INVESTMENT ANALYSIS

A Detailed Project Report

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PROJECT DETAILS

|	
Project Title	Investment Analysis
Technology	Business Intelligence
Domain	Finance
Project Difficulty level	Intermediate
Programming Language Used	Python
Tools Used	Jupyter Notebook, MS-Excel, Tableau

Objective :

The goal of this project is to find the equilibrium investment from the given dataset.

Problem Statement

◈ Investment is a game of understanding historic data of investment objects under different events but it is still a game of chances to minimize the risk we apply analytics to find the equilibrium investment.

◈ To understand the Foreign direct investment in India for the last 17 years from 2000-01 to 2016-17. This dataset contains sector and financial year-wise data of FDI in India

◈ Sector-wise investment analysis

◈ Year-wise investment analysis

◈ Find key metrics and factors and show the meaningful relationships between attributes.

Architecture
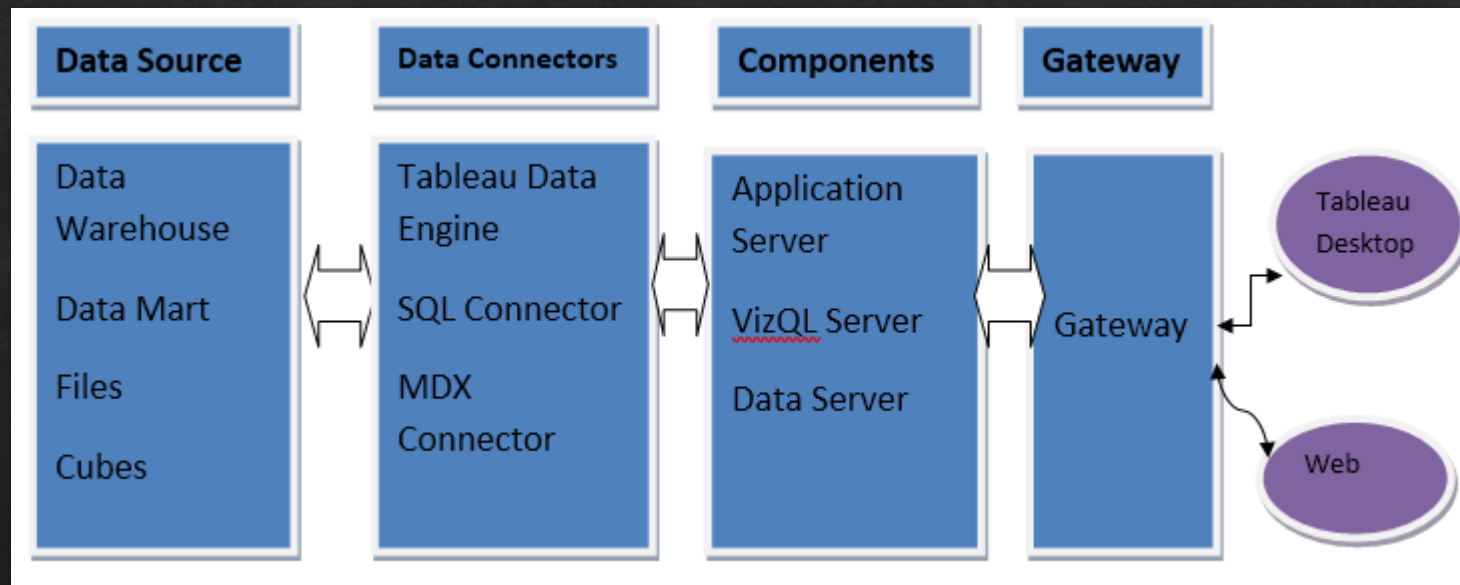
Why parameters are important

◈ **Sector:** In the 1st column, Sector names are mentioned. There are total different 63 sectors, some of them are AGRICULTURAL MACHINERY, AGRICULTURE SERVICES, AUTOMOBILE INDUSTRY, COMPUTER SOFTWARE & HARDWARE etc.

