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Project Report on

Ministry Budget

Submitted in partial fulfillment of completion of the course

Advanced Diploma in IT, Networking and Cloud

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Abstract

The title of our project is 'Ministry Budget'. This data analysis project is a comprehensive examination of a government ministry's budget, with a specific focus on understanding its allocation and expenditure patterns. Our goal is to leverage data analytics, statistical methods, and visualization tools to gain insights into how financial resources are distributed among various programs, departments, and initiatives within the ministry. By scrutinizing historical budget data and trends, we aim to identify areas for optimization, cost-efficiency improvements, and alignment with the ministry's strategic priorities. This project not only seeks to enhance transparency and accountability in the budgeting process but also to contribute to informed decision-making by providing actionable recommendations for the ministry's resource allocation, ultimately leading to improved public service delivery.

Acknowledgement

We would like to express our sincere gratitude to several individuals and IBM organization for supporting us throughout our diploma study. First, we wish to express our sincere gratitude to our Edunet mentor, Mrs. Mala Mishra Mam & Miss. Ankita Shukla Mam, for her enthusiasm, patience, insightful comments, helpful information, practical advice and unceasing ideas that have helped us tremendously at all times in our study and writing of this project report.

In addition, we are deeply indebted to the Ministry of Skill Development & Entrepreneurship and IBM for granting us the diploma course. Their technical and financial support has enabled us to complete our diploma course studies successfully.

Team Composition and Workload Division

- 1. Renu UI (front-end) & Database (backend)
- 2. Anju Kumari UI (front-end) & Database (backend)

1. Introduction to Problem

Manual Processes: The existing budget management system relies heavily on manual data entry and approval processes, leading to errors, delays, and a significant administrative burden on staff. This manual approach is prone to inconsistencies and is not scalable as the ministry's financial complexity grows.

Lack of Real-time Insights: Decision-makers within the ministry lack access to real-time financial insights, hindering their ability to respond promptly to budgetary changes, emerging priorities, or financial discrepancies. This lack of agility can impede the ministry's ability to adapt to dynamic circumstances.

Limited Transparency: The absence of a transparent budgetary framework makes it challenging for stakeholders, both internal and external, to understand the allocation of funds and track expenditure. This lack of transparency can erode trust and accountability, essential components of effective financial management.

Inefficient Resource Allocation: Without robust forecasting models and data-driven insights, the ministry faces challenges in optimizing resource allocation. This inefficiency may result in misaligned budget priorities, hindering the ministry's ability to achieve its strategic objectives.

Compliance and Security Concerns: The current system may not fully align with regulatory standards, posing compliance risks. Additionally, the security of financial data may be compromised due to the absence of comprehensive security measures, potentially leading to unauthorized access and data breaches.

2. Proposed Solution

1. Automated Processes:

Solution: Implement a modern budget management system that automates key processes such as data entry, approval workflows, and fund allocation. Utilize technologies such as artificial intelligence and machine learning to reduce manual intervention, minimizing errors and streamlining administrative tasks.

2. Real-time Insights:

Solution: Develop a dashboard within the budget management system that provides real-time financial insights. Utilize data visualization tools to present key performance indicators, budgetary trends, and expenditure patterns. This empowers decision-makers with timely information to respond proactively to budgetary changes and emerging priorities.

3. Transparency Enhancement:

Solution: Introduce features that enhance transparency, such as a publicly accessible budget portal. This portal should provide detailed information on budget allocations, expenditures, and financial performance. Implement user-friendly interfaces and plain-language summaries to make financial information accessible to a wide audience.

4. Optimized Resource Allocation:

Solution: Incorporate advanced forecasting models and analytics tools within the budget management system. These tools can leverage historical data and financial trends to assist decision-makers in making informed predictions about resource needs. This ensures that budget priorities align with the ministry's strategic objectives.

5. Compliance and Security Measures:

Solution: Conduct a comprehensive review of regulatory requirements and integrate compliance features into the budget management system. Implement robust security measures, including encryption protocols, access controls, and regular security audits, to safeguard financial data and mitigate the risk of unauthorized access or data breaches.

3. Requirements

Technology Stack

Full stack development

Full stack development refers to the development of both front end (client side) and back end (server side) portions of web application. We have used Jupiter Notebook (with python & pandas library Kaggle as the database.

