

You are assigned a data creation task. Based on the field/topic given to you, use Pandas to create a CSV file containing at least 25 entries. Each record should have relevant columns (fields) suitable for your dataset. Steps:

1. Identify 6–10 suitable columns for your assigned topic.
2. Generate realistic sample data (manually or using random generation).
3. Create a Pandas DataFrame with the data.
4. Save the data as a CSV file with a suitable filename (e.g., cricketers.csv). Submit your .csv file along with the code used to generate it.

1.Cricketer Stats: Name, Age, Country, Matches_Played, Runs, Wickets, Batting_Avg, Bowling_Avg, Role

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In [2]: import pandas as pd
data = [
    {"Name": "Virat Kohli", "Age": 34, "Country": "India", "Matches_Played": 254, "Runs": 12040, "Wickets": 4, "Batting_Avg": 58.2, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Steve Smith", "Age": 32, "Country": "Australia", "Matches_Played": 130, "Runs": 7700, "Wickets": 17, "Batting_Avg": 61.0, "Bowling_Avg": 35.5, "Role": "Batsman"},
    {"Name": "Joe Root", "Age": 31, "Country": "England", "Matches_Played": 155, "Runs": 7900, "Wickets": 25, "Batting_Avg": 50.4, "Bowling_Avg": 38.0, "Role": "Batsman"},
    {"Name": "Kane Williamson", "Age": 31, "Country": "New Zealand", "Matches_Played": 145, "Runs": 7300, "Wickets": 21, "Batting_Avg": 54.5, "Bowling_Avg": 33.2, "Role": "Batsman"},
    {"Name": "Babar Azam", "Age": 28, "Country": "Pakistan", "Matches_Played": 75, "Runs": 4050, "Wickets": 0, "Batting_Avg": 56.7, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Ben Stokes", "Age": 30, "Country": "England", "Matches_Played": 95, "Runs": 4200, "Wickets": 120, "Batting_Avg": 42.5, "Bowling_Avg": 32.1, "Role": "All-Rounder"},
    {"Name": "Jasprit Bumrah", "Age": 28, "Country": "India", "Matches_Played": 85, "Runs": 250, "Wickets": 140, "Batting_Avg": 5.2, "Bowling_Avg": 24.8, "Role": "Bowler"},
    {"Name": "Pat Cummins", "Age": 27, "Country": "Australia", "Matches_Played": 60, "Runs": 300, "Wickets": 130, "Batting_Avg": 9.0, "Bowling_Avg": 21.7, "Role": "Bowler"},
    {"Name": "Shakib Al Hasan", "Age": 33, "Country": "Bangladesh", "Matches_Played": 100, "Runs": 5200, "Wickets": 150, "Batting_Avg": 38.4, "Bowling_Avg": 29.9, "Role": "All-Rounder"},
    {"Name": "David Warner", "Age": 34, "Country": "Australia", "Matches_Played": 130, "Runs": 7400, "Wickets": 2, "Batting_Avg": 48.6, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Rohit Sharma", "Age": 33, "Country": "India", "Matches_Played": 220, "Runs": 9200, "Wickets": 8, "Batting_Avg": 49.1, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Trent Boult", "Age": 31, "Country": "New Zealand", "Matches_Played": 90, "Runs": 450, "Wickets": 150, "Batting_Avg": 12.4, "Bowling_Avg": 22.3, "Role": "Bowler"},
