```
Tennis Data Explorer with SportRadar API
Project Overview
Tennis Data Explorer is a data analytics web application built using
Streamlit that collects, stores, and visualizes global tennis event data
from the SportRadar API. The goal is to help sports enthusiasts, analysts,
and organizations explore tournaments, understand competition structures,
and analyze player performances interactively.
Features
View summary statistics (competitors, countries, points)
Filter & search competitors by name, country, or points
Analyze rank movement and trends
Country-wise distribution and leaderboard
Interactive charts for competition type, gender, and more
Folder Structure
bash
Сору
Edit
tennis project/
- app.py
                             # Streamlit main app
-- categories.csv
                              # Categories data
                              # Competitions data
-- competitions.csv
 - complexes.csv
                              # Complexes data
venues.csv
                              # Venues data
                              # Competitor details
 — competitors.csv
--- competitor rankings.csv
                            # Ranking data
— sql queries.sql
                              # SQL queries executed
                              # Python packages
  - requirements.txt
README.md
                              # Project documentation
Tech Stack
Tool Purpose
Python Scripting and data transformation
MySQL Data storage & query execution
Pandas Data manipulation
Plotly Interactive charts
Streamlit Web dashboard and UI
```

```
Data Source
All data is collected from the SportRadar Tennis API.
Use Cases
1.Explore competition types like ATP, WTA, and ITF
2.Understand country-wise dominance in rankings
3.Discover top-ranked tennis players
Analyze trends in event types (singles, doubles)
How to Run This Project
Clone this repository
github- https://github.com/shrutibhadoria/Projects
cd tennis-dashboard
Install dependencies
pip install -r requirements.txt
Run the Streamlit app
streamlit run app.py
SQL Queries
All SQL queries used for data analysis are saved in sql queries.sql.
🦰 Author
Shruti Bhadoria
shrutibhadoria2000@gmail.com
Status
Completed (Data Collection, SQL, and Visualization working locally)
```









