

Sri Lanka Institute of Information Technology

Assignment 2

IT3021 - Data Warehousing and Business Intelligence 2022

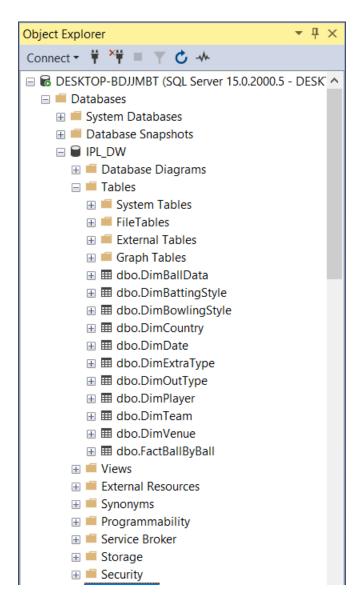
IT20183554

Chandrasena M.C

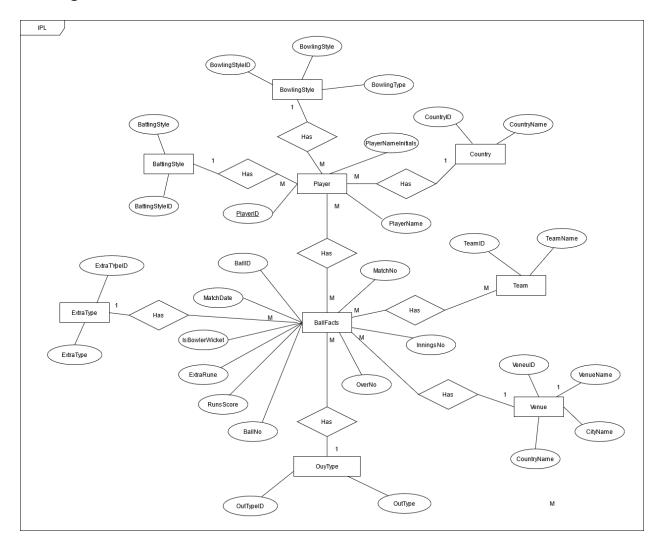
Data source for the assignment

I used data warehouse database (IPL_DW) as the data source which I created in Assignment 1.It consists of a snowflake schema and consists of ten dimensions and fact table.

Given below are the dimensions and facts of the data source;



ER diagram



SSAS Cube implementation

Following tools were used in creating the SSAS cube;

