



Sri Lanka Institute of Information Technology

Assignment - 02

IT3021 - Data Warehousing and Business Intelligence

2025

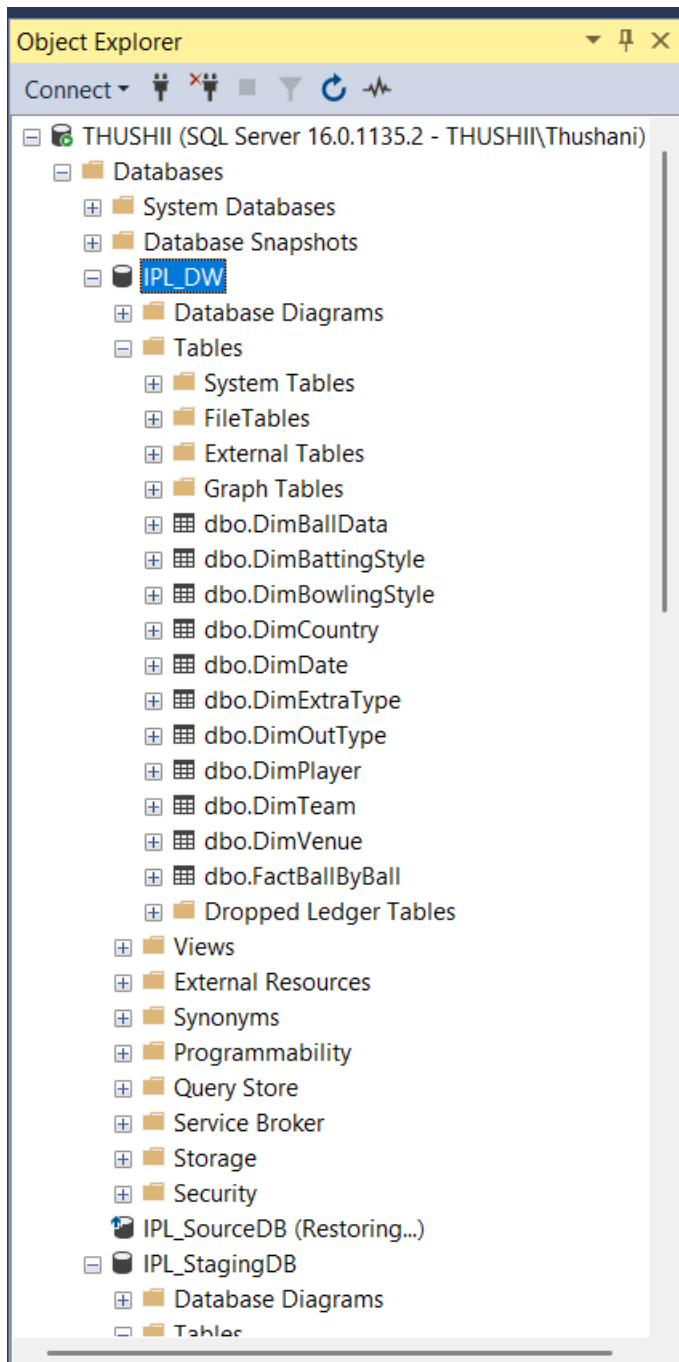
IT22604644

KAVINDYA K.T.

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;

