

• Data Collection & Extraction From Database

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, and evaluate outcomes and generate insights from the data.

Collect The Dataset

Please seeing this pictures which we created the manual of data se in the given below :

The screenshot shows the SQL Server Enterprise Manager interface with the 'Import Flat File' wizard open. The 'Preview Data' tab is selected, displaying a table of data for Afghanistan from 1975 to 1994. The table has the following columns: country, year, co2, co2_growth, co2_per_capit, cumulative_co2, and coal. The data is as follows:

country	year	co2	co2_growth	co2_per_capit	cumulative_co2	coal
Afghanistan	1975	2.121	10.88	0.167	21.287	0.399
Afghanistan	1976	1.981	-6.62	0.153	23.267	0.425
Afghanistan	1977	2.384	20.36	0.181	25.652	0.45
Afghanistan	1978	2.153	-9.68	0.161	27.805	0.574
Afghanistan	1979	2.233	3.69	0.166	30.038	0.35
Afghanistan	1980	1.756	-21.34	0.132	31.794	0.314
Afghanistan	1981	1.978	12.65	0.15	33.772	0.33
Afghanistan	1982	2.095	5.87	0.163	35.867	0.38
Afghanistan	1983	2.52	20.31	0.201	38.387	0.38
Afghanistan	1984	2.822	11.97	0.231	41.209	0.39
Afghanistan	1985	3.501	24.1	0.293	44.71	0.4
Afghanistan	1986	3.134	-10.5	0.267	47.844	0.42
Afghanistan	1987	3.114	-0.63	0.268	50.957	0.44
Afghanistan	1988	2.857	-8.25	0.246	53.814	0.364
Afghanistan	1989	2.765	-3.22	0.233	56.579	0.33
Afghanistan	1990	2.603	-5.85	0.21	59.182	0.27
Afghanistan	1991	2.427	-6.76	0.182	61.61	0.24
Afghanistan	1992	1.379	-43.17	0.095	62.989	0.02
Afghanistan	1993	1.333	-3.36	0.084	64.322	0.011
Afghanistan	1994	1.282	-3.86	0.075	65.604	0.01

country	year	co2	co2_growth_pct	co2_per_capita	cumulative_co2	coal_co2	cement_co2	flaring_co2	gas_co2	oil_co2	other_industry_co2	cement_co2_per_capita	coal_co2_per_capita	flaring_co2_per_capita	gas_co2_per_capita	oil_co2_per_capita
Afghanistan	1975	2.121	10.88	0.167	21.287	0.399	0.069	0.304	0.476	0.874	0	0.006	0.031	0.024	0.038	0
Afghanistan	1976	1.991	-6.62	0.153	23.267	0.425	0.079	0.293	0.3	0.883	0	0.006	0.033	0.023	0.023	0
Afghanistan	1977	2.384	20.36	0.161	25.652	0.451	0.086	0.381	0.513	0.575	0	0.005	0.034	0.029	0.039	0
Afghanistan	1978	2.153	-9.68	0.161	27.803	0.576	0.068	0.263	0.301	0.938	0	0.004	0.043	0.021	0.023	0
Afghanistan	1979	2.232	3.69	0.166	30.035	0.352	0.094	0.267	0.305	1.165	0	0.005	0.026	0.02	0.029	0
Afghanistan	1980	1.756	-21.34	0.132	31.794	0.316	0.023	0.305	0.107	0.925	0	0.002	0.034	0.023	0.014	0
Afghanistan	1981	1.978	12.65	0.15	33.772	0.333	0.033	0.293	0.304	1.015	0	0.002	0.025	0.022	0.023	0
Afghanistan	1982	2.095	5.87	0.163	35.967	0.395	0.039	0.282	0.396	0.993	0	0.003	0.03	0.022	0.031	0
Afghanistan	1983	2.52	20.31	0.201	38.367	0.385	0.006	0.293	0.616	1.22	0	0	0.031	0.023	0.048	0
Afghanistan	1984	2.822	11.97	0.251	41.209	0.393	0.046	0.116	0.832	1.134	0	0.004	0.032	0.026	0.076	0
Afghanistan	1985	3.501	24.1	0.293	44.71	0.4	0.032	0.33	1.192	1.548	0	0.003	0.034	0.028	0.1	0
Afghanistan	1986	3.134	-10.5	0.267	47.844	0.425	0.038	0.33	1.202	1.14	0	0.003	0.036	0.028	0.102	0
Afghanistan	1987	3.114	-0.83	0.268	50.957	0.443	0.043	0.223	0.392	2.013	0	0.004	0.038	0.019	0.034	0
Afghanistan	1988	2.897	-8.29	0.246	53.814	0.396	0.043	0.187	0.44	1.821	0	0.004	0.032	0.016	0.038	0
Afghanistan	1989	2.765	-3.22	0.233	56.579	0.337	0.043	0.04	0.48	1.665	0	0.004	0.028	0.003	0.04	0
Afghanistan	1990	2.803	6.85	0.21	59.182	0.278	0.046	0.026	0.403	1.85	0	0.004	0.022	0.002	0.032	0
Afghanistan	1991	2.427	-6.76	0.182	61.61	0.249	0.046	0.026	0.388	1.718	0	0.003	0.019	0.002	0.029	0
Afghanistan	1992	1.379	-43.17	0.095	62.969	0.022	0.046	0.022	0.363	0.627	0	0.003	0.002	0.002	0.025	0
Afghanistan	1993	1.333	-3.38	0.064	64.322	0.018	0.047	0.022	0.352	0.894	0	0.003	0.001	0.001	0.022	0
Afghanistan	1994	1.282	-3.88	0.075	65.604	0.015	0.047	0.022	0.338	0.85	0	0.003	0.001	0.001	0.02	0
Afghanistan	1995	1.23	-3.99	0.060	66.834	0.015	0.047	0.022	0.322	0.824	0	0.003	0.001	0.001	0.018	0
Afghanistan	1996	1.185	-5.33	0.062	67.969	0.007	0.047	0.022	0.308	0.78	0	0.002	0	0.001	0.016	0
Afghanistan	1997	1.084	-8.94	0.066	69.083	0.004	0.047	0.022	0.283	0.728	0	0.002	0	0.001	0.015	0
Afghanistan	1998	1.029	-5.07	0.052	70.113	0.004	0.047	0.022	0.265	0.691	0	0.002	0	0.001	0.013	0
Afghanistan	1999	0.81	-21.34	0.04	70.922	0.004	0.047	0.022	0.242	0.485	0	0.002	0	0.001	0.012	0
Afghanistan	2000	0.758	-6.4	0.038	71.68	0.004	0.01	0.022	0.224	0.468	0	0	0	0.001	0.011	0
Afghanistan	2001	0.798	5.32	0.037	72.478	0.007	0.007	0.022	0.209	0.481	0	0	0.003	0.001	0.01	0

