

Task1-Report

Introduction

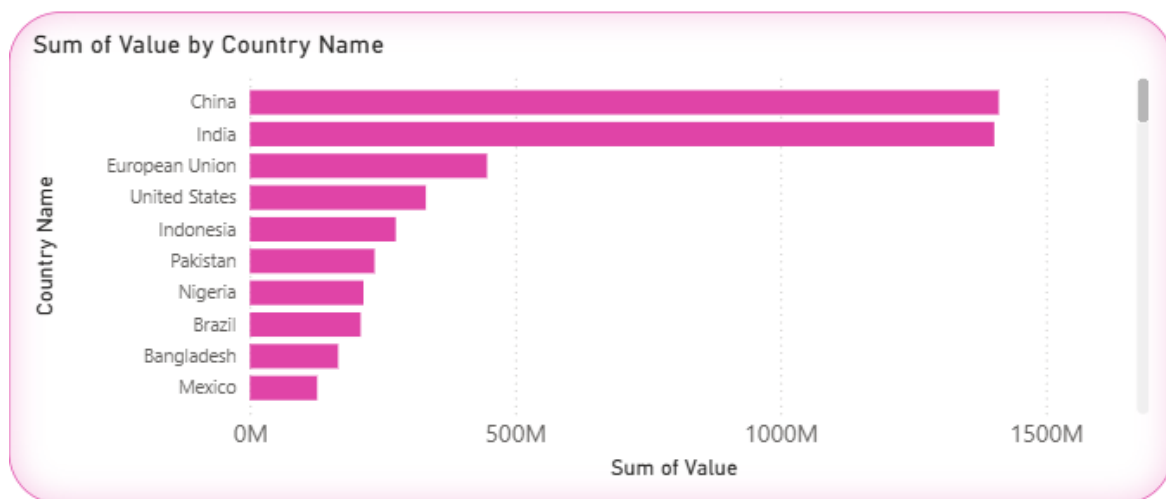
The objective of Task 1 was to create a **Bar Chart** and a **Histogram** using Power BI. The dataset contained country-level information, including population values. The goal was to visualize the top populated countries and the overall population distribution across the world.

Data Cleaning

The dataset contained some non-country entries such as *World*, *OECD members*, *High income* etc. These were removed to focus only on valid countries. After cleaning, the data was ready for visualization in Power BI.

Visualization 1 – Bar Chart

The bar chart shows the **Top 10 Countries by Population (2020)**. This visualization helps compare the most populated countries effectively.



Visualization 2 – Histogram

The histogram displays the **Population Distribution Across Countries**. It shows that population distribution is highly skewed, with a few countries having very large populations and most countries having relatively small populations.



Attribute	Value
1960	2715
1960	4250
1960	4607
1960	5598
1960	5599
1960	7950
1960	8428
1960	8736
1960	9328
1960	9510
1960	14703
1960	15428
1960	16451
1960	20133
1960	21808
1960	21839
1960	32500
1960	34127
1960	36010
1960	41700
1960	42208
1960	43061
1960	47157
1960	48868
1960	54922
1960	55603
1960	55810
1960	59372
1960	64431

Country Name	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Afghanistan	9035043	9214083	9404406	9604487	9814318	10036008	10266395	10505959	10756922	11017409	11290128
Africa Eastern and Southern	130075728	133534923	137171659	140945536	144904094	149033472	153281203	157704381	162329396	167088245	171984985
Africa Western and Central	97630925	99706674	101854756	104089175	106388440	108772632	111246953	113795019	116444636	119203521	122086536
Albania	1608800	1659800	1711319	1762621	1814135	1864791	1914573	1965598	2022272	2081695	2135479
Algeria	11424922	11628883	11800771	11982118	12179813	12365976	12590069	12876118	13172614	13475960	13783719
American Samoa	20133	20666	21298	21966	22673	23406	24136	24863	25614	26375	27026
Andorra	9510	10283	11086	11915	12764	13634	14626	15837	17176	18555	19977
Angola	5231654	5301583	5354310	5408320	5464187	5521981	5581386	5641807	5702699	5763685	5852788
Antigua and Barbuda	55603	56540	57336	58138	59020	59970	60900	61837	62809	63819	64528
Arab World	91540853	93931683	96428599	99038509	101729760	104494008	107403055	110491709	113712171	117053219	120469263
Argentina	20386045	20726276	21072538	21421705	21769453	22112629	22453893	22799059	23150583	23508711	23878327
Armenia	1863705	1927484	1991689	2056023	2120135	2183635	2246159	2307492	2367319	2424030	2475633
Aruba	54922	55578	56320	57002	57619	58190	58694	58990	59069	59052	58950
Australia	10276477	10483000	10742000	10950000	11167000	11388000	11651000	11799000	12009000	12263000	12507000
Austria	7047539	7086299	7129864	7175811	7223801	7270889	7322066	7376998	7415403	7441055	7467086
Azerbaijan	3894500	4045750	4168150	4293550	4439250	4574650	4708150	4832000	4948500	5063300	5172050
Bahamas, The	116317	122197	128493	135087	141528	147952	154874	162267	170089	177981	184982
Bahrain	165477	172346	179349	186501	193816	200866	207543	214189	219337	222469	224809
Bangladesh	51828660	53310348	54881146	56504402	58178374	59902519	61669806	63510929	65408276	67294133	69058894
Barbados	230893	233148	235224	237557	239958	242417	244996	247091	248540	249444	249387
Belarus	8198000	8271216	8351928	8437232	8524224	8610000	8696496	8785648	8874552	8960304	9040000
Belgium	9153489	9183948	9220578	9289770	9378113	9463667	9527807	9580991	9618756	9646032	9655549
Belize	91318	93632	96042	98704	101603	104675	107906	111272	114713	118040	120736
Benin	2517286	2559223	2604659	2652908	2704003	2757936	2814317	2872997	2934257	2998222	3065057
Bermuda	42208	43123	44239	45340	46410	47461	48534	49514	50404	51306	52124
Bhutan	224084	230602	237636	245156	252987	261200	269820	278852	288311	298214	308528
Bolivia	3702323	3778731	3857493	3938913	4022996	4109796	4199550	4292572	4388944	4488232	4590010
Bosnia and Herzegovina	3281381	3348035	3407532	3461942	3513441	3562834	3610562	3656223	3698794	3737765	3773247
Botswana	516165	527942	540186	552966	566266	574664	577866	580933	583966	587066	590334
Total	2715	2970	3264	3584	3922	4282	4664	5071	5500	5631	5663

Insights & Conclusion

- The bar chart highlights that a small number of countries dominate global population numbers.
- The histogram confirms the skewness in population distribution.
- Power BI provides an effective way to visualize such patterns clearly and interactively.

Tools Used

- Power BI Desktop (for visualization)
- Excel/CSV (for dataset cleaning)