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



Create a Data source

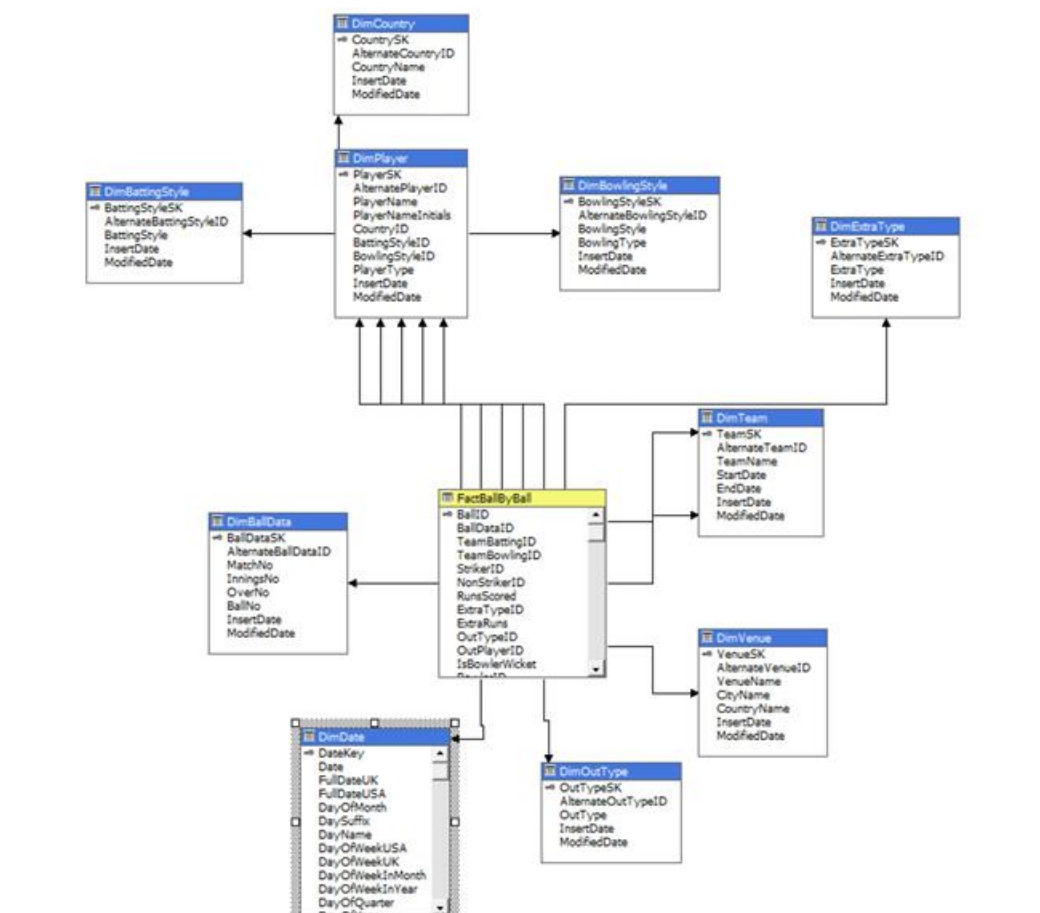
First data source was created in order to get data for the cube