Hardware

- Desktop/Laptop
- Minimum 4GB RAM
- Processor 64-bit
- Hard Drive 250GB
- Internet Connection

Software

Jupiter Notebook

Jupiter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text. It is widely used in data science, machine learning, scientific research, and education. The name "Jupiter" is a combination of three core programming languages it supports: Julia, Python, and R.

Front End

HTML: Hyper Text Markup Language (HTML) is a markup language for creating a webpage. Webpages are usually viewed in a web browser. They can include writing, links, pictures, and even sound and video. HTML is used to mark and describe each of these kinds of content so the web browser can display them correctly.

CSS: CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.

4. User Requirements

- Electronic Device: Mobile, Laptop, Desktop or Tablet
- Email Account
- Access to Internet

5. Implementation Details

1. Importing libraries

A library is a collection of functions that can be added to your Python code and called as necessary, just like any other function.

2. Loading dataset

Data loading is the process of copying and loading data or data sets from a source file, folder or application to a database or similar application. It is usually implemented by copying digital data from a source and pasting or loading the data to a data storage or processing utility.

3. Viewing and understanding the Data

Data understanding is the knowledge that you have about the data, the needs that the data will satisfy, its content and location. To be clear, it is much more than current location and a definition of what a data element means in situ within an application or data base.

4. Data Visualization

Data visualization is the representation of data through use of common graphics, such as charts, plots, info graphics, and even animations. These visual displays of information communicate complex data relationships and data-driven insights in a way that is easy to understand.

5. Exploratory Data Analysis

Exploratory data analysis is one of the first steps in the data analytics process. In this post, we explore what EDA is, why it's important, and a few techniques worth familiarizing yourself with.

6. Future Scope

The future scope of a website or project focused on "Ministry Budget" depends on various factors, including technological advancements, changing organizational needs, and evolving governmental practices. Here are some potential aspects that could shape the future scope of a Ministry Budget website:

Real-time Budget Adjustments: The future could bring real-time budget adjustment capabilities, allowing ministries to adapt quickly to changing circumstances. This could involve automated triggers based on predefined criteria or the integration of scenario modeling tools to assess the impact of potentialchangesonthebudget.

Blockchain for Transparency and Security: The adoption of blockchain technology may enhance the transparency and security of financial transactions within ministries. Implementing blockchain in budget management can provide an immutable ledger, reducing the risk of fraud and ensuring a transparent and auditable budgetary process.

Adoption of Cloud-Based Solutions: Cloud computing offers scalability, flexibility, and accessibility. The future scope may involve the adoption of cloud-based solutions for the Ministry Budget website, enabling seamless collaboration, data storage, and processing across different departments and locations.

Cyber security Measures: With the increasing importance of cyber security, future developments may focus on implementing advanced security measures to protect sensitive financial data. This could include multi-factor authentication, encryption protocols, and regular security audits to ensure the integrity of the budget management system.

International Standards and Interoperability: Aligning with international standards for budget management and improving interoperability with other government systems could be a future focus. This would facilitate data exchange and collaboration between ministries and government agencies on a broader scale.

7. Conclusion

The "Ministry Budget" project represents a significant step towards modernizing and optimizing financial management within the ministry. Through the adoption of innovative technologies and best practices in budgetary control, the project aims to position the ministry for long-term financial sustainability and success. As we embark on this journey, collaboration and commitment from all stakeholders will be essential to achieving the project's objectives and realizing the full potential of improved budget management within the ministry.

Appendix A

Project Code

Imp	porting Libraries	
	Import numpy as np	
	Import pandas as pd	
	Import matplotlib.pyplot as plt	
	%matplotlib inline	
	Import seaborn as sns	
	Import plotly.express as px	
Viev	wing and Understanding the Data	
	data1 = pd.read_csv("dataset.csv")	
	data1	
	# show top 5 rows	
i	data1.head ()	
	# show lost 5 records	
	data1.tail ()	
	# general information	
	data1.info ()	
	# give the number of rows and columns	
!	data1.shape	
	# extract all columns in to list of the dataset	
	list (data1.columns)	
		_
	# displaye single column type	
	type(data1['Ac_21-22_Capital'])	

data1.describe ()

Preprocessing the dataset

```
10. # checking for the missing values dataset data1.isnull ()

11. # check for null value data1.isnull ().sum()

12. # Check for duplicate values data1.duplicated ().sum()
```