SSAS

SQL Server Management Studio

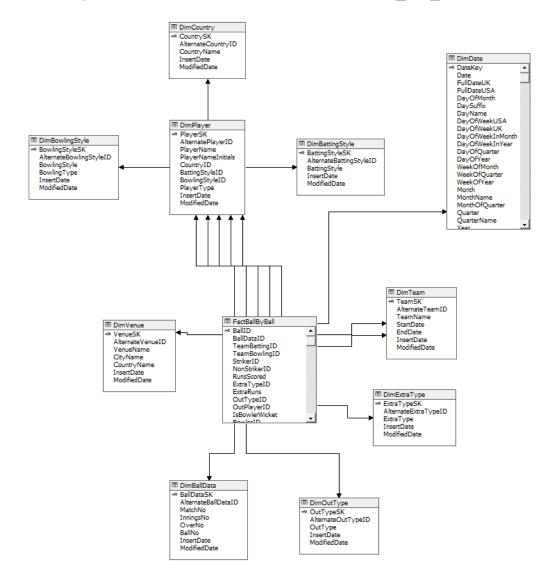
SSDT

Create a Data source

First data source was created in order to get data for the cube

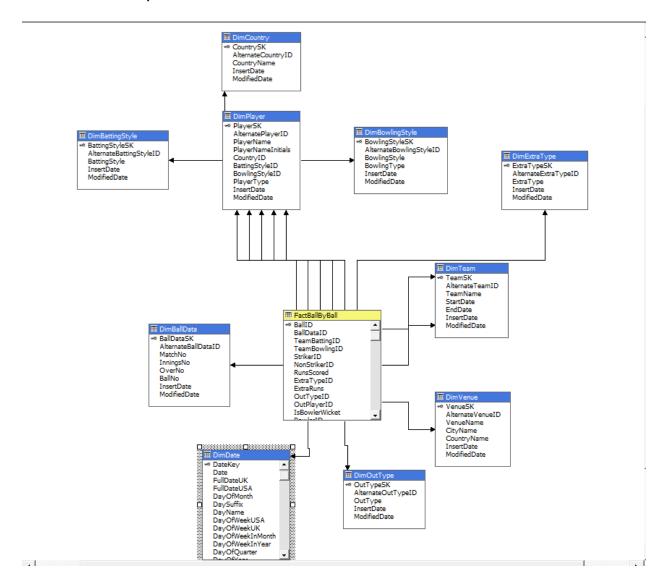
Create a Data Source View

As second step data source view was created as DSV_IPL_DW



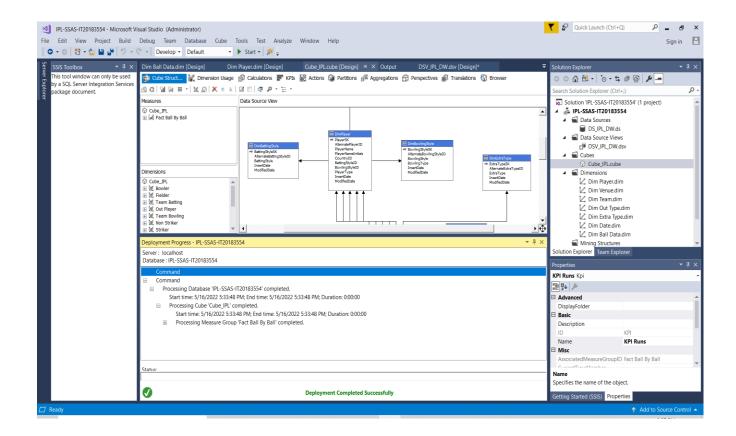
Create the Cube

As the third step SSAS cube was created



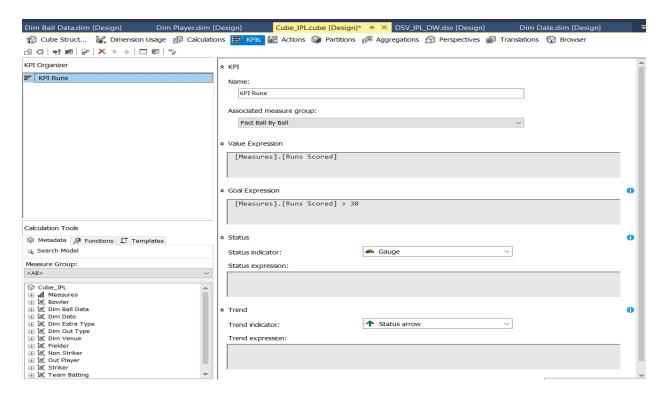
Deploy the Cube

Next the attributes were added to the dimensions and deployed the cube.

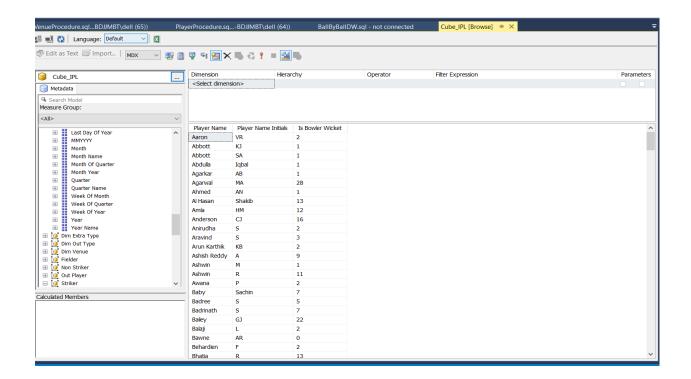


Create KPI

Next a KPI was created to get the players who have scored more than 30.