Create a Data Source View

As second step data source view was created as DSV_IPL_DW

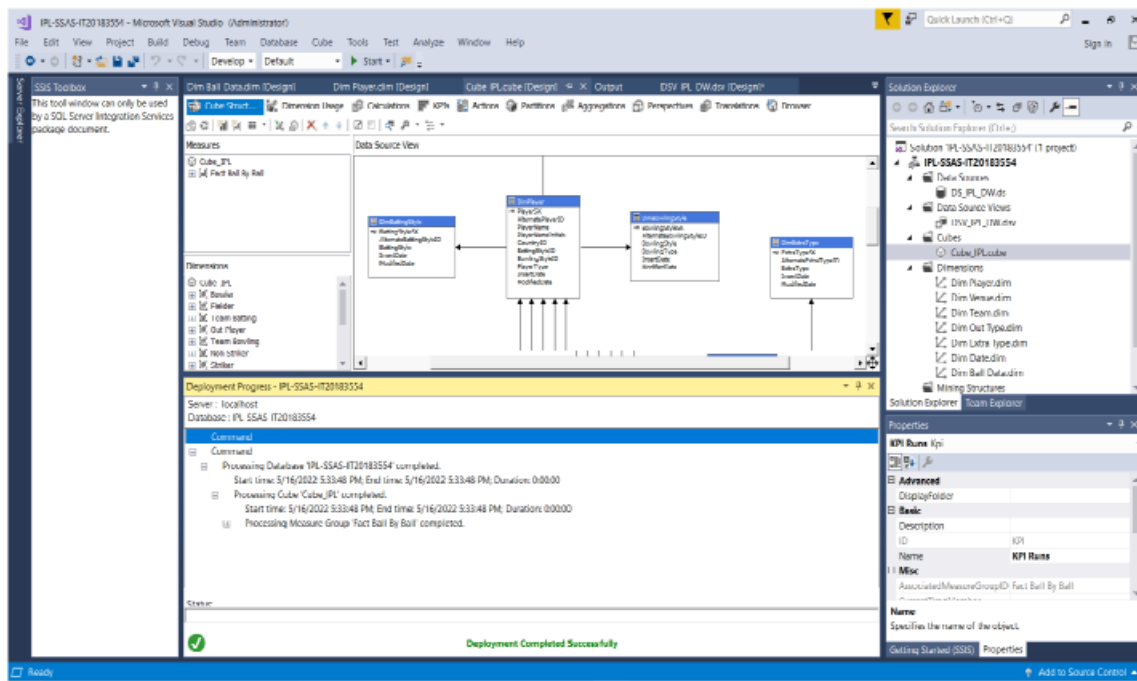
Create the Cube

As the third step SSAS cube was created



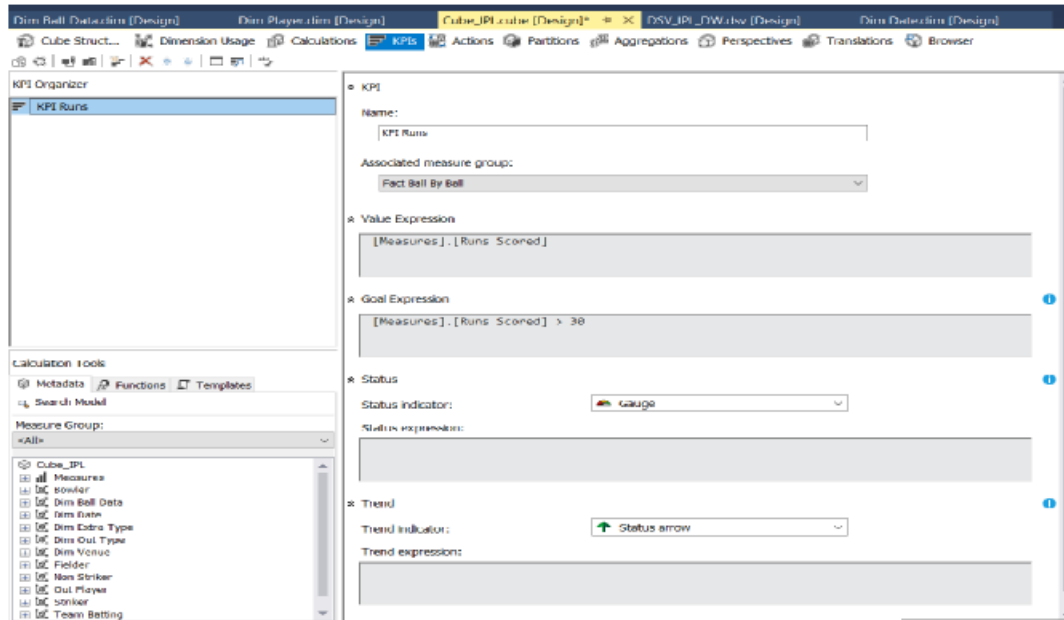
Deploy the Cube

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

The screenshot shows the Tableau Desktop interface. The top bar displays several connections: 'venueProcedure.sql..._BDJIMBTJrefl (65)', 'PlayerProcedure.sql..._BDJIMBTJrefl (64)', 'BaliByBaliOwq.r - not connected', and 'Cube IPL [Browse]'. Below the toolbar, the 'Edit as Text' tab is active. On the left, the 'Cube_IPL' cube is selected under 'Metadata'. The 'Measure Group' pane shows various dimensions like 'Last Day Of Year', 'Month', 'Quarter', etc. The main view displays a table with columns: 'Dimension', 'Hierarchy', 'Operator', 'Filter Expression', and 'Parameters'. A red dot indicates a filter expression. The table lists players and their wicket counts.