Data Visualization

```
13. df_filtered_univar_1 = data1.loc[:, 'Sl.No.':'Bu_Es_23-24_Total']
df_filtered_univar_1 = df_filtered_univar_1.select_dtypes([np.int, np. Float])
for i, col in enumerate(df filtered univar 1.columns):
  plt. Figure(i)
  sns. Boxplot(x=col, data=df_filtered_univar_1)
  plt. Title("Box Plot of " + col)
14. df filtered univar 1=data1.loc[:,'Sl.No.':'Bu Es 23-24 Total']
df filtered univar 1=df filtered univar 1.select dtypes([np.int, np.float])
for i, col in enumerate(df filtered univar 1.columns):
  plt.figure(i)
  sns.histplot(x=col, data=df_filtered_univar_1,kde=True).set_title("Plot Distribution "+col)
15. df filtered Bivar=data1.loc[:,'Sl.No.':'Bu Es 23-24 Total']
df_filtered_Bivar=df_filtered_Bivar.select_dtypes([np.int, np.float])
for i, feature in enumerate(df filtered Bivar.columns[1:]):
  plt.figure(i)
  g = sns.histplot(x=df_filtered_Bivar['Sl.No.'], y=feature, data=df_filtered_Bivar).set_title(feature + " vs
SI.No.")
16. # Count plot distribution of "Bu_Es_23-24_Total" where 0 for loan repaid and 1 for client defaulted
on loan
plt.figure(figsize=(20,15))
sns.countplot(x="Bu_Es_23-24_Total", data=data1, palette="Spectral")
plt. Title("Plot Distribution of Sl.No.")
plt. Show()
```

Coorelation Matrix

18. #ploting the heatmap for correlation
plt.figure(figsize=(18,10))
Corr_data1=data1.corr()
correlation_heatMap = sns.heatmap(Corr_data1, annot=True)

Exploratory Data Analysis

19. # distplot for Bu_Es_23-24_Total plt.style.use('fivethirtyeight') plt.figure(figsize=(13, 7)) sns.distplot(data1['Bu_Es_23-24_Total'], bins=25)

Appendix B

Screenshot of Project

Loading Dataset

	Category	SI.No.	Ministry/Department	Scheme	Actuals_21- 22_Revenue\n	Ac_21- 22_Capital	Ac_21- 22_Total	Budget_Estimates_22- 23_Revenue		Bu_Es_22- 23_Total	Revised_Es_22- 23_Revenue
0	Demand No. 1	1	Department of Agriculture and Farmers Welfare	Crop Insurance Scheme	13549.24	0.0	13549.24	15500.0	0.0	15500.0	12375.76
1	Demand No. 1	2	Department of Agriculture and Farmers Welfare	Interest Subsidy for Short Term Credit to Farmers	21476.93	0.0	21476.93	0.0	0.0	0.0	0.00
2	Demand No. 1	3	Department of Agriculture and Farmers Welfare	Modified Interest Subvention Scheme (MISS)	0.00	0.0	0.00	19500.0	0.0	19500.0	22000.00
3	Demand No. 1	4	Department of Agriculture and Farmers Welfare	Market Intervention Scheme and Price Support S	2288.33	0.0	2288.33	1500.0	0.0	1500.0	1500.00
4	Demand No. 1	5	Department of Agriculture and Farmers Welfare	Pradhan Mantri Annadata Aay Sanrakshan Yojna (0.00	0.0	0.00	1.0	0.0	1.0	0.00
			•••	***	***		***		***	***	
717	Demand No. 102	718	Ministry of Youth Affairs and Sports	Scheme of Human Resource Development in Sports	0.00	0.0	0.00	0.0	0.0	0.0	0.00
718	Demand No. 102	719	Ministry of Youth Affairs and Sports	National Centre of Sports Science & Research	0.00	0.0	0.00	0.0	0.0	0.0	0.00

