



DATA MANAGEMENT FOR DATA SCIENCE HW1 & HW2

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Table Name	#Rows	#Columns	Explanation
atp_matches_2018	2604	43	Single(1vs1) matches of multiple tournaments on 2018.
atp_matches_2019	2635	43	Single(1vs1) matches of multiple tournaments on 2019.
atp_matches_doubles_2018	1183	57	Double(2vs2) matches of multiple tournaments on 2018.
atp_matches_doubles_2019	1087	57	Double(2vs2) matches of multiple tournaments on 2019
atp_matches_futures_2018	16291	20	Futures matches of 2018 that allow for players to win career titles and improve their rankings.
atp_matches_futures_2019	15487	20	Futures matches of 2019 that allow for players to win career titles and improve their rankings.
atp_matches_qual_chall_2018	8428	43	ATP Challenger tour matches of 2018.
atp_matches_qual_chall_2019	7689	43	ATP Challenger tour matches of 2019.
atp_players	43542	6	ID, nationality, hand, first name, last name and birthdays of players of all of these matches
atp_rankings_current	17080	4	Rankings of the players on different ranking dates.

ATP: Association of Tennis Professionals

Mostly used attributes:

atp_players table:

- player_id, country_code, hand, birth_date, first_name, last_name:

On different tables that shows matches:

- winner_id, loser_id, tourney_name, winner_age, loser_age, winner_ioc(country), loser_ioc(country), minutes

**for doubles matches there are two winner and loser attributes

atp_rankings_current:

- ranking_date, ranking, ranking_points

Query Number	Old Exec. Time	Optimized Exec Time
Query 1	0.110sec	0.047sec
Query 4	0.094sec	0.031sec
Query 3	1.281sec	0.015sec
Query 7	0.047sec	0.015sec
Query 10	0.109	0.078sec