Dimension	Hierarchy	Operator	Filter Expression	Parameters
<Select dimension>				
Player Name	Player Name Initials	Is Bowler Wicket		
Aaron	VIR	2		
Abbott	KI	1		
Abbott	SA	1		
Abdulla	Iqbal	1		
Agarwal	AB	1		
Agarwal	MA	28		
Ahmed	AN	1		
Al Hasan	Shakib	13		
Anila	HN	12		
Anderson	CJ	16		
Anrutha	S	2		
Arunnd	S	3		
Arun karthik	KR	2		
Ashish Reddy	A	9		
Adwin	M	1		
Adwin	R	11		
Awane	P	2		
Baby	Sachin	7		
Radree	S	5		
Radrinath	S	7		
Baley	GJ	22		
Balaj	L	2		
Bawne	AR	0		
Beharden	F	2		
Bhatia	RL	13		

Demonstration of OLAP operations

- Slice

Country Name

☐

(Blank)

☐

Afghanistan

☐

Australia

☐

Bangladesh

☐

England

☐

India

☐

Netherlands

☐

New Zealand

☐

Pakistan

☐

South Africa

☐

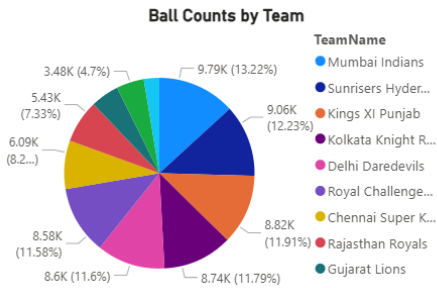
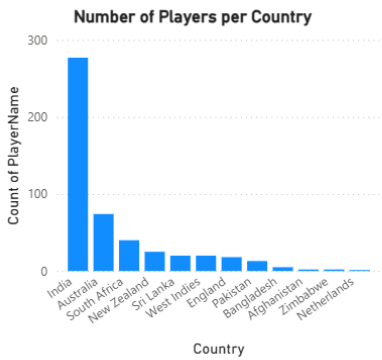
Sri Lanka

☐

West Indies

☐

Zimbabwe



PlayerName

☐

(Blank)

