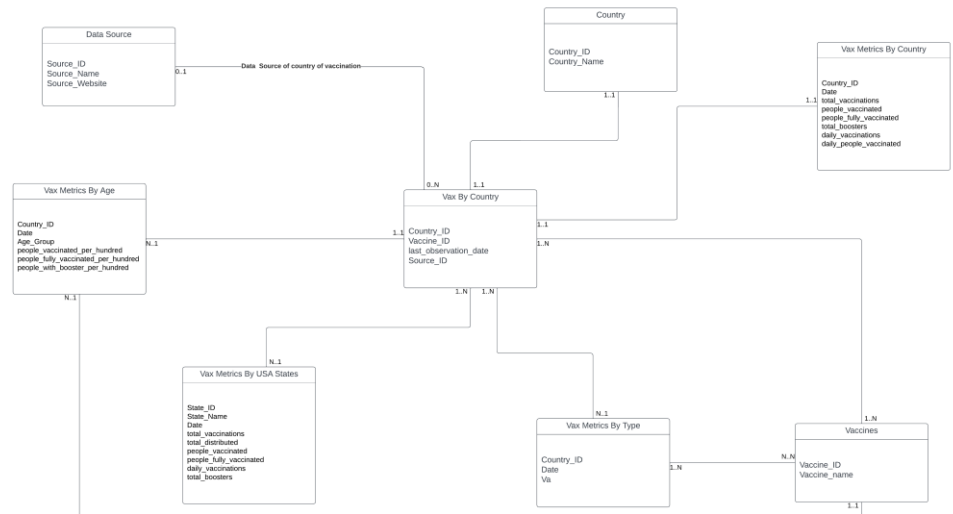


ER Diagram:



Schema:

- **Country** (Country_ID*, Country_Name)
- **Vaccines** (Vaccine_ID*, Vaccine_Name)
- **Data_Source** (Source_ID*, Source_Name, Source_Website)
- **Vax_By_Country** (Country_ID*, Vaccine_ID*, Source_ID*, last_observation_date, total_vaccinations, people_vaccinated, people_fully_vaccinated, daily_vaccinations, daily_people_vaccinated, total_boosters)
- **Vax_Metrics_By_Country** (Country_ID*, Date*, Vaccine_ID*, people_vaccinated_per_hundred, people_fully_vaccinated_per_hundred, total_distributed, people_with_booster_per_hundred)
- **Vax_Metrics_By_Type** (Vaccine_ID*, Age_Group, Total_Vaccinations, people_vaccinated, people_fully_vaccinated, total_boosters)
- **Vax_Metrics_By_Age** (Country_ID*, Vaccine_ID*, Age_Group, Date*, people_vaccinated, people_fully_vaccinated, total_boosters)
- **Vax_Metrics_By_USA_States** (State_ID*, State_Name, Date*, total_vaccinations, people_vaccinated, people_fully_vaccinated, people_with_booster_per_hundred, daily_vaccinations)

Database SQL :

1) Create Country table

```
CREATE TABLE Country (  
    Country_ID INT PRIMARY KEY,  
    Country_Name VARCHAR(255)  
);
```

2) Create Vaccines table

```
CREATE TABLE Vaccines (  
    Vaccine_ID INT PRIMARY KEY,  
    Vaccine_Name VARCHAR(255)  
);
```

3) Create Data_Source table

```
CREATE TABLE Data_Source (  
    Source_ID INT PRIMARY KEY,  
    Source_Name VARCHAR(255),  
    Source_Website VARCHAR(255)  
);
```

4) Create Vax_By_Country table

```
CREATE TABLE Vax_By_Country (  
    Country_ID INT,  
    Vaccine_ID INT,  
    Source_ID INT,  
    last_observation_date DATE,  
    total_vaccinations INT,  
    people_vaccinated INT,  
    people_fully_vaccinated INT,
```

```

daily_vaccinations INT,
daily_people_vaccinated INT,
total_boosters INT,
PRIMARY KEY (Country_ID, Vaccine_ID, Source_ID),
FOREIGN KEY (Country_ID) REFERENCES Country (Country_ID),
FOREIGN KEY (Vaccine_ID) REFERENCES Vaccines (Vaccine_ID),
FOREIGN KEY (Source_ID) REFERENCES Data_Source (Source_ID)
);

```

5) Create Vax_Metrics_By_Country table

```

CREATE TABLE Vax_Metrics_By_Country (
Country_ID INT,
Date DATE,
Vaccine_ID INT,
people_vaccinated_per_hundred DECIMAL(5, 2),
people_fully_vaccinated_per_hundred DECIMAL(5, 2),
total_distributed INT,
people_with_booster_per_hundred DECIMAL(5, 2),
PRIMARY KEY (Country_ID, Date, Vaccine_ID),
FOREIGN KEY (Country_ID) REFERENCES Country (Country_ID),
FOREIGN KEY (Vaccine_ID) REFERENCES Vaccines (Vaccine_ID)
);

```

6) Create Vax_Metrics_By_Type table

```

CREATE TABLE Vax_Metrics_By_Type (
Vaccine_ID INT,
Age_Group VARCHAR(255),
Total_Vaccinations INT,
people_vaccinated INT,
people_fully_vaccinated INT,
total_boosters INT,

```

```
PRIMARY KEY (Vaccine_ID, Age_Group),  
FOREIGN KEY (Vaccine_ID) REFERENCES Vaccines (Vaccine_ID)  
);
```

-7) Create Vax_Metrics_By_Age table

```
CREATE TABLE Vax_Metrics_By_Age (  
Country_ID INT,  
Vaccine_ID INT,  
Age_Group VARCHAR(255),  
Date DATE,  
people_vaccinated INT,  
people_fully_vaccinated INT,  
total_boosters INT,  
PRIMARY KEY (Country_ID, Vaccine_ID, Age_Group, Date),  
FOREIGN KEY (Country_ID) REFERENCES Country (Country_ID),  
FOREIGN KEY (Vaccine_ID) REFERENCES Vaccines (Vaccine_ID)  
);
```

8) Create Vax_Metrics_By_USA_States table

```
CREATE TABLE Vax_Metrics_By_USA_States (  
State_ID INT PRIMARY KEY,  
State_Name VARCHAR(255),  
Date DATE,  
total_vaccinations INT,  
people_vaccinated INT,  
people_fully_vaccinated INT,  
people_with_booster_per_hundred DECIMAL(5, 2),  
daily_vaccinations INT  
);
```

