

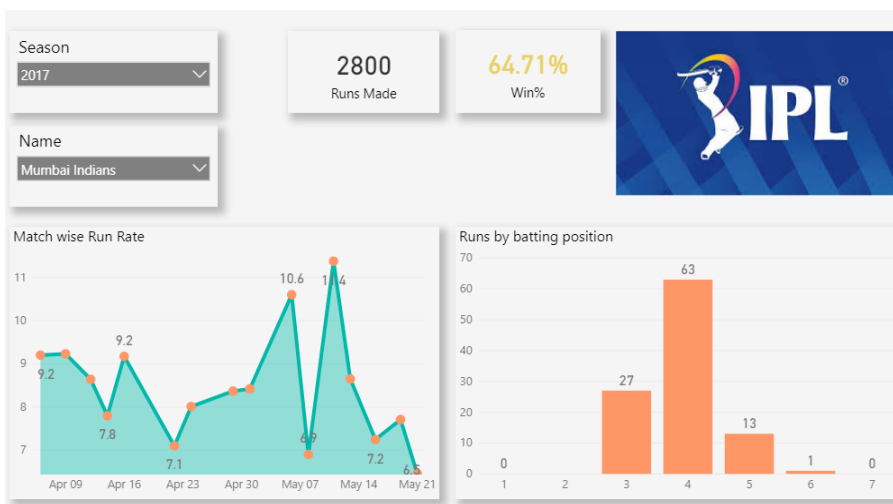
Before you start...

Ensure you have the following items ready :

- **Access to Excel 2016** or beyond
- Access to any **screen-recording** tool. Ex. you can use **Bandicam** (Download [here](#))
- Download the file **submission_template.pbix** file from [here](#) to start
- [Link](#) to the response sheet where you will be logging the outcomes of the project

Activity - 1

- The goal of this activity and the next one is to build a dashboard page which looks something similar to the one shown below



- Let's start doing the same. Work on the below mentioned steps :
- Open the provided Power BI template file called **submission_template.pbix**

1.1) Create a **new column** called **Is_Winner** which indicates 1 if a given playing team also ends up winning the match else 0. (**Note** : Use **DAX**)

1.2) Create a **new measure** called **Win%** which indicates % of matches won by a given team out of the total matches played

1.3) Perform color formatting of the value as per below logic :

- If Win% $\leq 33\%$, then Color = **Red**
 - If Win% $> 33\%$ and $\leq 66\%$, then Color = **Yellow**
 - Else **Green**
-

Activity - 2

- Good job with the above activity. Let's build some visuals now

2.1) Create the 2 slicers (Use the datasets **season_key** and **team_key** respectively)

- Ensure that the values in the slicer are set to **single-select**

2.2) Create 2 KPI cards as shown in the snapshot

2.3) Create a chart to show match wise run_rate for a selected **season** and **team**

2.4) Create a column chart (as shown in bottom right) to show run contribution (to be shown as %) by batting position

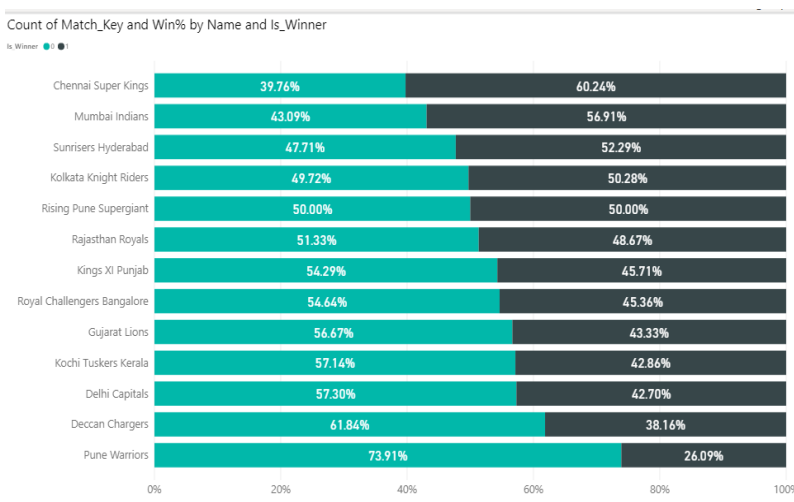
2.5) Insert an image on top right (as shown above. Surf the web to fetch an appropriate image)

Activity - 3

- Build the two visuals (in 2 separate pages as shown below)

3.1) Visual 1 : This shows **Win%** by team

- Ensure that the matches which are won are highlighted in **GREEN** and those which are lost are highlighted in **RED**



3.2) Visual 2 : Shows **Year-on-Year change** in runs made, fours and sixes hit.

- **Note :** Add a **batsman filter** and play around with different well known batsman and observe their run making trend across the seasons :)

Year	R YoY%	fours YoY%	sixes YoY%
2009	-17.17%	-25.52%	-21.06%
2010	22.81%	29.86%	15.61%
2011	12.37%	11.94%	9.23%
2012	7.00%	-0.10%	14.40%
2013	0.49%	7.38%	-8.07%
2014	-17.69%	-24.90%	4.02%
2015	-1.29%	4.28%	-1.00%
2016	3.18%	1.56%	-7.80%
2017	-0.31%	-1.41%	10.50%
2018	6.65%	2.61%	23.69%
2019	-2.75%	0.06%	-10.09%

Activity - 4

4.1) Create a new table (**use DAX**) to create a team-wise summary having following columns (for IPL 2017)

- **Team_Name**
 - **#matches_played**
 - **#total_runs_made**
 - **Total_fours_hit**
 - **Total_sixes_hit**
 - **Highest_run_rate**
 - **Total_Boundary_Contribution(%)**
-

Activity - 5

5.1) Create a new hierarchy for a match. The prescribed order : **Match --> Team --> Batsman**

5.2) Use the **match hierarchy** and **batting position** to build a matrix as shown below. (**Psst** : The ask here is to find out more **versatile batsmen** who can be experimented with **different** batting positions)

- **Visual** : This shows **no. of matches played** by a given **batsman** for a given **batting position** (for a given team-batsman hierarchy)
- **Hide** the column totals

team	1	2	3	4	5	6	7	8	9	10	11	Total
Chennai Super Kings	99	99	97	91	87	63	44	25	13	7	2	99
A Flintoff					1							1
A Nehra									2	1		3
BB McCullum		21	1	2								24
CH Morris							2	1				3
CK Kapugedera						1						1
DJ Bravo				3	8	8	8	3				30
DJ Hussey			1		1	1						3
DR Smith	25											25
F du Plessis	4	5	5	11	2	1						28
GJ Bailey	1	1	1									3
JA Morkel				1	19	9	6	4				39
JDP Oram					3	4	1					8
JM Kemp						1						1
KMDN Kulasekara									1			1
L Balaji									5			5
M Manhas							5					5
M Muralitharan										2	1	3
M Ntini										1		1
M Vijay	21	24	1	2			1					49
MEK Hussey	25	11	3			1						40
ML Hayden		21	2									23
MM Sharma									3	1		4
MS Dhoni			6	35	33	10	2					86
MS Gurusamy							2	1				3
Total	317	317	317	317	316	306	281	249	189	130	70	317