◈ **Year wise –** Except 1st column, There are different 17 columns and in the columns years are mentioned from 2000-01 to 2016-17. In these column, Investment are mentioned.
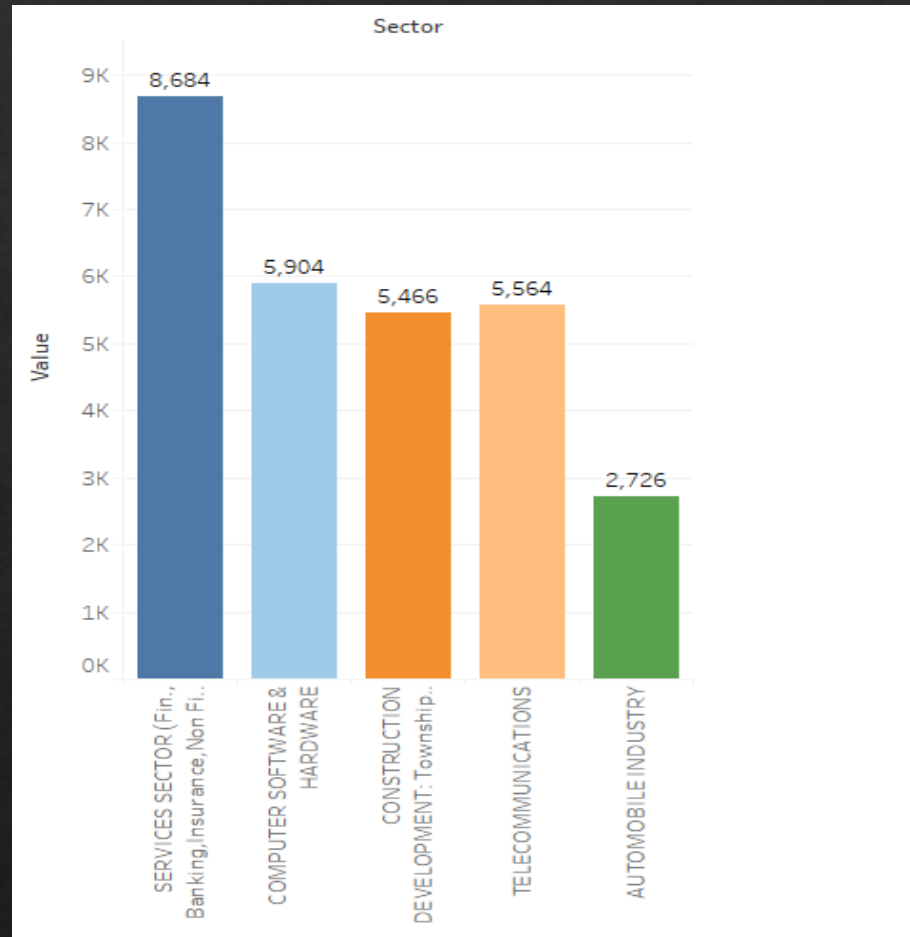
Totals Sectors

Total Sectors - 63

Count of FDI_in_India.csv.
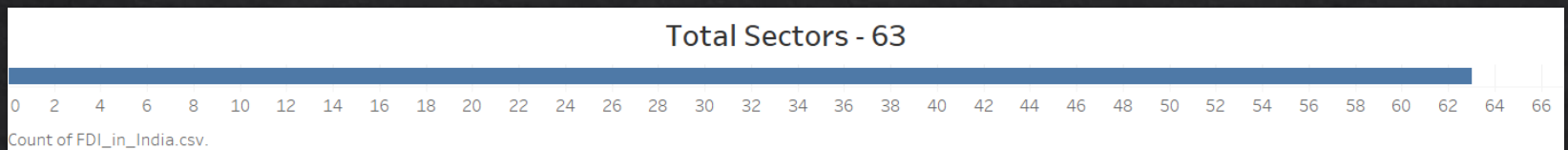
Total Investment Year Wise
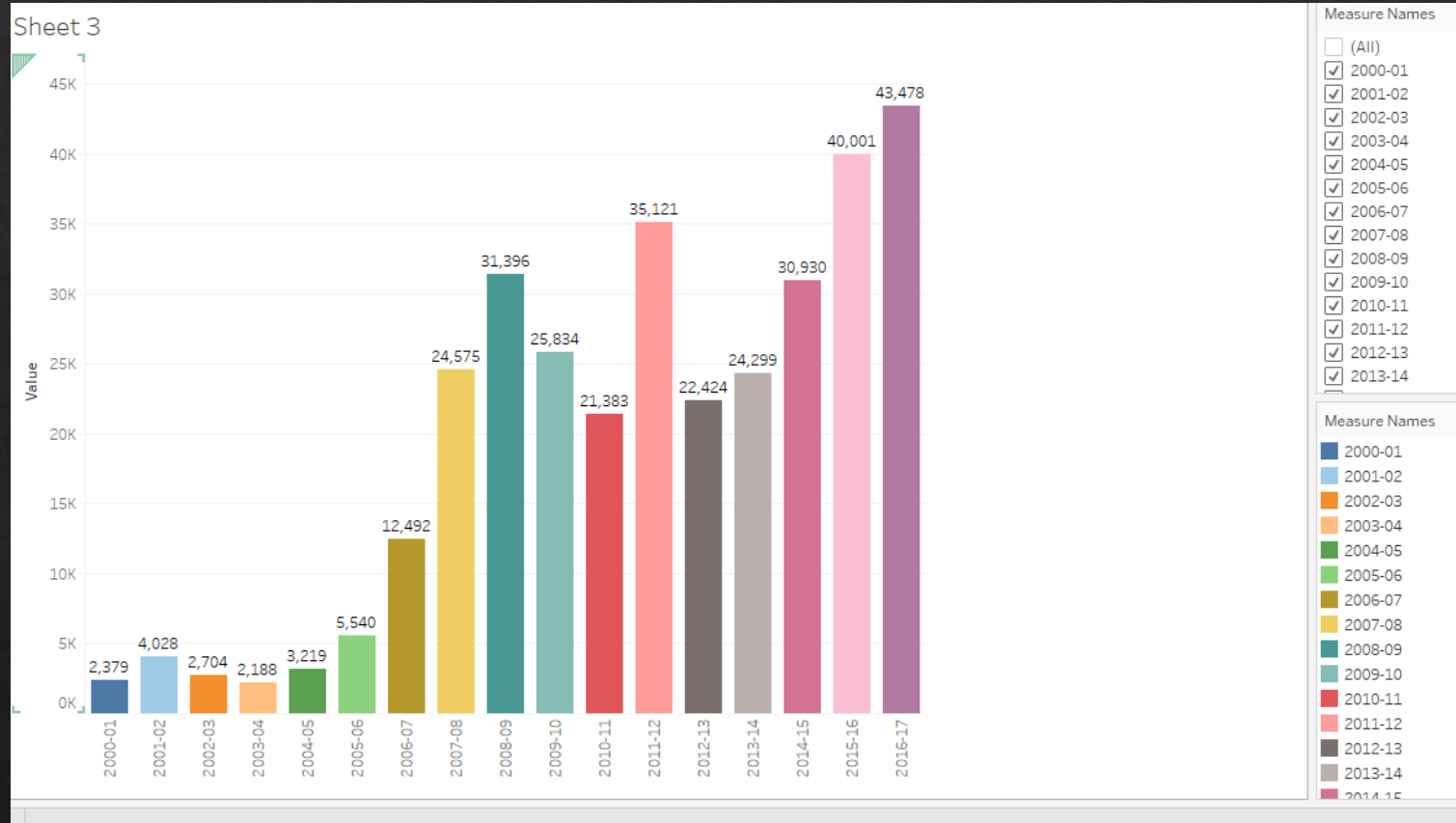
Other Observations

