

# 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)
Year	DECIMAL	YEARS from 1985-2030
Year_value	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 Description	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
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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