SESSION PLAN 5	
Session Name	Data Wrangling with Pandas

Learning Outcomes

- Loading data into Pandas dataframe.
- Perform common data manipulation tasks
- Use functions such as groupby, merge, and pivot tables effectively.

Prerequisites for the Student

Data Wrangling with Pandas

Student Activities

- Create a dictionary of the data given below and save it as ipl_data.
 - Import Pandas Library
 - {'Team': ['Riders', 'Riders', 'Devils', 'Devils', 'Kings', 'kings', 'Kings', 'Kings', 'Riders', 'Royals', 'Royals', 'Riders'], 'Rank': [1, 2, 2, 3, 3,4,1,1,2,4,1,2],

'Year': [2014,2015,2014,2015,2014,2015,2016,2017,2016,2014,2015,2017],

'Points':[876,789,863,673,741,812,756,788,694,701,804,690]}

- Convert dictionary into DataFrame and save it in df.
- Apply groupby on year and save it as grouped.
- Print 2014 data by using get_group on grouped
- Overview of Data Wrangling with Pandas
 - Conditional Filtering
 - GroupBy
 - Pivot table
 - Concat, Merge and Join
- Practice problems on Conditional Filtering, GroupBy, Pivot table, Concat, Merge and Join,
 - Refer the GitHub repo for problems
- Quiz on Data Wrangling with Pandas.
- Questions and Discussion on doubts AMA

Next Session

- Concept Visualize data using Matplotlib (15 mins)
- Key topics to be highlighted highlight where they would need to spend more time and importance w.r.t Data Science.
 - o Terminologies in matplotlib
 - Different types of plots
 - Plot customizations
 - Visualization with Pandas