**STEP IN PROJECT**

* + **Requirement Gathering**
  + **Data Overview**
  + **Connecting Data with Power bi**
  + **Data Cleaning**
  + **Data Modeling**
  + **Background Design in Power Point**
  + **Data Visualization and Charts Designs**
  + **Dashboard Building**
  + **Insights**

**REQUIREMENT**

**below requirements: -**

* **Primary KPI – IPL Winner**
* **Primary KPI – Purple and Orange cap holder**
* **Secondary KPI – Total Sixes and fours of the season**
* **Secondary KPI – Stats by player(Batter/Bowler)**
* **Total Wins by teams.**
* **Total Wins by Venue.**
* **Toss Decision**

**POWER BI FUNCTIONALITES: -**

**Data Cleaning in power query: -**

* **Found Spell mistake under Team1, Team2, Winning Team, Toss winner, Location column**
* **Rising Pune Supergiants and Rising Pune Supergiant) – corrected.**
* **Bangalore and Bengaluru**
* **Split the Venue column by city (Some venues have city and some or not)**
* **Merge Venue and City column.**
* **Checked quality of all the columns – no issues found.**

**Data Processing: -**

* **Create a calendar/Date table by using time intelligence function – Calendar/CalendarAuto function**
* DIMDATE = CALENDAR(MIN(ipl\_matches\_2008\_2022[match\_date]), MAX(ipl\_matches\_2008\_2022[match\_date]))
* **Created new calculated columns like – YEAR, MONTH, WEEKDAY, FORMAT, CONCATENATE, QUARTER, WEEKEND....**

**Data Modeling (Relationship b/w Multiple tables): -**

* **We have created relationship between DIMDATE and IPL able. (ONE -TO- MANY)**

**KPI and Advance KPI generation: -**

* **Find out title winner:**
* Title Winner =

Var Max\_date = CALCULATE(MAX(DIMDATE[Date]), ALLSELECTED(ipl\_matches\_2008\_2022), VALUES(ipl\_matches\_2008\_2022))

Var Winner = CALCULATE(SELECTEDVALUE(ipl\_matches\_2008\_2022[winning\_team]), DIMDATE[Date] = Max\_date)

return Winner

* **Find out Orange Cap Holder:**

Batters Run = CONCATENATE(SUM(ipl\_ball\_by\_ball\_2008\_2022[batsman\_run]), " Runs")

* **Find out Purple Cap Holder:**

Bowler Wickets = CONCATENATE(SUM(ipl\_ball\_by\_ball\_2008\_2022[iswicket\_delivery]), " Wickets")

* **Find out Bowler Economy rate: (**dividing the number of runs conceded by a bowler by the number of overs bowled.**)**

Economy rate =

DIVIDE(SUMX(FILTER(ipl\_ball\_by\_ball\_2008\_2022, ipl\_ball\_by\_ball\_2008\_2022[extra\_type] <> "Legbyes" && ipl\_ball\_by\_ball\_2008\_2022[extra\_type]<> "Byes"), ipl\_ball\_by\_ball\_2008\_2022[total\_run]),(COUNT(ipl\_ball\_by\_ball\_2008\_2022[overs]))/6)

* **Find out Bowler Average rate: (**dividing the numbers of runs conceded by a bowler by the number of wickets they have taken)

Average =

DIVIDE(SUMX(FILTER(ipl\_ball\_by\_ball\_2008\_2022, ipl\_ball\_by\_ball\_2008\_2022[extra\_type] <> "Legbyes" && ipl\_ball\_by\_ball\_2008\_2022[extra\_type]<> "Byes"), ipl\_ball\_by\_ball\_2008\_2022[total\_run]),(SUM(ipl\_ball\_by\_ball\_2008\_2022[iswicket\_delivery])))

* **Find out Batter Strike rate: (**Number of runs scored / Number of balls faced) \* 100

Strike Rate = 100\*(SUM(ipl\_ball\_by\_ball\_2008\_2022[batsman\_run])/COUNT(ipl\_ball\_by\_ball\_2008\_2022[ball\_number]))

* **Find out Bowler Strike rate: (**Balls Bowled / Wickets Taken)

Bowler SR = COUNT(ipl\_ball\_by\_ball\_2008\_2022[bowler])/SUM(ipl\_ball\_by\_ball\_2008\_2022[iswicket\_delivery])

* **Find out match winner by toss.**

MatchWInnBytoss = CALCULATE(COUNTROWS(ipl\_matches\_2008\_2022), ipl\_matches\_2008\_2022[toss\_winner] = ipl\_matches\_2008\_2022[winning\_team])

* **Creating a Calculated measure**

**Import images**

* **We have use some vehicle pics for better visualization.**

**Creating a different Charts for visualization**

* **We have used below chart to show trends**
* **Bar chart**
* **Pie chart**
* **Card to show KPI values.**