    {"Name": "KL Rahul", "Age": 29, "Country": "India", "Matches_Played": 75, "Runs": 3700, "Wickets": 0, "Batting_Avg": 45.8, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Hardik Pandya", "Age": 28, "Country": "India", "Matches_Played": 55, "Runs": 1200, "Wickets": 65, "Batting_Avg": 35.6, "Bowling_Avg": 28.7, "Role": "All-Rounder"},
    {"Name": "Ravindra Jadeja", "Age": 32, "Country": "India", "Matches_Played": 115, "Runs": 3300, "Wickets": 200, "Batting_Avg": 37.2, "Bowling_Avg": 25.5, "Role": "All-Rounder"},
    {"Name": "Marnus Labuschagne", "Age": 27, "Country": "Australia", "Matches_Played": 50, "Runs": 2800, "Wickets": 5, "Batting_Avg": 53.0, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Mohammed Shami", "Age": 31, "Country": "India", "Matches_Played": 75, "Runs": 200, "Wickets": 110, "Batting_Avg": 8.4, "Bowling_Avg": 26.9, "Role": "Bowler"},
    {"Name": "Rassie van der Dussen", "Age": 32, "Country": "South Africa", "Matches_Played": 40, "Runs": 2100, "Wickets": 0, "Batting_Avg": 50.3, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Quinton de Kock", "Age": 29, "Country": "South Africa", "Matches_Played": 110, "Runs": 4700, "Wickets": 0, "Batting_Avg": 44.7, "Bowling_Avg": 0.0, "Role": "Wicket-Keeper"},
    {"Name": "Kagiso Rabada", "Age": 26, "Country": "South Africa", "Matches_Played": 65, "Runs": 150, "Wickets": 130, "Batting_Avg": 10.5, "Bowling_Avg": 22.8, "Role": "Bowler"},
    {"Name": "Aaron Finch", "Age": 34, "Country": "Australia", "Matches_Played": 100, "Runs": 3900, "Wickets": 0, "Batting_Avg": 38.5, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Faf du Plessis", "Age": 35, "Country": "South Africa", "Matches_Played": 95, "Runs": 4800, "Wickets": 4, "Batting_Avg": 45.0, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Tim Southee", "Age": 33, "Country": "New Zealand", "Matches_Played": 90, "Runs": 350, "Wickets": 130, "Batting_Avg": 12.0, "Bowling_Avg": 24.5, "Role": "Bowler"},
    {"Name": "Shreyas Iyer", "Age": 27, "Country": "India", "Matches_Played": 45, "Runs": 2000, "Wickets": 0, "Batting_Avg": 43.5, "Bowling_Avg": 0.0, "Role": "Batsman"},
    {"Name": "Shaheen Afridi", "Age": 22, "Country": "Pakistan", "Matches_Played": 50, "Runs": 100, "Wickets": 80, "Batting_Avg": 8.0, "Bowling_Avg": 22.1, "Role": "Bowler"}
]
df=pd.DataFrame(data)
df.to_csv('Cricketers.csv',index=False)
print("CSV file'Cricketers.csv'created successfully.")
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CSV file'Cricketers.csv'created successfully.

