

# Game Analytics: Unlocking Tennis Data with SportRadar API

## 1. Competitions Analysis:

- List all competitions with category names.

```
SELECT c.competition_id, c.competition_name, cat.category_name
FROM competitions c
JOIN categories cat ON c.category_id = cat.category_id;
```

competition_id	competition_name	category_name
sr:competition:12229	ITL	ITL
sr:competition:14814	Juniors AO, Melbourne, Australia Men Sing...	Juniors
sr:competition:14816	Juniors AO, Melbourne, Australia Men Dou...	Juniors
sr:competition:14818	Juniors AO, Melbourne, Australia Women ...	Juniors
sr:competition:14820	Juniors AO, Melbourne, Australia Women ...	Juniors
sr:competition:15399	Juniors French Open, Paris, France Men Si...	Juniors
sr:competition:15401	Juniors French Open, Paris, France Men D...	Juniors
sr:competition:15403	Juniors French Open, Paris, France Wome...	Juniors
sr:competition:15405	Juniors French Open, Paris, France Wome...	Juniors

- Count the number of competitions in each category.

```
SELECT cat.category_name, COUNT(c.competition_id) AS total_competitions
FROM competitions c
JOIN categories cat ON c.category_id = cat.category_id
GROUP BY cat.category_name
ORDER BY total_competitions DESC;
```

category_name	total_competitions
ITF Men	2198
ITF Women	2032
Challenger	945
WTA	255
ATP	225
WTA 125K	206
UTR Men	203
UTR Women	172
Exhibition	32
Juniors	16
Wheelchairs	16
Legends	11
Wheelchairs Ju...	8
ITL	1
Hopman Cup	1
United Cup	1
Billie Jean King ...	1
Davis Cup	1

- Find competitions of type 'doubles'.

```
SELECT competition_id, competition_name, type
FROM competitions
```

WHERE type = 'doubles';

competition_id	competition_name	type
sr:competition:10027	ITF Men Stara Zagora, Bulgaria Men Doubles	doubles
sr:competition:10033	ITF Men Sibiu, Romania Men Doubles	doubles
sr:competition:10039	ITF Men Busto Arsizio, Italy Men Doubles	doubles
sr:competition:10045	ITF Men Sabac, Serbia Men Doubles	doubles
sr:competition:10057	ITF Men Seefeld, Austria Men Doubles	doubles
sr:competition:10075	ATP Challenger Portoroz, Slovenia Men D...	doubles

- Get competitions in a specific category (e.g., ITF Men).

```
SELECT c.competition_id, c.competition_name, c.type, cat.category_name
FROM competitions c
JOIN categories cat ON c.category_id = cat.category_id
WHERE cat.category_name = 'ITF Men';
```

competition_id	competition_name	type	category_name
sr:competition:10025	ITF Men Stara Zagora, Bulgaria Men Singles	singles	ITF Men
sr:competition:10027	ITF Men Stara Zagora, Bulgaria Men Doubles	doubles	ITF Men
sr:competition:10031	ITF Men Sibiu, Romania Men Singles	singles	ITF Men
sr:competition:10033	ITF Men Sibiu, Romania Men Doubles	doubles	ITF Men
sr:competition:10037	ITF Men Busto Arsizio, Italy Men Singles	singles	ITF Men
sr:competition:10039	ITF Men Busto Arsizio, Italy Men Doubles	doubles	ITF Men
sr:competition:10043	ITF Men Sabac, Serbia Men Singles	singles	ITF Men
sr:competition:10045	ITF Men Sabac, Serbia Men Doubles	doubles	ITF Men

- Identify parent competitions and their sub-competitions.

```
SELECT p.competition_name AS parent_competition, c.competition_name AS sub_competition
FROM competitions c
JOIN competitions p ON c.category_id = p.category_id
WHERE c.competition_id <> p.competition_id;
```

parent_competition	sub_competition
ITF Men Stara Zagora, Bulgaria Men Doubles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Sibiu, Romania Men Singles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Sibiu, Romania Men Doubles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Busto Arsizio, Italy Men Singles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Busto Arsizio, Italy Men Doubles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Sabac, Serbia Men Singles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Sabac, Serbia Men Doubles	ITF Men Stara Zagora, Bulgaria Men Singles
ITF Men Seefeld, Austria Men Singles	ITF Men Stara Zagora, Bulgaria Men Singles

- Analyze the distribution of competition types by category.

```

SELECT cat.category_name, c.type, COUNT(c.competition_id) AS total
FROM competitions c
JOIN categories cat ON c.category_id = cat.category_id
GROUP BY cat.category_name, c.type
ORDER BY cat.category_name;

```

category_name	type	total
ATP	doubles	108
ATP	mixed	2
ATP	mixed_doubles	6
ATP	singles	109
Billie Jean King Cup	mixed	1
Challenger	doubles	472
Challenger	singles	473
Davis Cup	mixed	1