Understand The Data

Dataset consists CO2 emissions in metric ton per capita of every country around the world. The data is collected from 1975 to 2020. In this dataset Countries and regions are included. Data is initially pre-processed using excel.

The dataset contains

- Country- Country for which Co2 is Recorded
- Year- Year the data was recorded
- Co2 Emission (In Million Metric Tons)
- Co2 Growth per Capita
- Co2 Per Capita
- Cumulative Co2
- Several Fossil Fuels rate of Emission

Storing Data In DB & Connect DB With Tableau

We created the manual of DB and connect with tableau has given below link :

Tableau - Co2 Story - Tableau license expires in 12 days

File Data Server Window Help

Connections [Add](#)

localhost\SQLEXPRESS01
Microsoft SQL Server

Database
GCEA_db

Table
Co2

[New Custom SQL](#)
[New Union](#)
[New Table Extension](#)

Co2

Need more data?
Drag tables here to relate them. [Learn more](#)

Co2 20 fields 10918 rows

100 rows

Country	Year	Co2 (Co2)	Co2 Growth Prct	Co2 Per Capita	Cumulative Co2	Coal Co2
Afghanistan	1975	2.12	10.88	0.167	21.29	0.399
Afghanistan	1976	1.98	-6.62	0.153	23.27	0.425
Afghanistan	1977	2.38	20.36	0.181	25.65	0.451
Afghanistan	1978	2.15	-9.68	0.161	27.81	0.576
Afghanistan	1979	2.23	3.69	0.166	30.04	0.352
Afghanistan	1980	1.76	-21.34	0.132	31.79	0.316
Afghanistan	1981	1.98	12.65	0.15	33.77	0.333
Afghanistan	1982	2.10	5.87	0.163	35.87	0.385
Afghanistan	1983	2.52	20.31	0.201	38.39	0.385
Afghanistan	1984	2.82	11.97	0.231	41.21	0.393
Afghanistan	1985	3.50	24.1	0.293	44.71	0.4

Data Source: Afghanistan vs United States, Total Emission by Continents, Co2 Emission Per Capita, Co2 Emission of International Fa..., Emission Rate over Year, Donut Chart for Coal Co2

Dashboard 2, Dashboard 3, Dashboard 4

PREM KUMA

SQLQuery1.sql - not connected - Microsoft SQL Server Management Studio

File Edit View Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Connect - [New](#) [Refresh](#) [Disconnect](#) [Attach](#)

localhost\SQLEXPRESS01 (SQL Server 16)

