SQL Mini Project: Analyzing Unicorn Companies

1. Project Overview:

This project involves analyzing a dataset of unicorn companies, which are privately held companies valued at over $1 billion as of November 2021. The project will include data creation, analysis using SQL, and answering specific questions about the dataset.

2. CSV Data Structure:

You can use the following CSV structure to represent the dataset:

```
Company,Country,Sector,Valuation (Billion USD),Founded Year,Select
Investors
SpaceX,United States,Aerospace,100.3,2002,Fidelity, Founders Fund,
Baillie Gifford
Stripe,United States,FinTech,95.0,2010,Sequoia Capital, Andreessen
Horowitz, Baillie Gifford
ByteDance,China,Artificial Intelligence,140.0,2012,Sequoia Capital
China, General Atlantic
UiPath,United States,Robotics,35.0,2005,Accel, CapitalG, Sequoia
Capital
Klarna,Sweden,FinTech,46.0,2005,Sequoia Capital, Silver Lake,
Dragoneer
…
```

3. SQL Database Setup:

Create a database and a table using the following SQL commands:

```sql
CREATE DATABASE unicorn_companies;

USE unicorn_companies;

CREATE TABLE unicorns (
    id INT AUTO_INCREMENT PRIMARY KEY,
    company VARCHAR(255),
    country VARCHAR(100),
    sector VARCHAR(100),
    valuation DECIMAL(10, 2),
```

```
    founded_year INT,
    investors TEXT
);

-- Load data from CSV into the unicorns table
LOAD DATA INFILE '/path/to/unicorns.csv'
INTO TABLE unicorns
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
LINES TERMINATED BY '\n'
IGNORE 1 ROWS
(company, country, sector, valuation, founded_year, investors);
```

4. Analysis Questions:

Here are some questions you can answer using SQL queries:

1- Top 5 Countries by Number of Unicorns
2- Top 3 Sectors by Average Valuation:
3- Unicorns Founded After 2010
4- Total Valuation of Unicorns in the FinTech Sector
5- Most Common Investors

5. Challenges:

- **Identify Trends:** Explore trends in the data, such as the growth of unicorns in specific sectors or countries.
- **Investor Analysis:** Which investors have the most unicorns in their portfolio?
- **Growth Analysis:** Compare valuations of companies founded in different decades to understand growth trends.

This mini-project will give you a comprehensive understanding of unicorn companies' global distribution, sectoral importance, and investor involvement.