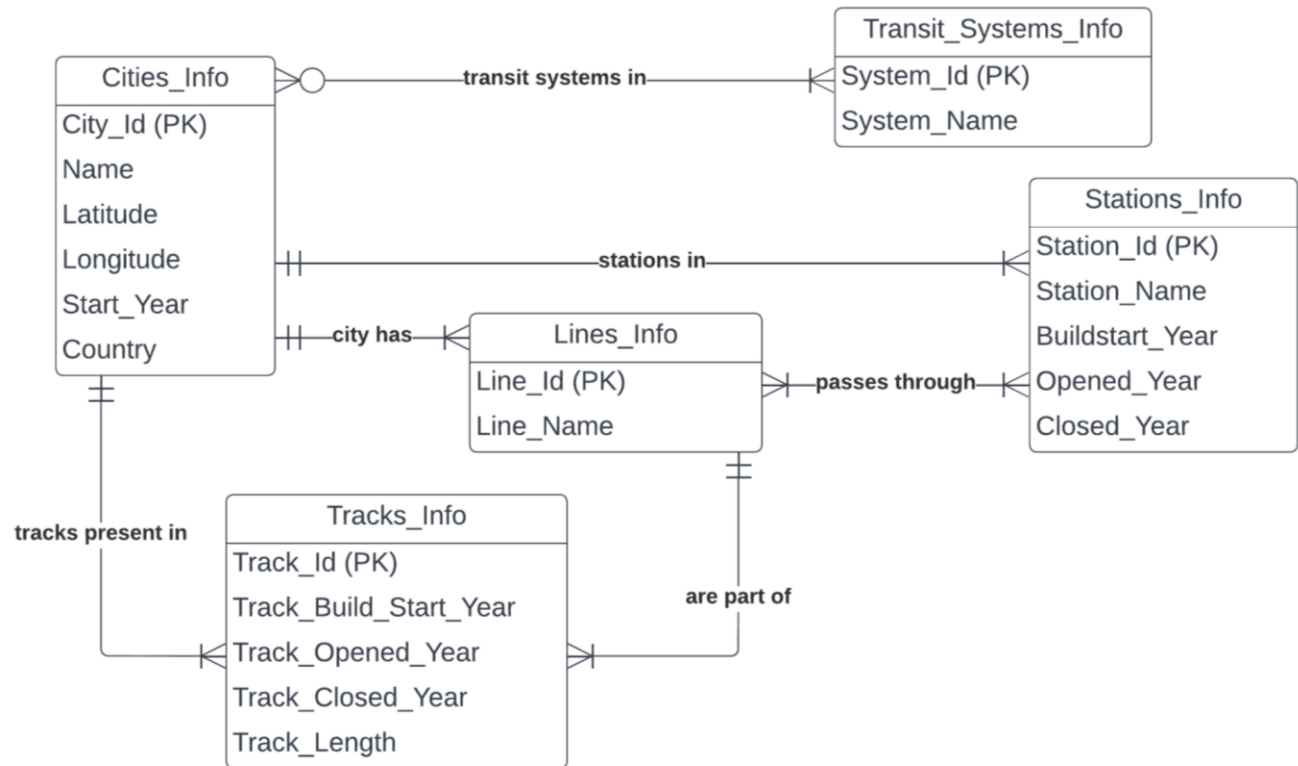


# Transit Systems Of World Database

## ER Diagram



## Relational Schema

We have the following tables in the *Transit Systems of the World* database schema:

- Cities\_Info
- Lines\_Info
- Tracks\_Info
- Station\_Lines\_Info
- Stations\_Info
- Track\_Lines\_Info
- Transit\_Systems\_Info

Each of these tables can be seen with its attributes below. The primary key of each table is **bold**, and the foreign keys are described in additional lines.

```
Cities_Info(City_ID (unique identifier of city), Name (name of city),  
            Latitude, Longitude (location of city), Start_Year (year the transit  
            system was started), country)
```

---

```
Lines_Info(Line_ID (unique line identifier), Line_Name (name of the  
            line), city_ID (ID of city which has the line), System_ID (ID of  
            transit system which has the line))
```

```
//City_ID is a F.K. (foreign key) referencing Cities_Info(City_ID)  
//System_ID is a F.K. referencing Transit_Systems_Info(System_ID)
```

---

```
Stations_Info(Station_ID (unique identifier), Station_Name (name of  
              the station), BuildStart_Year, Opened_Year, Closed_Year, City_ID)
```

```
//City_ID is a F.K. referencing Cities_Info(City_ID)
```

---

```
Station_Lines_Info(StationLine_ID (unique identifier), Station_ID (ID  
                   of a station), Line_ID, City_ID, Date_Created (data of creation)
```

```
//City_ID is a F.K. referencing Cities_Info(City_ID)  
//Line_ID is a F.K. referencing Lines_Info(Line_ID)  
//Station_ID is a F.K. referencing Stations_Info(Station_ID)
```

---

```
Transit_Systems_Info(System_ID(unique identifier), System_Name (name  
                     of transit system), City_ID)
```

```
//City_ID is a F.K. referencing Cities_Info(City_ID)
```

---

```
Track_Lines_Info(Trackline_ID, Section_ID, Line_ID, City_ID,  
                 Date_Of_Creation (date the track was created))
```

```
//City_ID is a F.K. referencing Cities_Info(City_ID)  
//Line_ID is a F.K. referencing Lines_Info(Line_ID)
```

---

```
Track_Info(Track_ID, Track_Build_Start_Year, Track_Opened_Year,  
           Track_Closed_Year, Track_Length, City_ID)
```

```
City_ID is a F.K. referencing Cities_Info(City_ID)
```

## Schema Diagram