Browse Cube Data

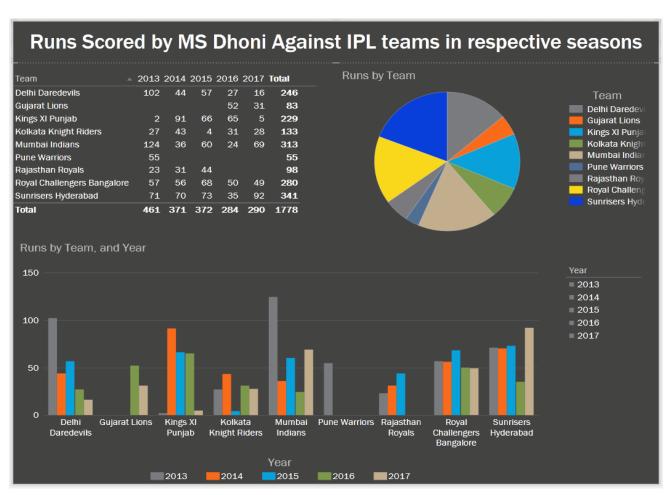


Demonstration of OLAP operations

Slice

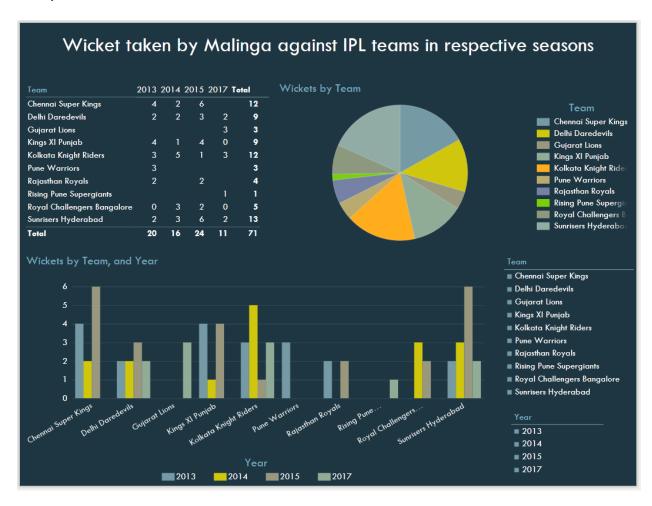
Runs scored by Dhoni against IPL teams is show by the below table and charts. We can slice the data according to the season/year using the year slicer.

Note – In any of these table null values are not set to zero because having null values doesn't mean the player hasn't scored runs or wickets, it means that he has not played that ball, over or match.



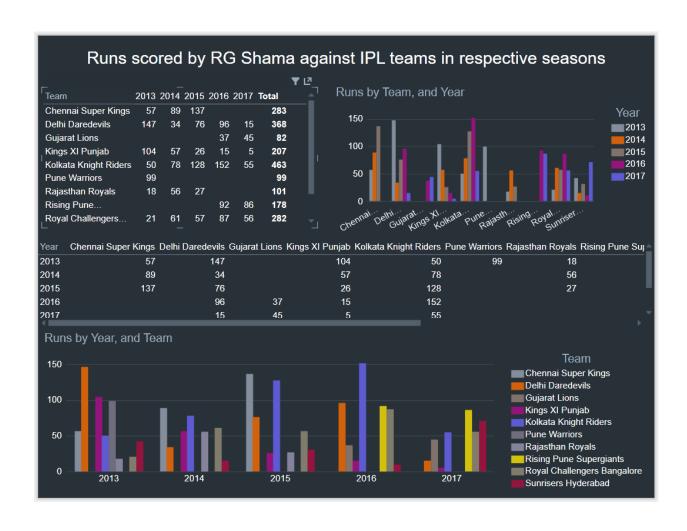
Dice

Wickets taken by Malinga against IPL teams is show by the below table and graphs. We can dice the data according to the season/year and team using the year slicer and team slicer.



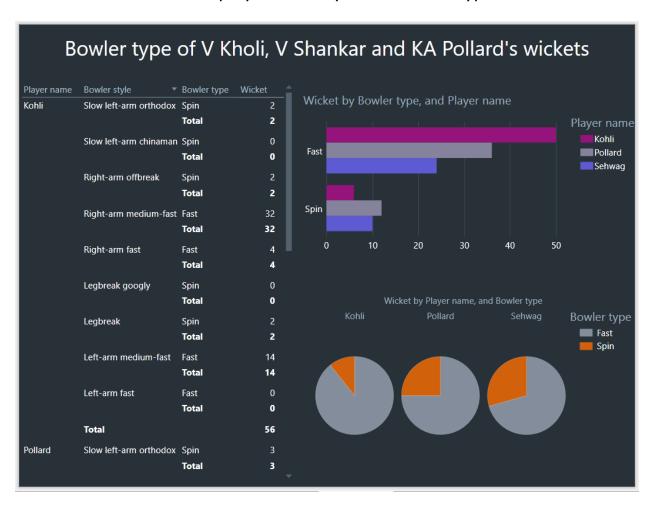
Pivot

Runs scored by Sharma against IPL teams is show by the below table and charts. The pivot table and chart using team and year is show in bottom diagrams.