Databases

System Databases

Database Snapshots

GCEA_db

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.Co2

Columns

Keys

Constraints

Triggers

Indexes

Statistics

Views

External Resources

Synonyms

Programmability

Query Store

Service Broker

Storage

Security

Server Objects

Replication

Management

Event Profiler

SQLQuery1.sql - not connected

```
select * from Co2;
```

Results Messages

country	year	co2	co2_growth_pct	co2_per_capita	cumulative_co2	coal_co2	cement_co2	flaring_co2	gas_co2	oil_co2	other_industry_co2	cement_co2_per_capita	coal_co2_per_capita	flaring_co2_per_capita	gas_co2_per_capita	oil_co2_per_capita
Afghanistan	1975	2.121	10.88	0.167	21.287	0.399	0.069	0.304	0.478	0.874	0	0.006	0.031	0.024	0.038	0
Afghanistan	1976	1.981	-6.62	0.153	23.267	0.425	0.079	0.293	0.3	0.653	0	0.006	0.033	0.023	0.023	0
Afghanistan	1977	2.384	20.36	0.181	25.652	0.451	0.088	0.381	0.513	0.575	0	0.005	0.034	0.029	0.036	0
Afghanistan	1978	2.152	-9.68	0.161	27.805	0.576	0.058	0.283	0.301	0.656	0	0.004	0.043	0.021	0.025	0
Afghanistan	1979	2.233	3.69	0.166	30.035	0.352	0.094	0.287	0.335	1.189	0	0.005	0.026	0.02	0.029	0
Afghanistan	1980	1.756	-21.34	0.132	31.794	0.316	0.023	0.305	0.187	0.625	0	0.002	0.024	0.023	0.014	0
Afghanistan	1981	1.978	12.65	0.15	33.772	0.333	0.033	0.293	0.304	1.015	0	0.002	0.025	0.022	0.023	0
Afghanistan	1982	2.095	5.87	0.163	35.867	0.385	0.039	0.282	0.296	0.993	0	0.003	0.03	0.022	0.031	0
Afghanistan	1983	2.52	20.31	0.201	38.387	0.385	0.066	0.293	0.616	1.22	0	0.003	0.031	0.023	0.040	0
Afghanistan	1984	2.822	11.97	0.231	41.208	0.393	0.048	0.316	0.632	1.134	0	0.004	0.032	0.026	0.076	0
Afghanistan	1985	3.501	24.1	0.293	44.71	0.4	0.032	0.33	1.192	1.548	0	0.003	0.034	0.028	0.1	0
Afghanistan	1986	3.134	-10.5	0.267	47.844	0.425	0.038	0.33	1.202	1.14	0	0.003	0.036	0.028	0.102	0
Afghanistan	1987	3.114	-0.83	0.268	50.957	0.443	0.043	0.223	0.392	2.013	0	0.004	0.038	0.019	0.034	0
Afghanistan	1988	2.937	-5.29	0.246	53.814	0.396	0.043	0.187	0.44	1.621	0	0.004	0.032	0.016	0.038	0
Afghanistan	1989	2.785	-5.23	0.223	56.579	0.377	0.043	0.14	0.43	1.865	0	0.004	0.026	0.013	0.04	0
Afghanistan	1990	2.603	-6.55	0.21	59.182	0.278	0.046	0.026	0.403	1.85	0	0.004	0.022	0.012	0.032	0
Afghanistan	1991	2.427	-6.76	0.182	61.61	0.249	0.046	0.026	0.388	1.718	0	0.003	0.019	0.012	0.029	0
Afghanistan	1992	1.379	-43.17	0.065	62.989	0.022	0.046	0.022	0.383	0.627	0	0.003	0.002	0.002	0.025	0
Afghanistan	1993	1.335	-3.38	0.064	64.322	0.018	0.047	0.022	0.352	0.694	0	0.003	0.001	0.001	0.022	0
Afghanistan	1994	1.282	-3.95	0.075	65.604	0.015	0.047	0.022	0.338	0.66	0	0.003	0.001	0.001	0.02	0
Afghanistan	1995	1.23	-3.99	0.068	66.834	0.015	0.047	0.022	0.322	0.624	0	0.003	0.001	0.001	0.018	0
Afghanistan	1996	1.185	-5.33	0.062	67.969	0.007	0.047	0.022	0.308	0.78	0	0.002	0	0.001	0.016	0
Afghanistan	1997	1.084	-8.94	0.056	69.083	0.004	0.047	0.022	0.283	0.728	0	0.002	0	0.001	0.015	0
Afghanistan	1998	1.029	-5.07	0.052	70.113	0.004	0.047	0.022	0.265	0.681	0	0.002	0	0.001	0.013	0
Afghanistan	1999	0.81	-21.34	0.04	70.922	0.004	0.047	0.022	0.242	0.495	0	0.002	0	0.001	0.012	0
Afghanistan	2000	0.758	-6.4	0.038	71.66	0.004	0.01	0.022	0.224	0.498	0	0	0	0.001	0.011	0
Afghanistan	2001	0.798	5.32	0.037	72.478	0.07	0.007	0.022	0.209	0.481	0	0.003	0.001	0.001	0.01	0

Disconnected.

Ready