- List all top-level competitions (no parent).

```

SELECT competition_id, competition_name, type
FROM competitions
WHERE category_id IS NOT NULL;

```

competition_id	competition_name	type
sr:competition:12229	IPTL	singles
sr:competition:14814	Juniors AO, Melbourne, Australia Men Sing...	singles
sr:competition:14816	Juniors AO, Melbourne, Australia Men Dou...	doubles
sr:competition:14818	Juniors AO, Melbourne, Australia Women ...	singles
sr:competition:14820	Juniors AO, Melbourne, Australia Women ...	doubles
sr:competition:15399	Juniors French Open, Paris, France Men Si...	singles
sr:competition:15401	Juniors French Open, Paris, France Men D...	doubles

## 2. Venue Analysis

- List all venues along with their associated complex names.

```

SELECT v.venue_id, v.venue_name, c.complex_name
FROM venues v
JOIN complexes c ON v.complex_id = c.complex_id;

```

venue_id	venue_name	complex_name
sr:venue:1008	Estadio Monumental	Club Tennis Las Terrazas de Miraflores
sr:venue:10390	Stadium	Shenzhen International Tennis Center
sr:venue:10394	Court 2	Shenzhen Longgang Sports Center
sr:venue:10472	Court 7	Olympic Park Tennis Center
sr:venue:10536	Court 20	Melbourne Park
sr:venue:10538	Court 22	Melbourne Park
sr:venue:10582	Estadio Ivan Elias Moreno	Club Tennis Las Terrazas de Miraflores
sr:venue:10644	Stade Numa-Daly Magenta	Complexe Tennistique Marie-Louise Lhuillier
sr:venue:11168	Noevir Stadium	Miki Disaster Management Park
sr:venue:1119	Shanghai Stadium	Qi Zhong Tennis Center

- Count the number of venues in each complex.

```
SELECT c.complex_name, COUNT(v.venue_id) AS total_venues
FROM venues v
JOIN complexes c ON v.complex_id = c.complex_id
GROUP BY c.complex_name
ORDER BY total_venues DESC;
```

Result Grid		Filter Rows:	Export:	Wrap C
	complex_name	total_venues		
▶	National Tennis Center	62		
	Buenos Aires Lawn Tennis Club	30		
	Melbourne Park	25		
	Hurd Tennis Center	24		
	Club Tennis Las Terrazas de Miraflores	22		
	Qi Zhong Tennis Center	22		
	Indian Wells Tennis Garden	21		

- Get details of venues in a specific country.

```
SELECT venue_id, venue_name, city_name, country_name
FROM venues
WHERE country_name = 'France';
```

Result Grid		Filter Rows:	Edit:	Export/Import:
	venue_id	venue_name	city_name	country_name
▶	sr:venue:12245	Halle des Sports	Quimper	FRANCE
	sr:venue:13366	Court 2	Montpellier	FRANCE
	sr:venue:1339	Court Central	Metz	FRANCE
	sr:venue:1340	Court 1	Metz	FRANCE
	sr:venue:14040	Court Ideal Groupe	Metz	FRANCE
	sr:venue:14042	Court 11	Bordeaux	FRANCE
	sr:venue:14062	Court 12	Bordeaux	FRANCE

- Identify all venues with their timezones.

```
SELECT venue_id, venue_name, timezone
FROM venues
WHERE timezone IS NOT NULL;
```

Result Grid		Filter Rows:	Edit:	Export/Imp
	venue_id	venue_name	timezone	
▶	sr:venue:1008	Estadio Monumental	America/Lima	
	sr:venue:10390	Stadium	Asia/Shanghai	
	sr:venue:10394	Court 2	Asia/Shanghai	
	sr:venue:10472	Court 7	Australia/Sydney	
	sr:venue:10536	Court 20	Australia/Melbourne	
	sr:venue:10538	Court 22	Australia/Melbourne	
	sr:venue:10582	Estadio Ivan Elias Moreno	America/Lima	
	sr:venue:10644	Stade Numa-Daly Magenta	Pacific/Noumea	
	sr:venue:11168	Noevir Stadium	Asia/Tokyo	

- Find complexes with more than one venue.

```
SELECT c.complex_name, COUNT(v.venue_id) AS venue_count
FROM complexes c
JOIN venues v ON v.complex_id = c.complex_id
GROUP BY c.complex_name
HAVING COUNT(v.venue_id) > 1;
```

Result Grid		
Filter Rows:		
Export:		
Wrap Cell Content:		
	complex_name	venue_count
▶	Kindarena	4
	Estadio la Cartuja	2
	Estadio German Becker	4
	Palais des sports de Gerland	7
	Sibur Arena	4
	Palais Des Sport	7
	Palasport	4
	Salle Steredenn	6

- List venues grouped by country.

```
SELECT country_name, COUNT(venue_id) AS venue_count
FROM venues
GROUP BY country_name
ORDER BY venue_count DESC;
```