⬥ Maximum investment is done in SERVICES SECTOR in 2016-17 whereas minimum investment is done in COIR.

⬥ It is also observed in 2000-01, There are 23 sectors in which no investment is done which is also maximum of no investment in any year.

⬥ Out of 63 sectors, In 36 sectors average investment is under 100.

⬥ Market Recession in 2008-09 made big losses for the Investors which was covered by 2011-12.

⬥ It is also seen that Service Sector was at the highest in all the Years even when the whole sectors were impacted due to crash .
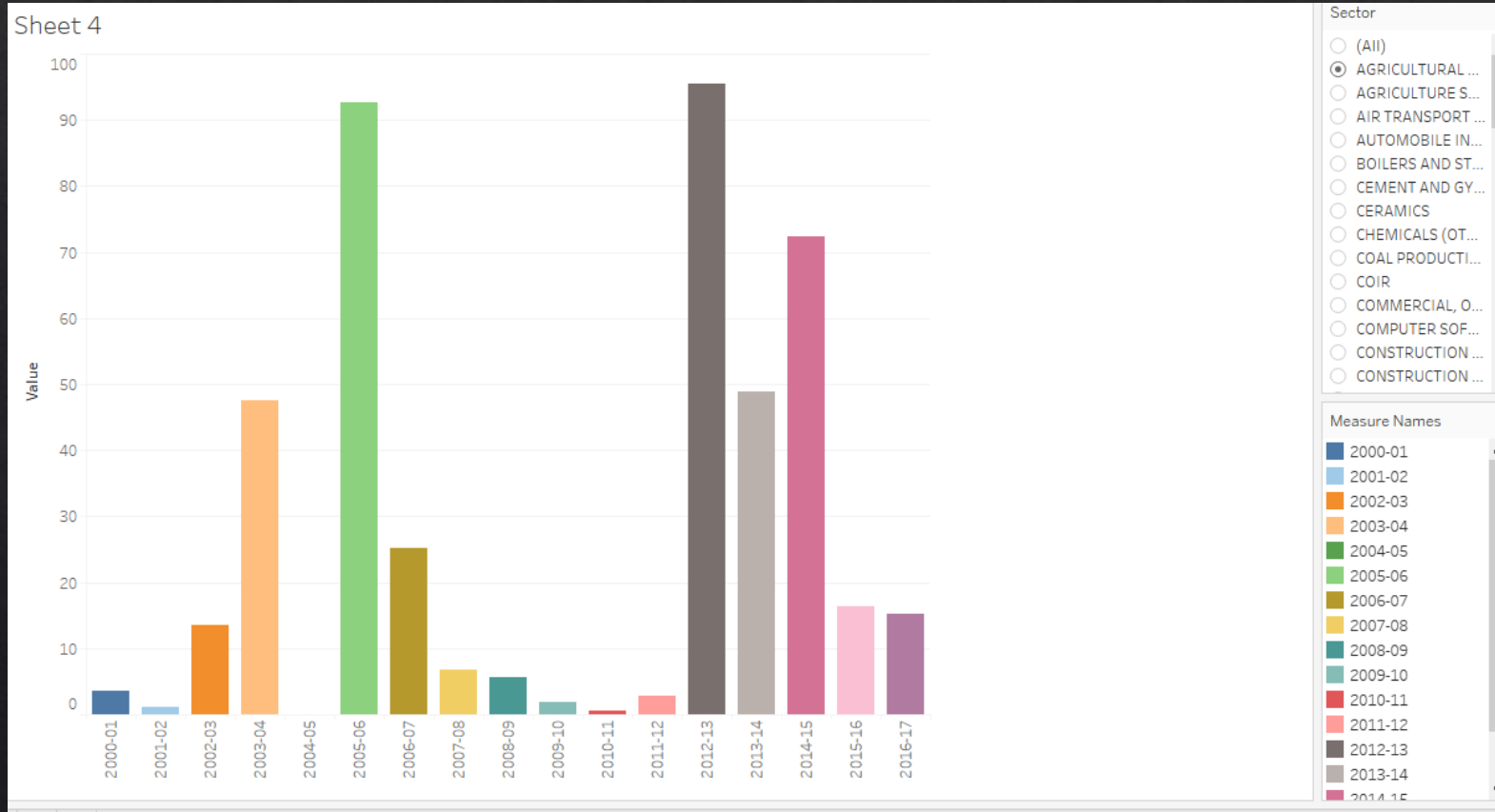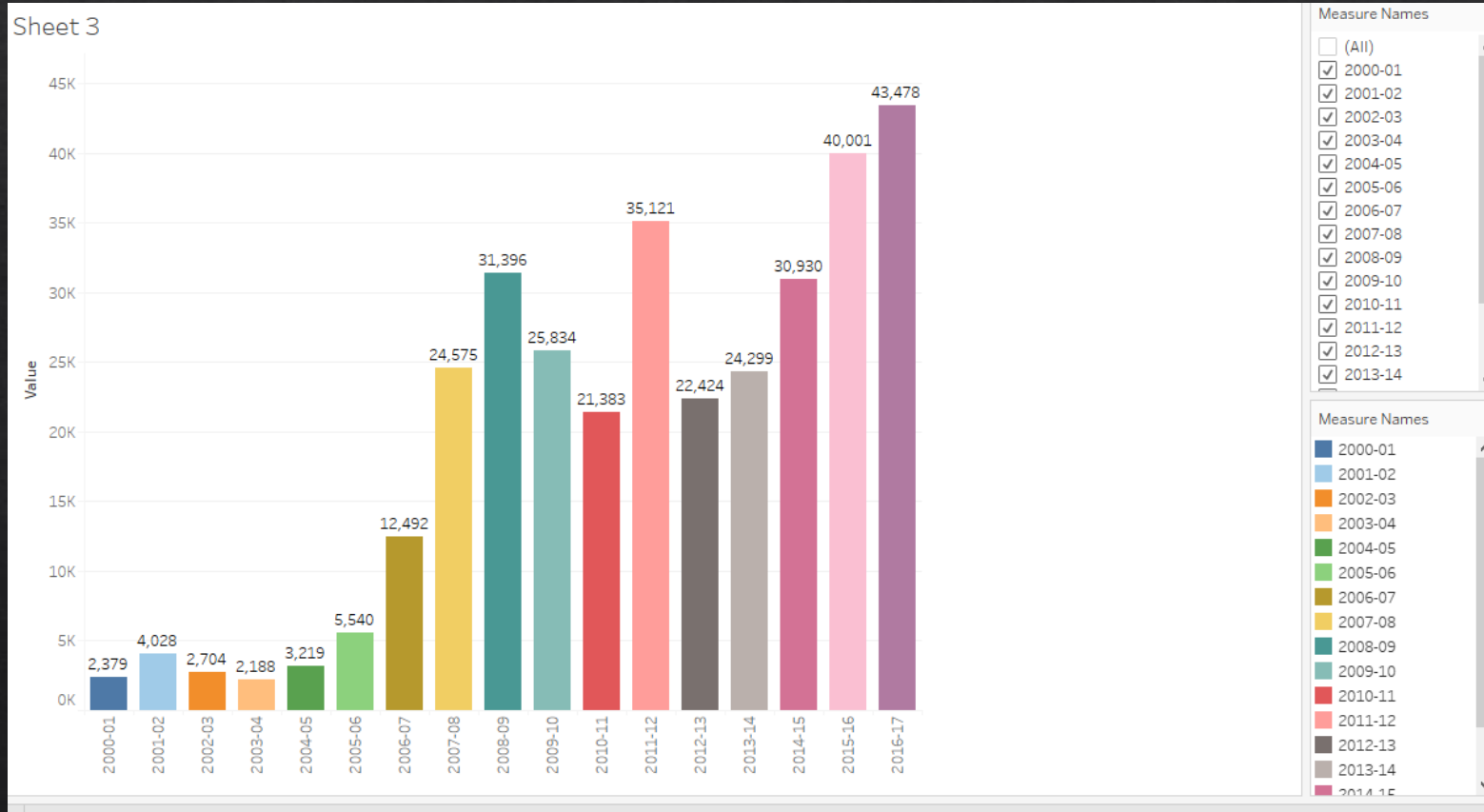