☐

Aaron

☐

Abbott

☐

Abdulla

☐

Ablish

☐

Afridi

☐

Agarkar

☐

Agarwal

☐

Ahmed

☐

Akhil

☐

Akhtar

☐

Akmal

☐

Al Hasan

☐

Amarnath

☐

Amla

☐

Anderson

☐

Anirudha

☐

Appanna

☐

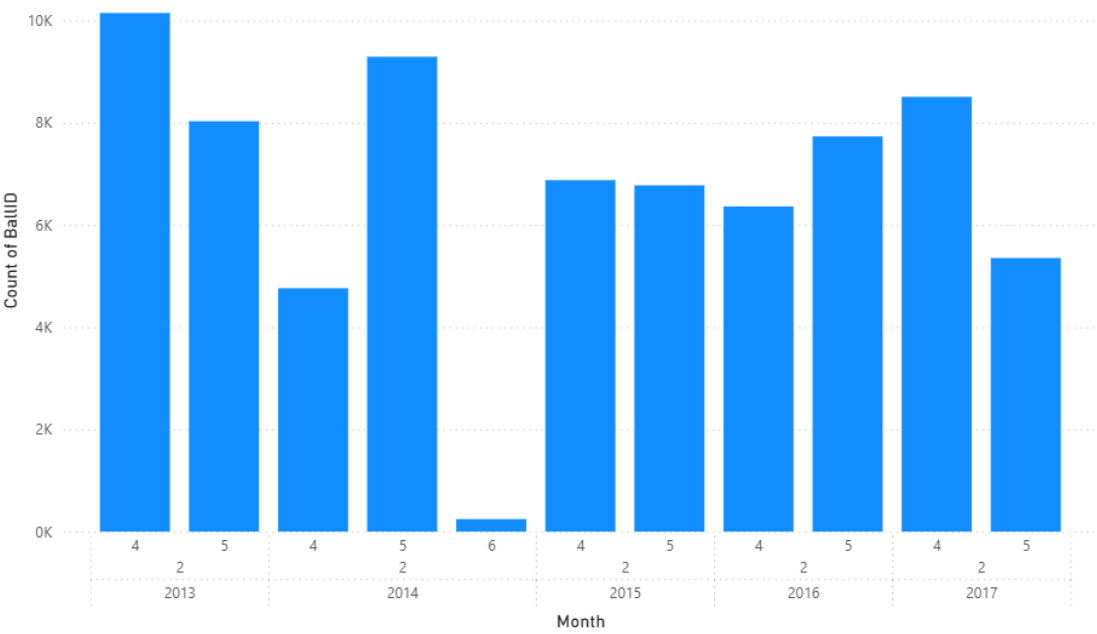
Aravind

☐

Arun Karthik

Drill-Down

Count of BallID by Year, Quarter and Month



Power BI Reports

- Report 1

Ball Counts by Player and Day of Week

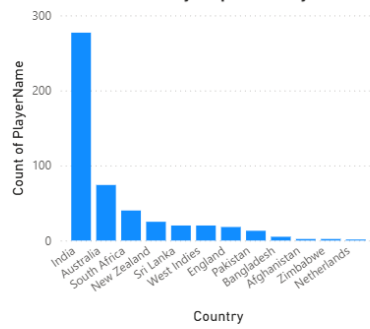
PlayerName	Friday	Monday	Saturday	Sunday	Thursday	Tuesday	Wednesday	Total
Aaron	51	116	143	155	59	53	58	635
Abbott		14	54	25		20	21	134
Abdulla	62	75	21	117	24	61	75	435
Agarkar				19	26	18		63
Agarwal				24				24
Ahmed		27	48	49	24	59		207
Al Hasan	42	52	117	105	74	98	116	604
Anderson	35	14	50	50	22	18	70	259
Aravind	61	52	42	146	20	43	118	482
Ashish Reddy	12	6	37	18	11	17		101
Ashwin	234	88	289	252	218	234	112	1427
Awana	45	50	48	150	76	97	12	478
Baby			4				6	10
Badree	43		92	85	18	25		263
Balaji	95	24	68	122	46	71	96	522
Baroka				21				21
Bhatia	96	60	97	158	131	135	102	779
Bhatt	19					12		31
Binny	75	56	86	84	24	48	90	463
Boland				19	24			43
Bopara		19	56		42		6	123
Botha	18	25	31		6	37	47	164
Boult	51	80	125	24	50		25	355
Brathwaite	49		51	44	12		25	181
Bravo	125	98	228	227	162	131	93	1064
Bumrah	80	155	227	247	146	48	180	1083
Cariappa	51	43	56	42			19	211
Chahal	123	194	189	307	92	147	167	1219
Chahar	18		61		12	32		123
Total	9633	7993	13979	15197	8423	9138	9721	74084

• Report 2

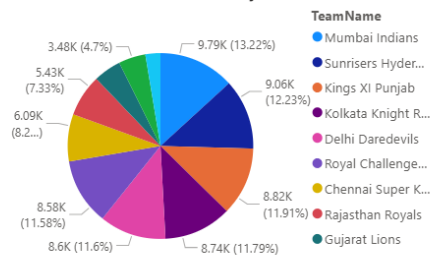
Country Name

- ☐ (Blank)
- ☐ Afghanistan
- ☐ Australia
- ☐ Bangladesh
- ☐ England
- ☐ India
- ☐ Netherlands
- ☐ New Zealand
- ☐ Pakistan
- ☐ South Africa
- ☐ Sri Lanka
- ☐ West Indies
- ☐ Zimbabwe

