```
     46   3746          23                      20
     95   3997          77                      20


Enter player name to show stats: KL Latham


--------------------------------
PLAYER DETAILS
--------------------------------
SL No                                          13
Name                                    KL Latham
Role                                  All-Rounder
Specialization             Batting All-Rounder
Strike Rate                                   140
Economy                                      6.81
Runs                                         2694
Wickets                                       139
Base Price (Lakhs)                             30
Name: 12, dtype: object

Base Price (Lakhs): 30
Predicted Price to Buy (Lakhs): 431.98
--------------------------------
```
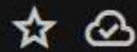
```
Filtered Players:
                     Name        Role       Specialization  Strike Rate  Economy  \
7     Shakib Chandimal  All-Rounder  Batting All-Rounder          145     5.86
12          KL Latham  All-Rounder  Batting All-Rounder          140     6.81
37         Travis Head  All-Rounder  Batting All-Rounder          174     6.79
46          Babar Nabi  All-Rounder  Batting All-Rounder          165     6.08
95  Shaheen Hazlewood  All-Rounder  Batting All-Rounder          178     6.29

     Runs  Wickets  Base Price (Lakhs)
7    3734      104                  30
12   2694      139                  30
37   3822      130                 100
46   3746       23                  20
95   3997       77                  20

Enter player name to show stats: KL Latham


-----------------------------
PLAYER DETAILS
-----------------------------
SL No                              13
Name                        KL Latham
Role                      All-Rounder
Specialization    Batting All-Rounder
```

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```
print("\nBase Price (Lakhs):", base_price)
print("Predicted Price to Buy (Lakhs):", predicted)
print("------------------------------")
```

```
Available Roles:
- All-Rounder
- Batter
- Bowler
- Wicket-Keeper

Enter Role: All-Rounder

Available Specializations:
- Balanced
- Batting All-Rounder
- Bowling All-Rounder

Enter Specialization: Batting All-Rounder

Enter minimum Strike Rate: 120
Enter maximum Economy: 8

  Filtered Players:
```

ipl_Auction.ipynb

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```python
    filtered = filter_players(df, role, spec, min_sr, max_econ)

    if filtered.empty:
        print("\n No players found for given conditions.")
    else:
        print("\n Filtered Players:")
        print(filtered[["Name", "Role", "Specialization", "Strike Rate", "Economy",
                        "Runs", "Wickets", "Base Price (Lakhs)"]])


        player = select_player(filtered)

        if player is not None:
            base_price = player["Base Price (Lakhs)"]
            predicted = predicted_price(player)

            print("\n------------------------------")
            print("PLAYER DETAILS")
            print("------------------------------")
            print(player)

            print("\nBase Price (Lakhs):", base_price)
```

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```python
roles = show_roles(df)
role = input("\nEnter Role: ").strip().lower()

specs = show_specializations(df, role)
spec = input("\nEnter Specialization: ").strip().lower()

# Step 3: Inputs based on role
min_sr = None
max_econ = None

if role in ["batter", "wicket-keeper"]:
    min_sr = float(input("\nEnter minimum Strike Rate: "))

if role == "bowler":
    max_econ = float(input("\nEnter maximum Economy: "))

if role == "all-rounder":
    min_sr = float(input("\nEnter minimum Strike Rate: "))
    max_econ = float(input("Enter maximum Economy: "))

filtered = filter_players(df, role, spec, min_sr, max_econ)
```