• Viewing and understanding the Data Show all head data

		Category	SI.No.	Ministry/Department	Scheme	22_Revenue\n	AC_Z1- 22_Capital		23_Revenue	23_Capital	23_Total	23_Revenue	
	0	Demand No. 1	1	Department of Agriculture and Farmers Welfare	Crop Insurance Scheme	13549.24	0.0	13549.24	15500.0	0.0	15500.0	12375.76	
	1	Demand No. 1	2	Department of Agriculture and Farmers Welfare	Interest Subsidy for Short Term Credit to Farmers	21476.93	0.0	21476.93	0.0	0.0	0.0	0.00	
	2	Demand No. 1	3	Department of Agriculture and Farmers Welfare	Modified Interest Subvention Scheme (MISS)	0.00	0.0	0.00	19500.0	0.0	19500.0	22000.00	
	3	Demand No. 1	4	Department of Agriculture and Farmers Welfare	Market Intervention Scheme and Price Support S	2288.33	0.0	2288.33	1500.0	0.0	1500.0	1500.00	
	4	Demand No. 1	5	Department of Agriculture and Farmers Welfare	Pradhan Mantri Annadata Aay Sanrakshan Yojna (0.00	0.0	0.00	1.0	0.0	1.0	0.00	
4													F

Show all tail data

```
# show lost 5 records
data1.tail()
```

	Category	SI.No.	Ministry/Department	Scheme	Actuals_21- 22_Revenue\n	Ac_21- 22_Capital	Ac_21- 22_Total	Budget_Estimates_22- 23_Revenue			Revised_Es_22- 23_Revenue 2
717	Demand No. 102	718	Ministry of Youth Affairs and Sports	Scheme of Human Resource Development in Sports	0.00	0.0	0.00	0.0	0.0	0.0	0.0
718	Demand No. 102	719	Ministry of Youth Affairs and Sports	National Centre of Sports Science & Research	0.00	0.0	0.00	0.0	0.0	0.0	0.0
719	Demand No. 102	720	Ministry of Youth Affairs and Sports	Khelo India	764.28	0.0	764.28	974.0	0.0	974.0	600.0
720	Demand No. 102	721	Ministry of Youth Affairs and Sports	Enhancement of Sports Facility at J& K	15.00	0.0	15.00	50.0	0.0	50.0	5.0
721	Demand No. 102	722	Ministry of Youth Affairs and Sports	Commonwealth Games	59.67	0.0	59.67	30.0	0.0	30.0	1.0
4											+

Show general information

```
# general information
data1.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 722 entries, 0 to 721
Data columns (total 16 columns):
                                   Non-Null Count Dtype
# Column
--- -----
                                   -----
   Category
                                   722 non-null
                                                  object
    S1.No.
                                   722 non-null
                                                  int64
                                   722 non-null
2 Ministry/Department
                                                  object
                                   722 non-null
3
    Scheme
                                                  object
   Actuals_21-22_Revenue
4
         722 non-null
                       float64
5
   Ac_21-22_Capital
                                   722 non-null
                                                 float64
   Ac_21-22_Total
                                   722 non-null
                                                 float64
6
7
   Budget_Estimates_22-23_Revenue 626 non-null
                                               float64
8 Bu_Es_22-23_Capital
                                   721 non-null
                                                float64
9 Bu_Es_22-23_Total
                                   721 non-null
                                                float64
10 Revised_Es_22-23_Revenue
                                  722 non-null
                                               float64
11 Re_Es_22-23_Revenue
                                   722 non-null
                                                float64
12 Re_Es_22-23_Total
                                   722 non-null
                                                  float64
13 Bu_Es_23-24_Revenue
                                   722 non-null
                                                  float64
14 Bu_Es_23-24_Capital
                                   722 non-null
                                                 float64
15 Bu_Es_23-24_Total
                                   722 non-null
                                                  float64
dtypes: float64(12), int64(1), object(3)
memory usage: 90.4+ KB
```

Show shape, columns, types

```
# give the number of rows and columns
data1.shape
(722, 16)
# extract all columns in to list of the dataset
list(data1.columns)
['Category',
 'S1.No.',
 'Ministry/Department',
 'Scheme',
 'Actuals_21-22_Revenue\n',
 'Ac_21-22_Capital',
 'Ac 21-22 Total',
 'Budget Estimates 22-23 Revenue',
 'Bu_Es_22-23_Capital',
 'Bu_Es_22-23_Total',
 'Revised_Es_22-23_Revenue',
 'Re Es 22-23 Revenue',
 'Re_Es_22-23_Total',
 'Bu_Es_23-24_Revenue',
 'Bu_Es_23-24_Capital',
 'Bu_Es_23-24_Total']
# displaye single column type
type(data1['Ac_21-22_Capital'])
pandas.core.series.Series
```