Roll-up

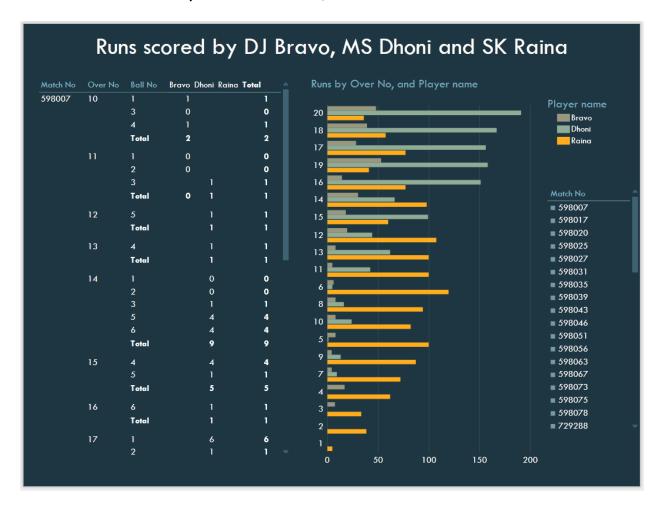
Bowler type of Kholi, Shankar, pollard's wickets is show by the below table and charts. We can roll-up by bowler style and bowler type.



Drill-Down

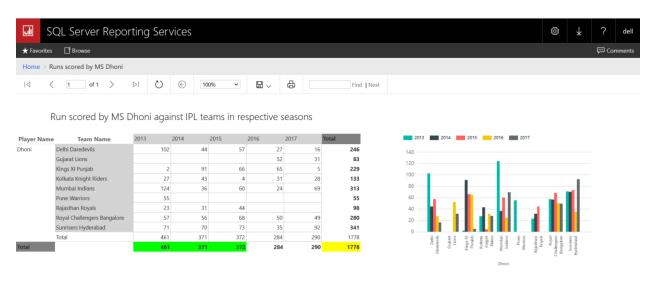
Runs scored by Bravo. Dhoni, Raina is show by the below table and charts.

We can Drill-Down by Match number, over number and ball number..

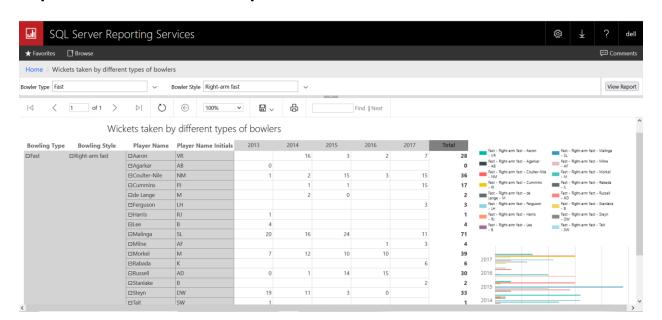


SSRS Reports

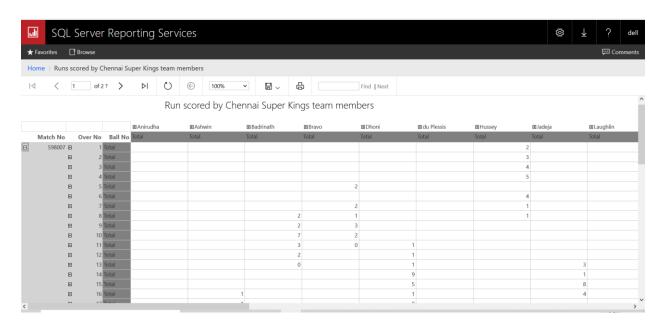
Report with a matrix



Report with more than one parameter

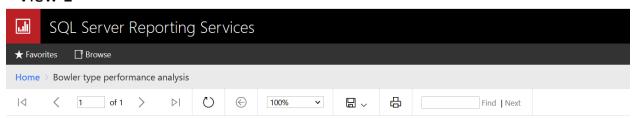


SSRS drill-down report

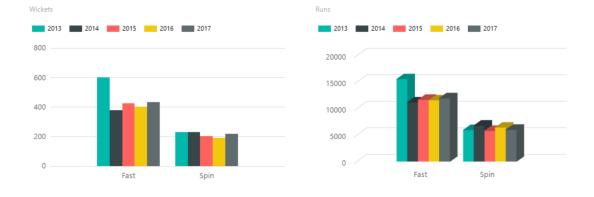


SSRS drill-through report

View 1



Bowler type performance analysis



View 2



Bowler style performance analysis