Number of Players per Country



Ball Counts by Team

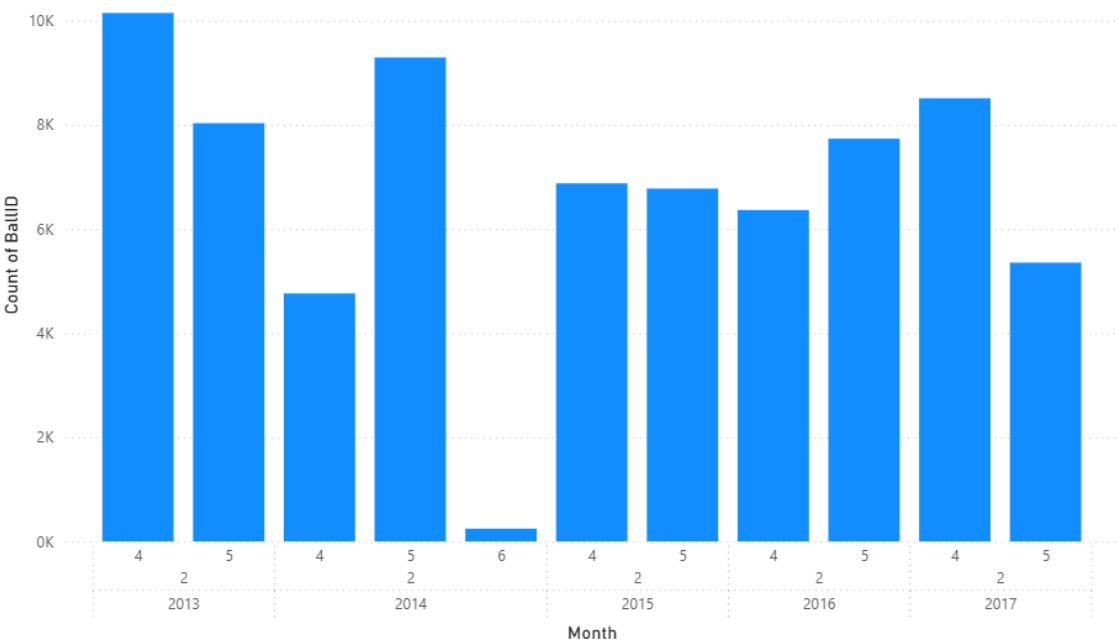


PlayerName

- ☐ (Blank)
- ☐ Aaron
- ☐ Abbott
- ☐ Abdulla
- ☐ Ablish
- ☐ Afridi
- ☐ Agarkar
- ☐ Agarwal
- ☐ Ahmed
- ☐ Akhil
- ☐ Akhtar
- ☐ Akmal
- ☐ Al Hasan
- ☐ Amarnath
- ☐ Amla
- ☐ Anderson
- ☐ Anirudha
- ☐ Appanna
- ☐ Aravind
- ☐ Arun Karthik

- Report 3

Count of BallID by Year, Quarter and Month



- **Report 4**

PlayerName	MatchDate	Sum of RunsScored	VenueName
Sharma	20130405	42	Rajiv Gandhi International Stadium Uppal
Sharma	20130407	44	Rajiv Gandhi International Stadium Uppal
Sharma	20130407	20	Subrata Roy Sahara Stadium
Sharma	20130409	30	M Chinnaswamy Stadium
Sharma	20130411	16	Subrata Roy Sahara Stadium
Sharma	20130412	32	Feroz Shah Kotla
Sharma	20130413	13	MA Chidambaram Stadium, Chepauk
Sharma	20130413	27	Wankhede Stadium
Sharma	20130414	45	Eden Gardens
Sharma	20130415	24	MA Chidambaram Stadium, Chepauk
Sharma	20130417	56	Subrata Roy Sahara Stadium
Sharma	20130418	8	Feroz Shah Kotla
Sharma	20130419	46	Rajiv Gandhi International Stadium Uppal
Sharma	20130420	13	Eden Gardens
Sharma	20130421	28	Punjab Cricket Association Stadium Mohali
Sharma	20130422	19	MA Chidambaram Stadium, Chepauk
Sharma	20130425	73	MA Chidambaram Stadium, Chepauk
Sharma	20130427	59	Sawai Mansingh Stadium
Sharma	20130428	23	MA Chidambaram Stadium, Chepauk
Sharma	20130428	23	Shaheed Veer Narayan Singh International Stadium
Sharma	20130430	47	Subrata Roy Sahara Stadium
Sharma	20130501	43	Rajiv Gandhi International Stadium Uppal
Sharma	20130502	31	MA Chidambaram Stadium, Chepauk
Sharma	20130502	36	Subrata Roy Sahara Stadium
Sharma	20130504	17	Rajiv Gandhi International Stadium Uppal
Sharma	20130505	37	Sawai Mansingh Stadium
Sharma	20130505	19	Wankhede Stadium
Sharma	20130508	108	Rajiv Gandhi International Stadium Uppal
Total		7022	

- **Main Summary**