Top 5 Sector Investment Wise
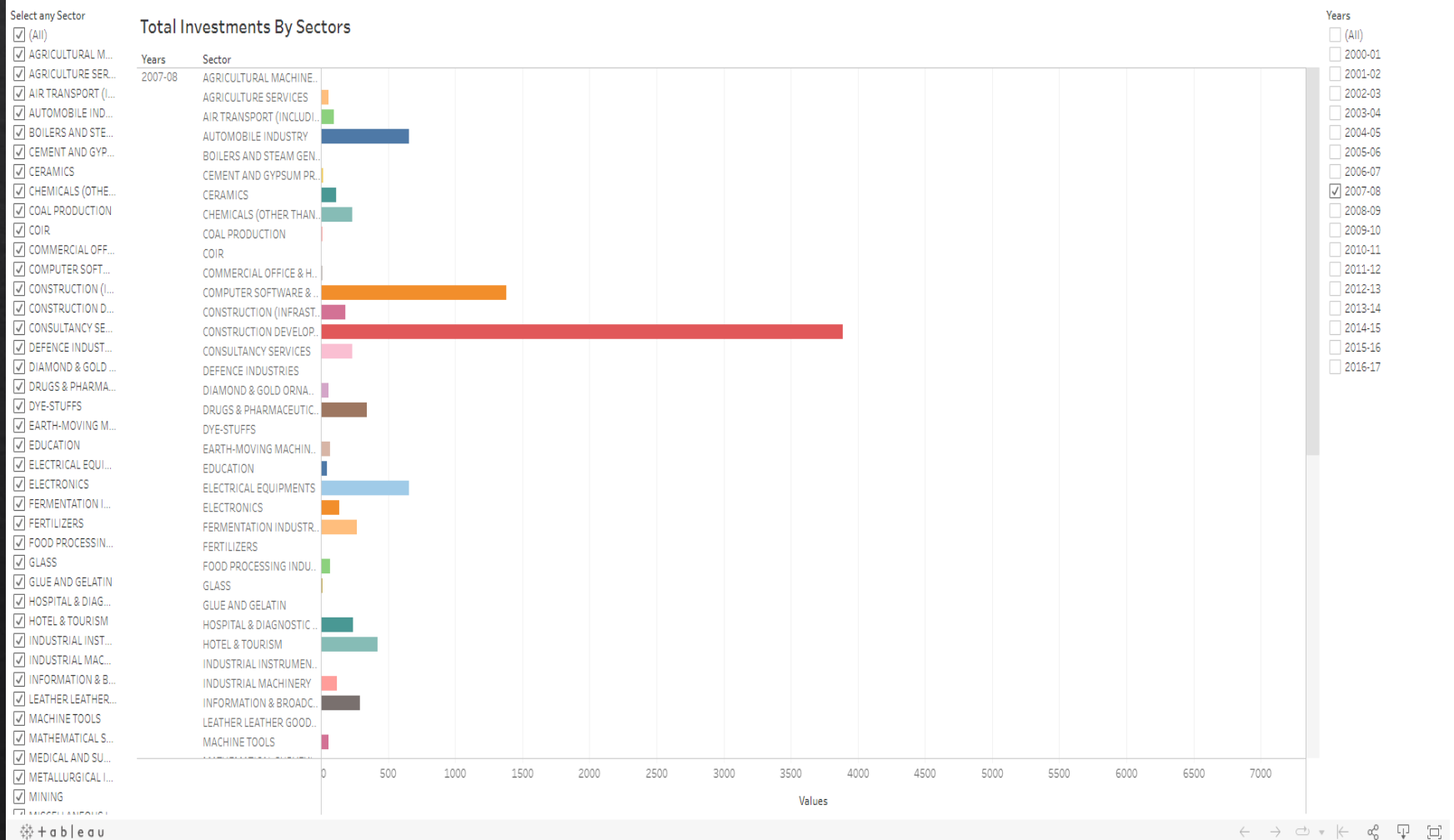
Top 5 Investment in term of years
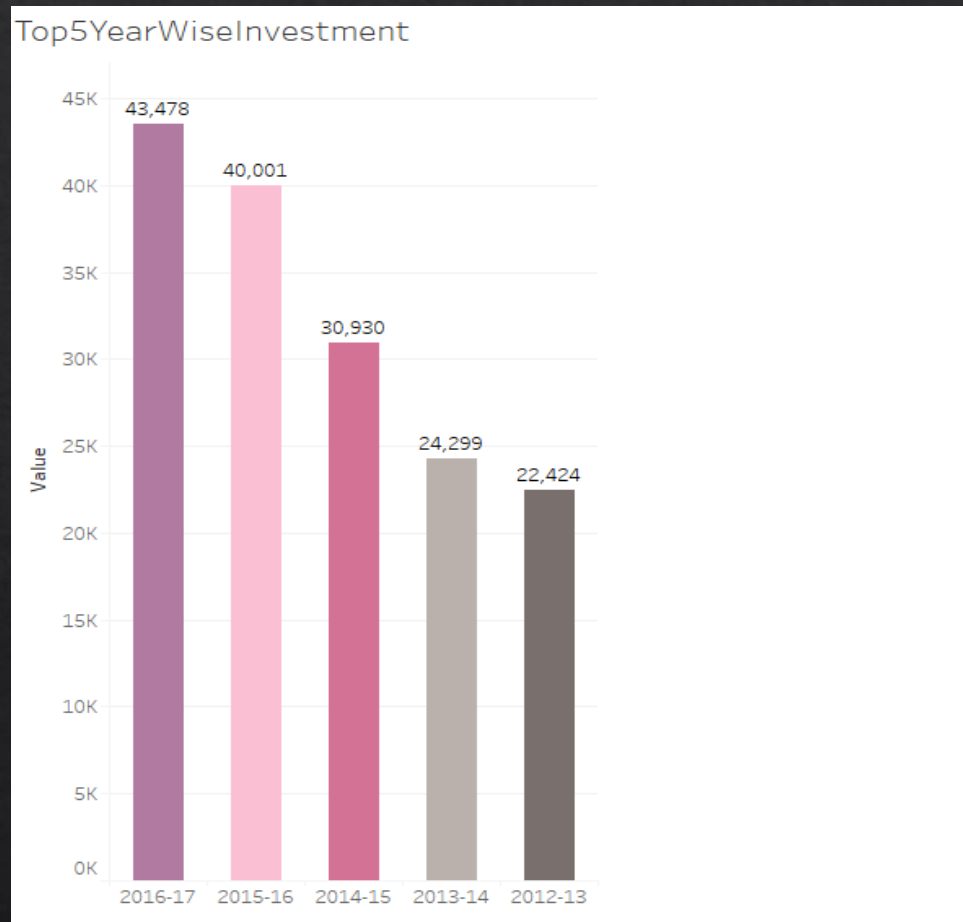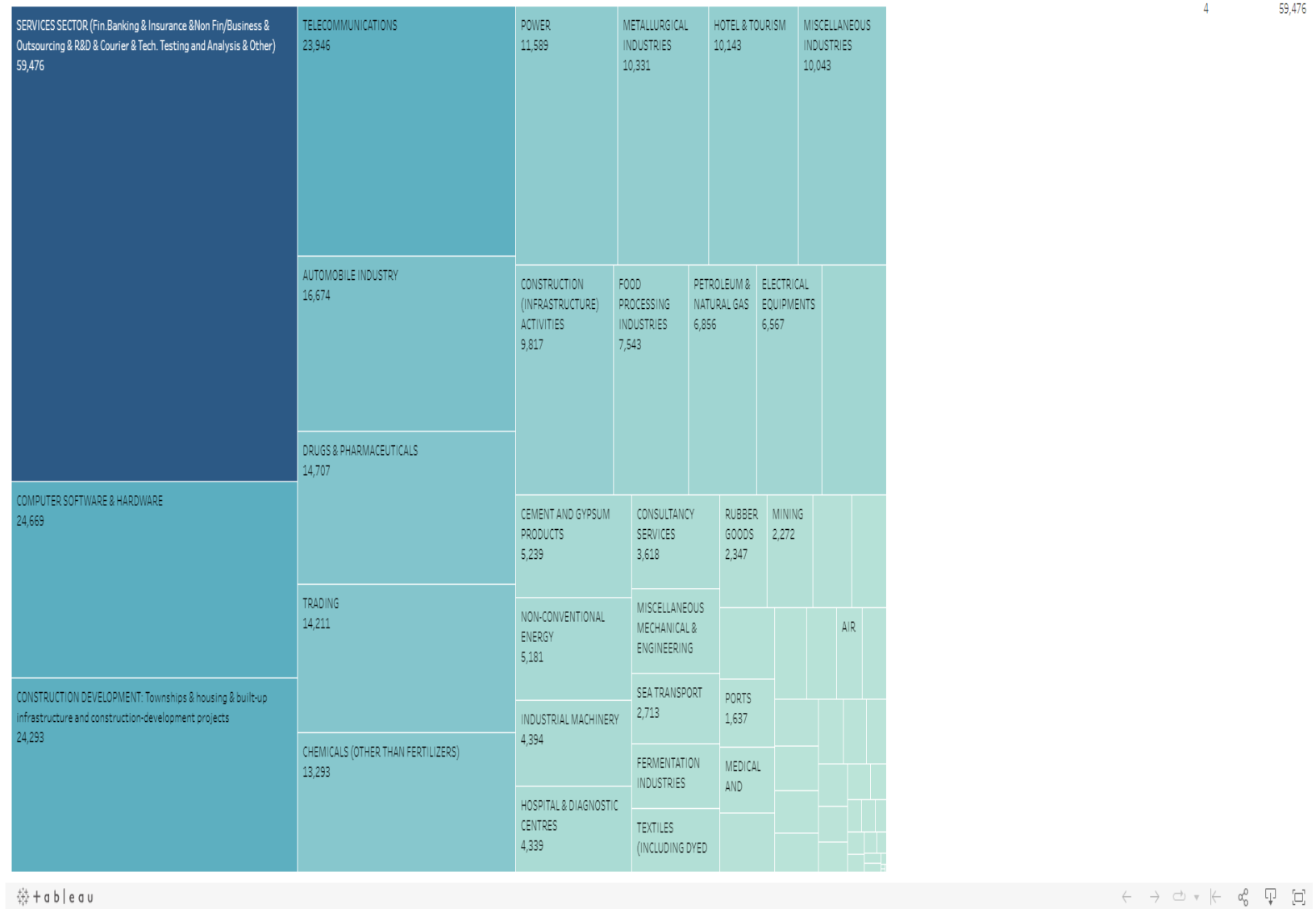
Total Investment In a Sector YearWise