Result Grid		
Filter Rows:		
Export:		
	country_name	venue_count
▶	UNITED STATES	579
	ITALY	278
	FRANCE	260
	CHINA	234
	SPAIN	209
	GERMANY	161
	MEXICO	128
	AUSTRALIA	118

- Find all venues for a specific complex.

```
SELECT v.venue_id, v.venue_name, v.city_name, v.country_name
FROM venues v
JOIN complexes c ON v.complex_id = c.complex_id
WHERE c.complex_name = 'Melbourne Park';
```

Result Grid    Filter Rows: <input type="text"/>   Export:  Wrap Cell Co				
	venue_id	venue_name	city_name	country_name
▶	sr:venue:10536	Court 20	Melbourne	AUSTRALIA
	sr:venue:10538	Court 22	Melbourne	AUSTRALIA
	sr:venue:1572	Court 3	Melbourne	AUSTRALIA
	sr:venue:1573	Court 4	Melbourne	AUSTRALIA
	sr:venue:1574	Court 5	Melbourne	AUSTRALIA
	sr:venue:1575	Court 6	Melbourne	AUSTRALIA
	sr:venue:1576	Court 7	Melbourne	AUSTRALIA

### 3. Competitor Ranking Analysis

- Get all competitors with their rank and points.

```
SELECT comp.name AS competitor_name, cr.rank_position, cr.points
FROM competitor_rankings cr
JOIN competitors comp ON cr.competitor_id = comp.competitor_id
ORDER BY cr.rank_position ASC;
```

Result Grid    Filter Rows: <input type="text"/>   Export:			
	competitor_name	rank_position	points
▶	Glasspool, Lloyd	1	8300
	Siniakova, Katerina	1	8375
	Cash, Julian	2	7735
	Townsend, Taylor	2	7895
	Pavic, Mate	3	7370
	Arevalo-Gonzalez, Marcelo	3	7370

- Find competitors ranked in the top 5.

```
SELECT comp.name, cr.rank_position, cr.points
FROM competitor_rankings cr
JOIN competitors comp ON cr.competitor_id = comp.competitor_id
WHERE cr.rank_position <= 5
ORDER BY cr.rank_position;
```

Result Grid    Filter Rows: <input type="text"/>   Export:  Wrap Cel			
	name	rank_position	points
▶	Glasspool, Lloyd	1	8300
	Siniakova, Katerina	1	8375
	Cash, Julian	2	7735
	Townsend, Taylor	2	7895
	Pavic, Mate	3	7370
	Arevalo-Gonzalez, Marcelo	3	7370
	Errani, Sara	3	7115
	Paolini, Jasmine	3	7115
	Zeballos, Horacio	5	6915
	Routliffe, Erin	5	6250

- List competitors with no rank movement (stable rank).

```
SELECT comp.name, cr.rank_position, cr.movement
FROM competitor_rankings cr
JOIN competitors comp ON cr.competitor_id = comp.competitor_id
WHERE cr.movement = 0;
```

Result Grid			
Filter Rows:			
Export:			
	name	rank_position	movement
▶	Glasspool, Lloyd	1	0
	Skupski, Neal	9	0
	Krawietz, Kevin	10	0
	Salisbury, Joe	12	0
	Mektic, Nikola	13	0
	Bolelli, Simone	14	0
	Vavassori, Andrea	15	0
	Harrison, Christian	16	0

- Get the total points of competitors from a specific country.

```
SELECT comp.country, SUM(cr.points) AS total_points
FROM competitor_rankings cr
JOIN competitors comp ON cr.competitor_id = comp.competitor_id
WHERE comp.country = 'France';
```

Result Grid		
Filter Rows:		
Export:		
	country	total_points
▶	France	30503

- Count competitors per country.

```
SELECT comp.country, COUNT(comp.competitor_id) AS competitor_count
FROM competitors comp
GROUP BY comp.country
ORDER BY competitor_count DESC;
```

Result Grid		
Filter Rows:		
Export:		
	country	competitor_count
▶	USA	113
	Neutral	53
	Great Britain	53
	Japan	52
	France	51
	Italy	46

- Find competitors with the highest points in the current week.

```
SELECT comp.name, comp.country, cr.points
FROM competitor_rankings cr
JOIN competitors comp ON cr.competitor_id = comp.competitor_id
ORDER BY cr.points DESC
LIMIT 10;
```

Result Grid   Filter Rows:  Export:  Wrap C

	name	country	points
▶	Siniakova, Katerina	Czechia	8375
	Glasspool, Lloyd	Great Britain	8300
	Townsend, Taylor	USA	7895
	Cash, Julian	Great Britain	7735
	Pavic, Mate	Croatia	7370
	Arevalo-Gonzalez, Marcelo	El Salvador	7370
	Errani, Sara	Italy	7115
	Paolini, Jasmine	Italy	7115
	Zeballos, Horacio	Argentina	6915
	Granollers, Marcel	Spain	6825