**Star Schema for Climate Finance Data**

To analyze financial flows, risks, and institutional responses related to climate change. It consists of one **fact table** and several **dimension tables**.

**1. Fact Table: Climate\_Finance\_Fact**

This table contains quantitative data related to climate finance flows, risks, and institutional responses.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| ID | INT (PK) | Unique identifier for each record |
| CTS\_ID | VARCHAR (FK) | Foreign key to the CTS\_Dimension |
| Counterpart\_Country\_ID | VARCHAR (FK) | Foreign key to the Counterpart\_Country\_Dimension |
| Indicator\_ID | VARCHAR (FK) | Foreign key to the Indicator\_Dimension |
| Country\_ID | VARCHAR (FK) | Foreign key to the Country\_Dimension |
| Unit\_ID | VARCHAR (FK) | Foreign key to the Unit\_Dimension |
| Counterpart\_Country\_Trade\_ID | VARCHAR (FK) | Foreign key to the Counterpart\_Country\_Trade\_Dimension |
| Indicator | VARCHAR | Indicator name |
| Principal Currency | VARCHAR | Principal currency (Green Bonds) (optional) |
| Scale | VARCHAR | Scale (Bilateral Data) (optional) |
| Source | VARCHAR | Source (Bilateral Data) (optional) |
| Type of Issuer | VARCHAR | Type of Issuer (Green Bonds) (optional) |
| Use of Proceed | VARCHAR | Use of proceed (Green Bonds) (optional) |
| 1985 | DECIMAL | YEAR |
| 1986 | DECIMAL | YEAR |
| 1987 | DECIMAL | YEAR |
| 1990 | DECIMAL | YEAR |
| 1991 | DECIMAL | YEAR |
| 1992 | DECIMAL | YEAR |
| 1993 | DECIMAL | YEAR |
| 1994 | DECIMAL | YEAR |
| 1995 | DECIMAL | YEAR |
| 1996 | DECIMAL | YEAR |
| 1997 | DECIMAL | YEAR |
| 1998 | DECIMAL | YEAR |
| 1999 | DECIMAL | YEAR |
| 2000 | DECIMAL | YEAR |
| 2001 | DECIMAL | YEAR |
| 2002 | DECIMAL | YEAR |
| 2003 | DECIMAL | YEAR |
| 2004 | DECIMAL | YEAR |
| 2005 | DECIMAL | YEAR |
| 2006 | DECIMAL | YEAR |
| 2007 | DECIMAL | YEAR |
| 2008 | DECIMAL | YEAR |
| 2009 | DECIMAL | YEAR |
| 2010 | DECIMAL | YEAR |
| 2011 | DECIMAL | YEAR |
| 2012 | DECIMAL | YEAR |
| 2013 | DECIMAL | YEAR |
| 2014 | DECIMAL | YEAR |
| 2015 | DECIMAL | YEAR |
| 2016 | DECIMAL | YEAR |
| 2017 | DECIMAL | YEAR |
| 2018 | DECIMAL | YEAR |
| 2019 | DECIMAL | YEAR |
| 2020 | DECIMAL | YEAR |
| 2021 | DECIMAL | YEAR |
| 2022 | DECIMAL | YEAR |
| 2023 | DECIMAL | YEAR |
| 2024 | DECIMAL | YEAR |
| 2025 | DECIMAL | YEAR |
| 2026 | DECIMAL | YEAR |
| 2027 | DECIMAL | YEAR |
| 2028 | DECIMAL | YEAR |
| 2029 | DECIMAL | YEAR |
| 2030 | DECIMAL | YEAR |

**2. Dimension Table: CTS\_Dimension**

Provides the indicators for climate financial data.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| CTS\_ID | INT (PK) | Unique identifier for the date |
| CTS Code | VARCHAR | Climate Transition Standard (CTS) code |
| CTS Name | VARCHAR | Climate Transition Standard (CTS) name |
| CTS Full Descriptor | VARCHAR | Climate Transition Standard (CTS) description |

**3. Dimension Table: Country\_Dimension**

Contains geographical data for analyzing finance flows and risks by region.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Country\_ID | INT (PK) | Unique identifier for each country |
| Country | VARCHAR | Full name of the country |
| ISO2 | VARCHAR | International organisation for standardisation Format: Two-letter codes |
| ISO3 | VARCHAR | International organisation for standardisation Format: Two-letter codes |

**4. Dimension Table: Indicator\_Dimension**

Contains metadata about the financial and risk indicators used in the fact table.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Category | VARCHAR | Category identifier for each indicator |
| Indicator\_ID | VARCHAR | Unique identifier for each indicator |
| Indicator\_Group | VARCHAR | Group identifier for each indicator |
| Indicator | VARCHAR | Indicator Name |
| Description | VARCHAR | Indicator description |
| Country\_Coverage | VARCHAR | Countries covered |
| Time\_Coverage | VARCHAR | Time range |
| Download\_Data\_URL | VARCHAR | URL from where its downloaded |
| View\_Metadata\_URL | VARCHAR | Metadata of URL |
| API\_Explorer\_URL | VARCHAR | API URL |
| Last\_Update\_Date | VARCHAR | Last updated date |
| Disclaimer | VARCHAR | Disclaimer |
| Copyright\_and\_Usage | VARCHAR | Copyrights and usage |
| ObjectId | INT (PK) | Unique identifier for each indicator |

**5. Dimension Table: Unit\_Dimension**

Provides details on the unit used for financial finance

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Unit\_ID | INT (PK) | Unique identifier for each unit |
| Unit | VARCHAR | Dollars, ratio etc |

**6. Dimension Table: Counterpart\_Country\_Dimension**

Contains Counterpart country geographical data for analyzing finance flows and trades.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Counterpart\_Country\_ID | VARCHAR (PK) | Unique identifier for each unit |
| Counterpart Country | VARCHAR | Full name of the country |
| Counterpart ISO2 | VARCHAR | International organisation for standardisation Format: Two-letter codes |
| Counterpart ISO3 | VARCHAR | International organisation for standardisation Format: Two-letter codes |

**7. Dimension Table: Counterpart\_Country\_Trade\_Dimension**

Contains Counterpart country trade data for analyzing finance flows and trades.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Counterpart\_Country\_Trade\_ID | VARCHAR (PK) | Unique identifier for each unit |
| Trade Flow | VARCHAR | Trade type |