Year Wise Investment

Sector Wise Analysis

Distribution of the Investment Values by Sectors

Values
4 — 59,476

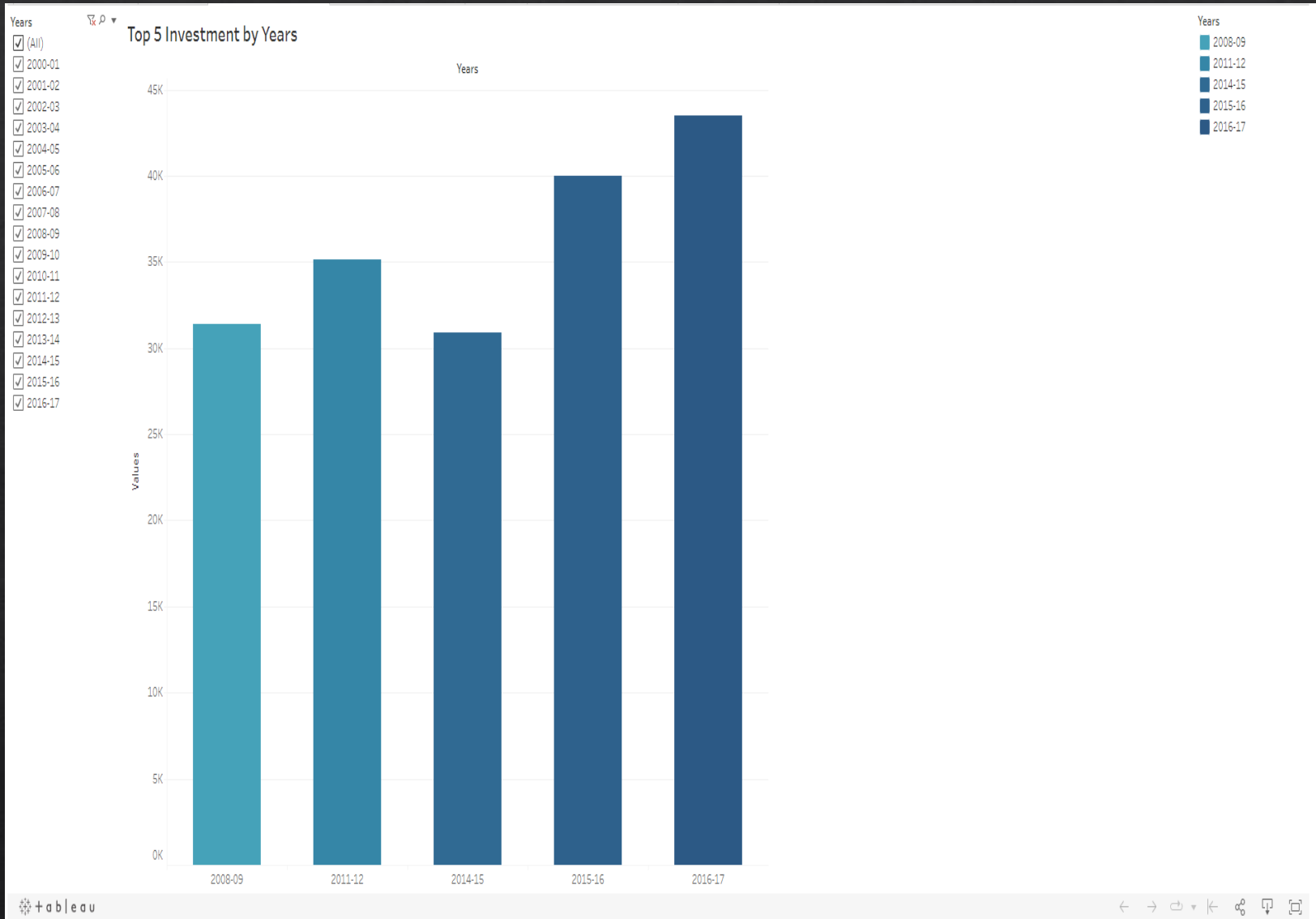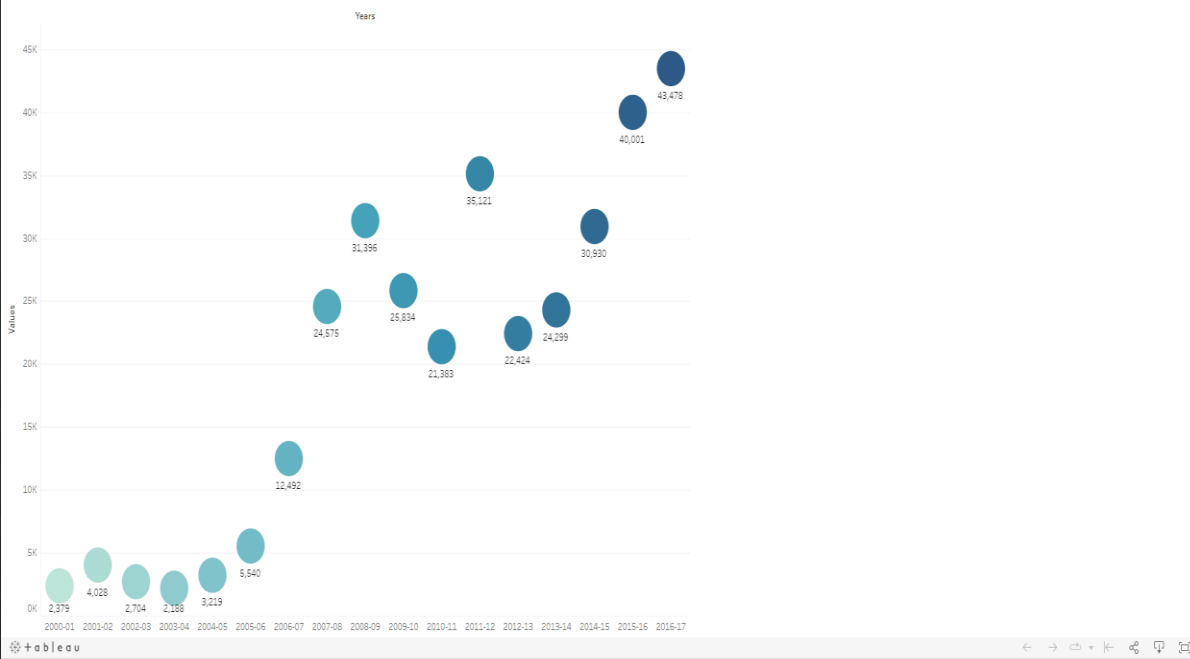| Sector	Value
SERVICES SECTOR (Fin.Banking & Insurance &Non Fin/Business & Outsourcing & R&D & Courier & Tech. Testing and Analysis & Other)	59,476
TELECOMMUNICATIONS	23,946
POWER	11,589
METALLURGICAL INDUSTRIES	10,331
HOTEL & TOURISM	10,143
MISCELLANEOUS INDUSTRIES	10,043
AUTOMOBILE INDUSTRY	16,674
CONSTRUCTION (INFRASTRUCTURE) ACTIVITIES	9,817
FOOD PROCESSING INDUSTRIES	7,543
PETROLEUM & NATURAL GAS	6,856
ELECTRICAL EQUIPMENTS	6,567
DRUGS & PHARMACEUTICALS	14,707
COMPUTER SOFTWARE & HARDWARE	24,669
CEMENT AND GYPSUM PRODUCTS	5,239
CONSULTANCY SERVICES	3,618
RUBBER GOODS	2,347
MINING	2,272
TRADING	14,211
NON-CONVENTIONAL ENERGY	5,181
MISCELLANEOUS MECHANICAL & ENGINEERING	
AIR	
CONSTRUCTION DEVELOPMENT: Townships & housing & built-up infrastructure and construction-development projects	24,293
SEA TRANSPORT	2,713
PORTS	1,637
INDUSTRIAL MACHINERY	4,394
CHEMICALS (OTHER THAN FERTILIZERS)	13,293
FERMENTATION INDUSTRIES	
MEDICAL AND	
HOSPITAL & DIAGNOSTIC CENTRES	4,339
TEXTILES (INCLUDING DYED	

