with the best of the rest being below 15 aces per match