Show describe

75% 541.750000

max 722.000000 208929.000000

125.317500

0.000000

59700.000000

269.387500

208929.000000

```
# calculate the mean, std, min, max and count of every attributes
data1.describe()
                                                                  Budget Estimates 22-
                                                                                            Bu Es 22-
                                                                                                           Bu Es 22- Revised Es 22-
                                                                                                                                           Re Es 22-
                      Actuals 21-
                                          Ac 21-
                                                  Ac 21-22 Total
            SI.No.
                    22 Revenue\n
                                       22 Capital
                                                                           23 Revenue
                                                                                            23 Capital
                                                                                                              23 Total
                                                                                                                          23 Revenue
                                                                                                                                          23 Revenue
 count 722.000000
                      722.000000
                                      722.000000
                                                                            626.000000
                                                                                            721.000000
                                                                                                           721.000000
                                                                                                                           722.000000
                                                                                                                                           722.000000
                                                      722.000000
 mean 361.500000
                      1027.546357
                                      648.284100
                                                     1675.830457
                                                                            994.103530
                                                                                           775.000610
                                                                                                          1638.119626
                                                                                                                          1153.559751
                                                                                                                                           801.743573
                                                                                                                                                         19
   std 208.567735
                      9734.249468
                                                                                         10006.414315
                                                                                                         12293.043869
                                                                                                                                                        141
                                     8870.950264
                                                    13184.323361
                                                                           7620.255919
                                                                                                                         10846.679252
                                                                                                                                          9062.765579
         1.000000
                     -1732.100000 -194425.540000 -194425.540000
                                                                              0.000000 -192087.700000 -192087.700000
                                                                                                                             0.000000
                                                                                                                                      -155539.630000
                                                                                                                                                      -1558
  min
  25%
       181.250000
                         0.000000
                                        0.000000
                                                        0.422500
                                                                              0.000000
                                                                                             0.000000
                                                                                                             0.100000
                                                                                                                             0.000000
                                                                                                                                             0.000000
  50% 361.500000
                        7.545000
                                        0.000000
                                                       40.000000
                                                                             26.000000
                                                                                             0.000000
                                                                                                            50.000000
                                                                                                                             9.780000
                                                                                                                                             0.000000
```

: # checkina for the missina values dataset

198.750000

145919.900000

0.000000

134015.000000

350.000000

145919.900000

124.262500

214696.000000

0.000000

2146

141605.620000

• Preprocessing the dataset

Show null values

	Category	SI.No.	Ministry/Department	Scheme	Actuals_21- 22_Revenue\n	Ac_21- 22_Capital	Ac_21- 22_Total	Budget_Estimates_22- 23_Revenue	Bu_Es_22- 23_Capital	Bu_Es_22- 23_Total	Revised_Es_22- 23_Revenue	Re_E 23_Rev
0	False	False	False	False	False	False	False	False	False	False	False	
1	False	False	False	False	False	False	False	False	False	False	False	
2	False	False	False	False	False	False	False	False	False	False	False	
3	False	False	False	False	False	False	False	False	False	False	False	
4	False	False	False	False	False	False	False	False	False	False	False	
717	False	False	False	False	False	False	False	False	False	False	False	
718	False	False	False	False	False	False	False	False	False	False	False	
719	False	False	False	False	False	False	False	False	False	False	False	
72 0	False	False	False	False	False	False	False	False	False	False	False	
721	False	False	False	False	False	False	False	False	False	False	False	

