

```
Country(
    Country_ID INT PRIMARY KEY,
    Country_Name CHAR(100),
    Country_Population INT,
    Total_of_vaccinations INT,
    Total_of_deaths INT,
    Total_of_confirmed INT,
    Total_of_cures INT
)

City(
    City_ID INT PRIMARY KEY,
    Country INT,
    City_Name CHAR(100),
    City_Population INT,
    Total_of_vaccinations INT,
    Total_of_deaths INT,
    Total_of_confirmed INT,
    Total_of_cures INT
    FOREIGN KEY(Country) REFERENCES Country(Country_ID)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
)

DailyData(
    Data_ID INT PRIMARY KEY,
    Country INT,
    City INT,
    Data_Date CHAR(100),
    Num_of_vac INT,
    Num_of_de INT,
    Num_of_cf INT,
    Num_of_cur INT,
    FOREIGN KEY(Country) REFERENCES Country(Country_ID)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
    FOREIGN KEY(City) REFERENCES City(City_ID)
    ON DELETE CASCADE
```

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        ON UPDATE CASCADE
    )

D_User(
    UserID INT PRIMARY KEY,
    Country INT,
    City INT,
    UserName CHAR(100),
    FOREIGN KEY(Country) REFERENCES Country(Country_ID)
    ON DELETE CASCADE
    ON UPDATE CASCADE,
    FOREIGN KEY(City) REFERENCES City(City_ID)
    ON DELETE CASCADE
    ON UPDATE CASCADE
)

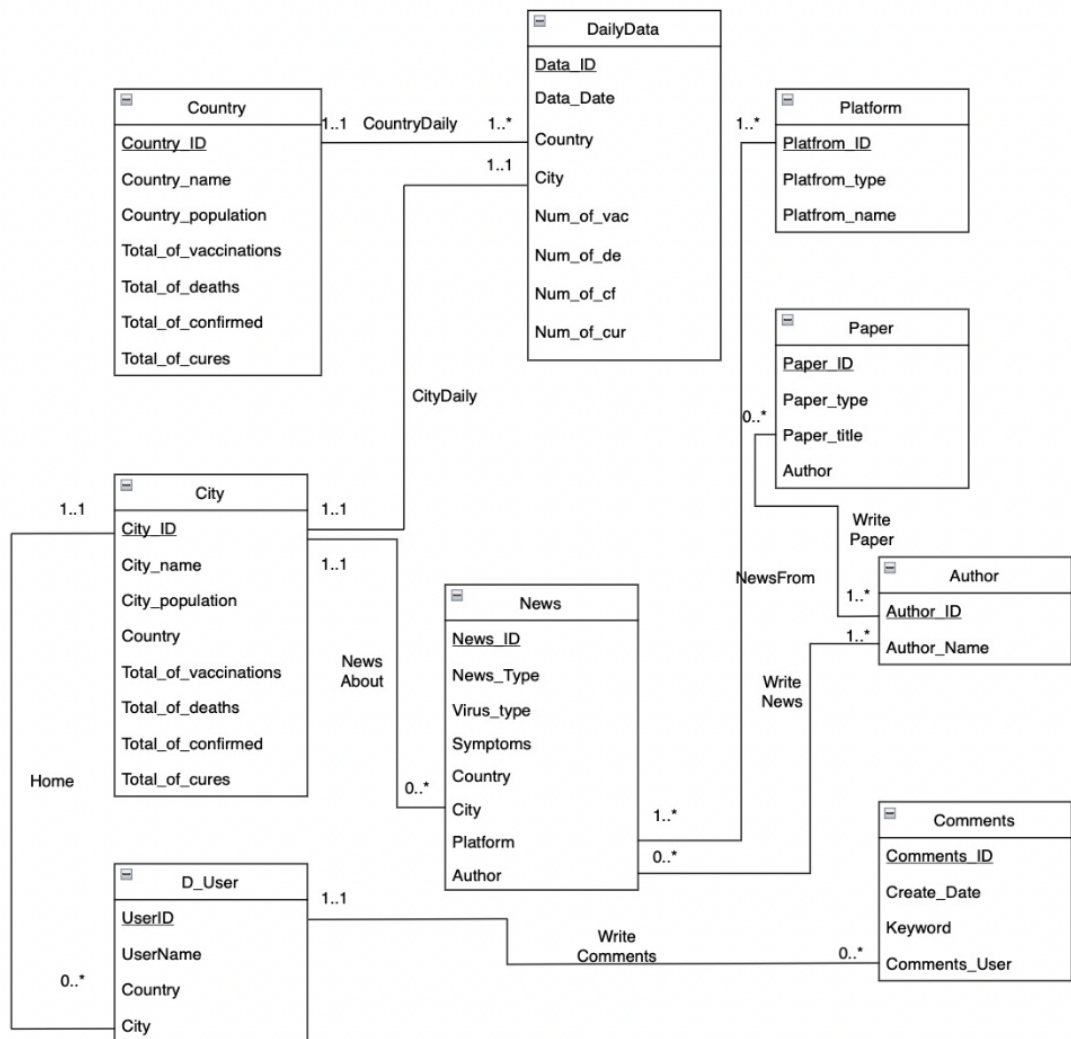
Author(
    Author_ID INT PRIMARY KEY,
    Author_Name CHAR(100)
)

Platform(
    Platform_ID INT PRIMARY KEY,
    Platform_type CHAR(100),
    Platform_name CHAR(100)
)

News(
    News_ID INT PRIMARY KEY,
    Country INT,
    City INT,
    Author INT,
    Platform CHAR(100),
    News_Type CHAR(100),
    Virus_type CHAR(100),
    Symptoms CHAR(100),
    FOREIGN KEY(Country) REFERENCES Country(Country_ID)
    ON DELETE CASCADE

```

```
    ON UPDATE CASCADE,  
    FOREIGN KEY(City) REFERENCES City(City_ID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE,  
    FOREIGN KEY(Author) REFERENCES Author(Author_ID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE,  
    FOREIGN KEY(Platform) REFERENCES Platform(Platform_ID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
)  
  
Comments(  
    Comments_ID INT PRIMARY KEY,  
    Comments_User INT,  
    Create_Date CHAR(100),  
    Keyword CHAR(100),  
    FOREIGN KEY(Comments_User) REFERENCES D_User(UserID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE  
)  
  
Paper(  
    Paper_ID INT PRIMARY KEY,  
    Author INT,  
    Paper_type CHAR(100),  
    Paper_title CHAR(100),  
    FOREIGN KEY(Author) REFERENCES Author(Author_ID)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE,  
)
```



We assume a Country can have 1 or more than 1 DailyData for different cities We assume a DailyData should only belongs to 1 Country

We assume a City can have 1 or more than 1 DailyData We assume a DailyData should only belongs to 1 City

We assume a City can have 0 or more than 0 users We assume a user should only belongs to 1 City

We assume a City can have 0 or more than 0 news We assume news should only be relevant to one city

We assume a platform can have 1 or more than 1 news
We assume news can belong to 1 or more than 1 platforms

We assume a author can write 1 or more than 1 papers

We assume a paper can have 1 or more than 1 authors

We assume a author can write 1 or more than 1 news We assume news can have 1 or more than 1 authors

We assume a user can write 1 or more than 1 comments We assume a comment should be only written by 1 user