2.Music Playlist :Track_ID, Song_Title, Artist, Album, Genre, Duration, Release_Year

```
In [3]: import pandas as pd
data = [
    {"Track_ID": 1, "Song_Title": "Chaiyya Chaiyya", "Artist": "A.R. Rahman", "Album": "Dil Se", "Genre": "Tamil", "Duration": "6:15", "Release_Year": 1998},
    {"Track_ID": 2, "Song_Title": "Oru Deivam Thantha Poovae", "Artist": "Ilayaraja", "Album": "Kannathil Muthamittal", "Genre": "Tamil", "Duration": "4:45", "Release_Year": 2002},
    {"Track_ID": 3, "Song_Title": "Kadhal Sadugudu", "Artist": "Yuvan Shankar Raja", "Album": "Aadhavan", "Genre": "Tamil", "Duration": "5:10", "Release_Year": 2009},
    {"Track_ID": 4, "Song_Title": "Anbae Anbae", "Artist": "Harris Jayaraj", "Album": "Minnale", "Genre": "Tamil", "Duration": "4:20", "Release_Year": 2001},
    {"Track_ID": 5, "Song_Title": "Why This Kolaveri Di", "Artist": "Anirudh Ravichander", "Album": "3", "Genre": "Tamil", "Duration": "3:02", "Release_Year": 2011},
    {"Track_ID": 6, "Song_Title": "Nila Kaigirathu", "Artist": "A.R. Rahman", "Album": "Indira", "Genre": "Tamil", "Duration": "5:30", "Release_Year": 1996},
    {"Track_ID": 7, "Song_Title": "En Kadhal Sollai", "Artist": "Ilayaraja", "Album": "Punnagai Mannan", "Genre": "Tamil", "Duration": "6:05", "Release_Year": 1986},
    {"Track_ID": 8, "Song_Title": "Thuli Thuli", "Artist": "Yuvan Shankar Raja", "Album": "Paiyaa", "Genre": "Tamil", "Duration": "4:35", "Release_Year": 2010},
    {"Track_ID": 9, "Song_Title": "Vaseegara", "Artist": "Harris Jayaraj", "Album": "Minnale", "Genre": "Tamil", "Duration": "4:50", "Release_Year": 2001},
    {"Track_ID": 10, "Song_Title": "Surviva", "Artist": "Anirudh Ravichander", "Album": "Vivegam", "Genre": "Tamil", "Duration": "4:22", "Release_Year": 2017},
    {"Track_ID": 11, "Song_Title": "Kannalanae", "Artist": "A.R. Rahman", "Album": "Bombay", "Genre": "Tamil", "Duration": "6:00", "Release_Year": 1995},
    {"Track_ID": 12, "Song_Title": "Rakkamma Kaiya Thattu", "Artist": "Ilayaraja", "Album": "Thalapathi", "Genre": "Tamil", "Duration": "5:15", "Release_Year": 1991},
    {"Track_ID": 13, "Song_Title": "Satham Illatha", "Artist": "Yuvan Shankar Raja", "Album": "7G Rainbow Colony", "Genre": "Tamil", "Duration": "4:00", "Release_Year": 2004},
    {"Track_ID": 14, "Song_Title": "June Ponal", "Artist": "Harris Jayaraj", "Album": "Unnale Unnale", "Genre": "Tamil", "Duration": "4:10", "Release_Year": 2007},
    {"Track_ID": 15, "Song_Title": "Vaathi Coming", "Artist": "Anirudh Ravichander", "Album": "Master", "Genre": "Tamil", "Duration": "3:15", "Release_Year": 2021},
    {"Track_ID": 16, "Song_Title": "Pudhu Vellai Mazhai", "Artist": "A.R. Rahman", "Album": "Roja", "Genre": "Tamil", "Duration": "4:55", "Release_Year": 1992},
    {"Track_ID": 17, "Song_Title": "Ilaya Nila", "Artist": "Ilayaraja", "Album": "Payanangal Mudiavathillai", "Genre": "Tamil", "Duration": "4:40", "Release_Year": 1982},
    {"Track_ID": 18, "Song_Title": "Oru Kal Oru Kannadi", "Artist": "Yuvan Shankar Raja", "Album": "Siva Manasula Sakthi", "Genre": "Tamil", "Duration": "4:25", "Release_Year": 2009},
    {"Track_ID": 19, "Song_Title": "Vinnaithaandi Varuvaayaa", "Artist": "Harris Jayaraj", "Album": "Vinnaithaandi Varuvaayaa", "Genre": "Tamil", "Duration": "5:00", "Release_Year": 2010},
    {"Track_ID": 20, "Song_Title": "Singappenney", "Artist": "Anirudh Ravichander", "Album": "Bigil", "Genre": "Tamil", "Duration": "4:00", "Release_Year": 2019},
    {"Track_ID": 21, "Song_Title": "Jai Ho", "Artist": "A.R. Rahman", "Album": "Slumdog Millionaire", "Genre": "Tamil", "Duration": "5:12", "Release_Year": 2008},
    {"Track_ID": 22, "Song_Title": "Neethane", "Artist": "Ilayaraja", "Album": "Moondram Pirai", "Genre": "Tamil", "Duration": "5:20", "Release_Year": 1982},
    {"Track_ID": 23, "Song_Title": "Iragai Pole", "Artist": "Yuvan Shankar Raja", "Album": "Paiyaa", "Genre": "Tamil", "Duration": "3:50", "Release_Year": 2010},
    {"Track_ID": 24, "Song_Title": "Sakkarakatti", "Artist": "Harris Jayaraj", "Album": "Sakkarakatti", "Genre": "Tamil", "Duration": "4:15", "Release_Year": 2008},
    {"Track_ID": 25, "Song_Title": "Naan Pizhaippeno", "Artist": "Anirudh Ravichander", "Album": "Aaranya Kaandam", "Genre": "Tamil", "Duration": "5:05", "Release_Year": 2010}
]
df = pd.DataFrame(data)
df.to_csv('Tamil_Music_Playlist.csv', index=False)
print("CSV file 'Tamil_Music_Playlist.csv' created successfully with 25 Tamil songs.")
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CSV file 'Tamil_Music_Playlist.csv' created successfully with 25 Tamil songs.