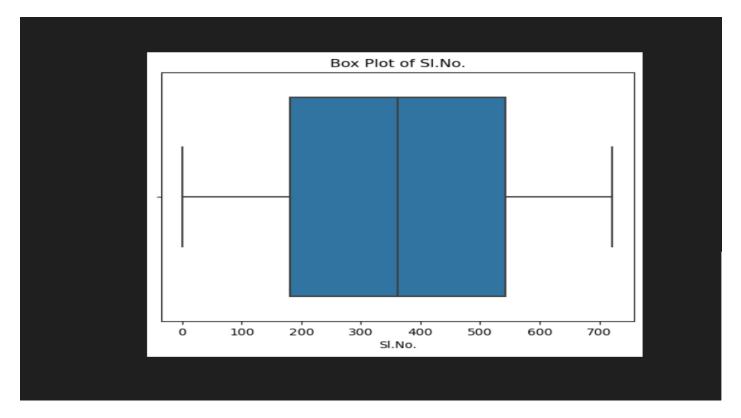
Now check null values

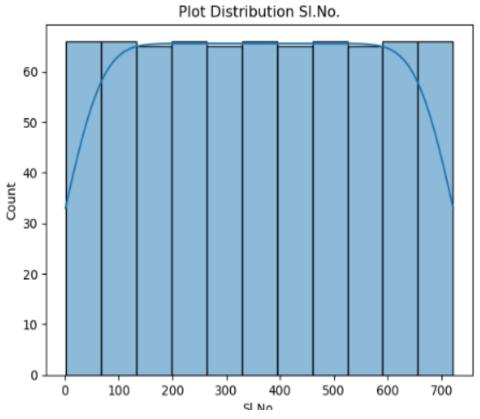
check for null value data1.isnull().sum() Category 0 0 S1.No. Ministry/Department 0 Scheme 0 Actuals_21-22_Revenue\n 0 Ac_21-22_Capital 0 Ac_21-22_Total 0 Budget_Estimates_22-23_Revenue 96 Bu_Es_22-23_Capital 1 Bu_Es_22-23_Total Revised_Es_22-23_Revenue Re_Es_22-23_Revenue 1 0 0 Re_Es_22-23_Total 0 Bu_Es_23-24_Revenue 0 Bu_Es_23-24_Capital 0 Bu_Es_23-24_Total 0 dtype: int64 # Check for duplicate values data1.duplicated().sum()

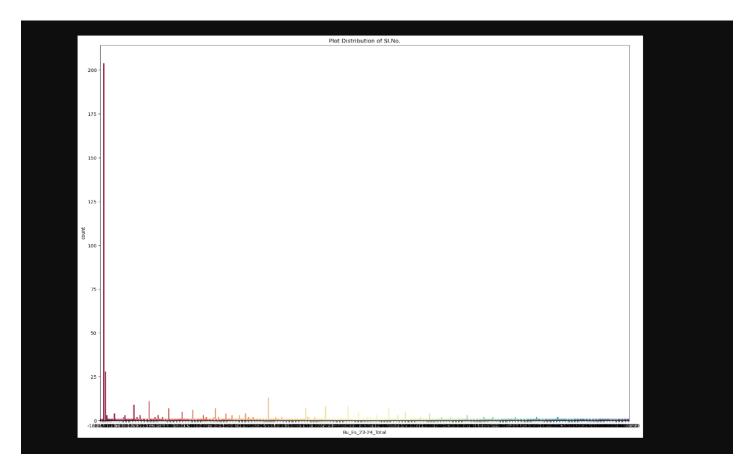
0

Data visualization

Box plot







Correlation

Correlation data1.corr()

C:\Users\Renu\AppData\Local\Temp\ipykernel_3472\3085187504.py:2: FutureWarning: The default value of numeric_only in DataFrame. corr is deprecated. In a future version, it will default to False. Select only valid columns or specify the value of numeric_on ly to silence this warning.

data1.corr()

