

Day 72

DIY

Q1. Problem Statement: Data Connections and Charts

Use the given dataset *Quarterly_Estimates_of_GDP.xlsx* and load it into a tableau workbook then solve the given questions using different charts and graphs. The following are the tasks that are to be taken into consideration while constructing the worksheets for given tasks.

1. Load the given dataset into a tableau workbook
2. Change the “quarter end date” column’s the data type to date
3. Make a hierarchy of “year”, “quarter”, and “quarter end date” in the given order, and using a bar chart observe “Public Administration, Defense, and Other Services”
4. Print multilevel bar chart for “manufacturing”, “construction”, “mining & quarrying”, and use highlighted features on “quarter” and “industry/year”
5. Find out in which year mining and quarrying contributed highest to GDP (Do sorting to find the answer visually)
6. Create two groups of the last decade in a 5-year gap on “industry/year” and compare construction activity, (leave 2021-22 out of this because it is not part of the last decade)
7. Use the filter on quarter and select only q1 and q2 data only then plot horizontal bar chart for “Public Administration, Defense, and Other Services” by different color coding
8. Create a set of Q1 as per their end date on the “quarter end date” (select all data from June month) and compare “electricity gas, water supply and other

utility” and visualize using a bar plot, and give color to newly created set

Dataset:

This data is given by RBI’s official website and the data set contains the data of Indian GDP from various decades. We will do all operations on the last decade 2011—21, so select that table only and read the below details carefully.

- In the dataset, many sectors are given and represent their contribution to GDP.
- Q1, Q2, Q3 & Q4 denotes - April to June, July to September, October to December, and January to March quarters, respectively.
- All values are in (Rupees Crore)
- “Total Gross Value Added “is the final sum of all sectors

Quarter end date	Quarter	Industry/ Year	Agriculture, Forestry and Fishing	Mining & Quarrying	Manufacturing	Electricity, Gas, Water Supply & Other Utility	Construction	Trade, Hotels, Transport, Communication and Services Related to	Financial, Real Estate and Professional Services	Public Administration, Defence and Other Services	Total Gross Value Added at Basic Price
30-06-2011	Q1	2011-12	336109	67873	356022	46302	186777	338658	404493	232898	1969132
30-09-2011	Q2	2011-12	269074	56967	333104	46466	190701	340497	410626	265771	1913207
31-12-2011	Q3	2011-12	500966	64849	333674	46623	195724	348957	340343	242760	2073896
31-03-2012	Q4	2011-12	395798	71346	387184	47277	204133	385006	375416	284553	2150712
30-06-2012	Q1	2012-13	341199	70780	358340	48480	189866	374095	442487	249343	2074589
30-09-2012	Q2	2012-13	274362	55618	373953	47290	186137	376921	452821	280806	2047909
31-12-2012	Q3	2012-13	506049	64859	355778	48004	194069	383184	377983	247602	2177528
31-03-2013	Q4	2012-13	402678	71352	398803	47861	209978	416943	406740	291896	2246251
30-06-2013	Q1	2013-14	354450	68134	383076	48464	198716	388794	494883	268723	2206230
30-09-2013	Q2	2013-14	289305	55681	387587	50076	194458	401895	524246	290609	2193897
31-12-2013	Q3	2013-14	539360	64419	377186	49637	198470	417976	409823	258070	2314941
31-03-2014	Q4	2013-14	426023	74892	412860	50423	209127	443407	438455	293393	2348579
30-06-2014	Q1	2014-15	362653	79536	422169	53900	209579	432298	540067	276954	2377154
30-09-2014	Q2	2014-15	299494	57940	423757	54880	204912	432834	592769	312770	2379356
31-12-2014	Q3	2014-15	522894	68663	389833	53221	206558	440658	459478	315706	2457010
31-03-2015	Q4	2014-15	420673	82547	448178	52046	214180	501900	481401	297685	2486612
30-06-2015	Q1	2015-16	371273	87184	466224	55232	218253	475242	594978	291805	2560191
30-09-2015	Q2	2015-16	307806	63469	472855	57848	205790	467655	669973	332828	2578225
31-12-2015	Q3	2015-16	511553	75875	450360	55200	216449	484331	506288	336948	2637004
31-03-2016	Q4	2015-16	425514	91445	514411	55878	224843	565595	523546	315216	2716448
30-06-2016	Q1	2016-17	389610	93382	512045	62529	234541	520053	675149	311418	2798726
30-09-2016	Q2	2016-17	326769	67441	508974	62355	222844	503823	745019	354769	2791994
31-12-2016	Q3	2016-17	549199	82751	487553	60850	232427	522805	532370	367659	2835814