•Distribution of Investments Values by Sectos

Year Wise Investment Analysis

Top 5 Investments by Years

- Scatter Plot by Years & Investment
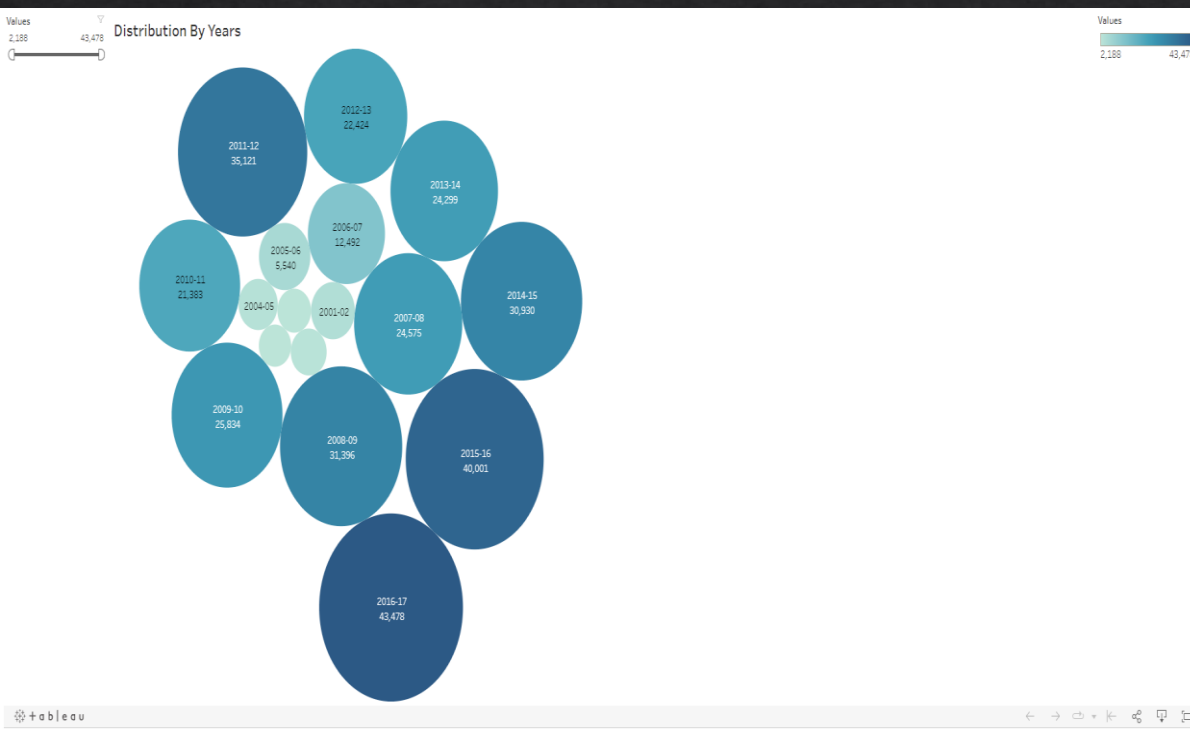
- Bubble chart representing Distribution by Years

THANK YOU