	SI.No.	Actuals_21- 22_Revenue\n	Ac_21- 22_Capital	Ac_21- 22_Total	Budget_Estimates_22- 23_Revenue	Bu_Es_22- 23_Capital	Bu_Es_22- 23_Total	Revised_Es_22- 23_Revenue	Re_Es_22- 23_Revenue	Re_Es_22- 23_Total
SI.No.	1.000000	-0.095677	0.016268	-0.059694	-0.113175	0.026095	-0.035499	-0.094490	0.037324	-0.048567
Actuals_21- 22_Revenue\n	-0.095677	1.000000	0.002183	0.739789	0.977175	0.001096	0.565885	0.969588	0.001590	0.744883
Ac_21-22_Capital	0.016268	0.002183	1.000000	0.674453	0.029146	0.946336	0.773432	0.001123	0.876527	0.562731
Ac_21-22_Total	-0.059694	0.739789	0.674453	1.000000	0.938667	0.637548	0.938206	0.716622	0.590937	0.928590
Budget_Estimates_22- 23_Revenue	-0.113175	0.977175	0.029146	0.938667	1.000000	0.026653	0.914448	0.956297	0.026648	0.913467
Bu_Es_22-23_Capital	0.026095	0.001096	0.946336	0.637548	0.026653	1.000000	0.815904	-0.000351	0.956231	0.612697
Bu_Es_22-23_Total	-0.035499	0.565885	0.773432	0.938206	0.914448	0.815904	1.000000	0.552676	0.781369	0.924889
Revised_Es_22- 23_Revenue	-0.094490	0.969588	0.001123	0.716622	0.956297	-0.000351	0.552676	1.000000	0.000514	0.767526
Re_Es_22- 23_Revenue	0.037324	0.001590	0.876527	0.590937	0.026648	0.956231	0.781369	0.000514	1.000000	0.641413
Re_Es_22-23_Total	-0.048567	0.744883	0.562731	0.928590	0.913467	0.612697	0.924889	0.767526	0.641413	1.000000
Bu_Es_23- 24_Revenue	-0.098586	0.942535	0.004131	0.698672	0.940684	0.002405	0.545924	0.980534	0.003905	0.754765
Bu_Es_23-24_Capital	0.049623	0.003303	0.877931	0.593146	0.028115	0.944517	0.773305	0.001813	0.985776	0.633291
Bu_Es_23-24_Total	-0.017773	0.555188	0.710435	0.887916	0.805134	0.763129	0.943671	0.576261	0.797274	0.953173

Coorelation Matrix

Heat map

Sl.No	1	-0.096	0.016	-0.06	-0.11	0.026	-0.035	-0.094	0.037	-0.049	-0.099	0.05	-0.018	1.0
Actuals_21-22_Revenue	-0.096	1	0.0022	0.74	0.98	0.0011	0.57	0.97	0.0016	0.74	0.94	0.0033	0.56	
Ac_21-22_Capital -	0.016	0.0022	1	0.67	0.029	0.95	0.77	0.0011	88.0	0.56	0.0041	0.88	0.71	- 0.8
Ac_21-22_Total =	-0.06	0.74	0.67	1	0.94	0.64	0.94	0.72	0.59	0.93	0.7	0.59	0.89	
Budget_Estimates_22-23_Revenue -	-0.11	0.98	0.029	0.94	1	0.027	0.91	0.96	0.027	0.91	0.94	0.028	0.81	- 0.6
Bu_Es_22-23_Capital -	0.026	0.0011	0.95		0.027	1	0.82	-0.00035	0.96	0.61	0.0024	0.94	0.76	
Bu_Es_22-23_Total -	-0.035	0.57	0.77	0.94	0.91	0.82	1	0.55	0.78	0.92	0.55	0.77	0.94	
Revised_Es_22-23_Revenue -	-0.094	0.97	0.0011	0.72	0.96	-0.00035	0.55	1	0.00051	0.77	0.98	0.0018	0.58	- 0.4
Re_Es_22-23_Revenue -	0.037	0.0016	0.88	0.59	0.027	0.96	0.78	0.00051	1		0.0039	0.99	0.8	
Re_Es_22-23_Total -	-0.049	0.74	0.56	0.93	0.91	0.61	0.92	0.77	0.64	1	0.75	0.63	0.95	- 0.2
Bu_Es_23-24_Revenue -	-0.099	0.94	0.0041	0.7	0.94	0.0024	0.55	0.98	0.0039	0.75	1	0.0063	0.59	
Bu_Es_23-24_Capital -	0.05	0.0033	0.88	0.59	0.028	0.94	0.77	0.0018	0.99		0.0063	1	0.81	- 0.0
Bu_Es_23-24_Total -	-0.018	0.56	0.71	0.89	0.81	0.76	0.94	0.58	0.8	0.95	0.59	0.81	1	
	SI.No	Actuals_21-22_Revenue	AC_21-22_Capital -	AC_21-22_Total -	Budget_Estimates_22-23_Revenue -	Bu_Es_22-23_Capital -	Bu_Es_22-23_Total -	Havised_Es_22-23_Revenue -	Re_Es_22-23_Revenue -	Re_Es_22-23_Total -	Bu_Es_23-24_Revenue -	Bu_Es_23-24_Capital -	Bu_Es_23-24_Total -	-

Exploratory Data Analysis

