--- 1. What is the total funding amount raised by companies in each sector?

```
SELECT sector, SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY sector
ORDER BY total_funding DESC;
```

--- 2. What is the average funding amount for each funding stage?

```
SELECT funding_stage, AVG(funding_amount_usd) AS average_funding
FROM companies_data
GROUP BY funding_stage
ORDER BY average_funding DESC;
```

--- 3. Which countries are attracting the most funding, and how does this compare to the number of companies funded in each country?

```
SELECT country,
    COUNT(company_index) AS number_of_companies,
    SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY country
ORDER BY total_funding DESC;
```

--- 4. Percentage of total funding by year

```
SELECT YEAR(funding_date) AS year,
    SUM(funding_amount_usd) AS total_funding,
    (SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
GROUP BY year
ORDER BY percentage_of_total DESC;
```

--- 5. What is the average funding amount per company by country and sector?

```
SELECT country, sector,
    AVG(funding_amount_usd) AS average_funding_per_company
FROM companies_data
```

```
GROUP BY country, sector
ORDER BY average_funding_per_company DESC;
```

--- 6. What are the top 5 countries with the highest average funding amount, and which sectors are they predominantly funding?

```
SELECT country,
      AVG(funding_amount_usd) AS average_funding,
      sector
FROM companies_data
GROUP BY country, sector
ORDER BY average_funding DESC
LIMIT 5;
```

--- 7. Which funding stage has the highest percentage in funding amounts?

```
SELECT funding_stage,
      VARIANCE(funding_amount_usd) AS funding_variance
FROM companies_data
GROUP BY funding_stage
ORDER BY funding_variance DESC;
```

--- 8. Which companies raised the most funding within each sector?

```
SELECT sector, company_name, funding_amount_usd
FROM companies_data
WHERE (sector, funding_amount_usd) IN
     (SELECT sector, MAX(funding_amount_usd)
      FROM companies_data
      GROUP BY sector)
ORDER BY sector DESC;
```

--- 9. How has the average funding amount changed over time (e.g., year-over-year)?

```
SELECT YEAR(funding_date) AS funding_year,
      AVG(funding_amount_usd) AS average_funding_per_year
FROM companies_data
GROUP BY funding_year
ORDER BY funding_year;
```

--- 10. Which sectors have the highest and lowest average funding amounts by country?

```
  SELECT country, sector, AVG(funding_amount_usd) AS average_funding
  FROM companies_data
  GROUP BY country, sector
  ORDER BY average_funding DESC;
```

--- 11. What is the distribution of funding amounts across funding stages?

```
  SELECT funding_stage,
       COUNT(company_index) AS number_of_companies,
       SUM(funding_amount_usd) AS total_funding
  FROM companies_data
  GROUP BY funding_stage
  ORDER BY total_funding DESC;
```

--- 12. What is the cumulative funding raised each month and how does it trend over time?

```
  SELECT DATE_FORMAT(funding_date, '%Y-%m') AS month,
       SUM(funding_amount_usd) AS total_funding
  FROM companies_data
  GROUP BY month
  ORDER BY month;
```

--- 13. How many companies have received funding in each funding stage?

```
SELECT funding_stage,
     COUNT(company_name) AS number_of_companies
FROM companies_data
GROUP BY funding_stage
ORDER BY number_of_companies DESC;
```

--- 14. Which company received the highest funding amount and when?

```
SELECT company_name,
     funding_amount_usd,
```

```
    funding_date
FROM companies_data
ORDER BY funding_amount_usd DESC;


--- 15. How many unique countries are represented in the dataset?


SELECT COUNT(DISTINCT country) AS unique_countries
FROM companies_data;


--- 16. What is the distribution of companies by country and sector?

SELECT country,
    sector,
    COUNT(company_name) AS number_of_companies
FROM companies_data
GROUP BY country, sector
ORDER BY number_of_companies desc;

--- 17. What is the trend of funding amounts over the years for each sector?

SELECT YEAR(funding_date) AS funding_year,
    sector,
    SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY funding_year, sector
ORDER BY funding_year, sector;


--- 18. Which countries are attracting the most funding?


SELECT country, SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY country
ORDER BY total_funding DESC;

--- 19. How many companies have raised more than $1 million?
SELECT COUNT(DISTINCT company_name) AS companies_above_1m
FROM companies_data
WHERE funding_amount_usd >= 1000000;
```

--- 20. How many companies have raised more than total $10 million?

```
SELECT COUNT(DISTINCT company_name) AS companies_above_10m
FROM companies_data
WHERE funding_amount_usd >= 10000000;
```

--- 21. How many companies have raised more than $100 million?

```
SELECT COUNT(DISTINCT company_name) AS companies_above_10m
FROM companies_data
WHERE funding_amount_usd >= 100000000;
```

--- 22. How many companies have raised more than $1 billion?

```
SELECT COUNT(DISTINCT company_name) AS companies_above_1b
FROM companies_data
WHERE funding_amount_usd >= 1000000000;
```

--- 23. Highest and lowest funding in 2020 and 2021

```
SELECT YEAR(funding_date) AS funding_year,
    MAX(funding_amount_usd) AS highest_funding,
    MIN(funding_amount_usd) AS lowest_funding
FROM companies_data
WHERE YEAR(funding_date) IN (2020, 2021)
GROUP BY funding_year;
```

--- 24. Highest and lowest funding in 2020 and 2021 sector-wise

```
SELECT YEAR(funding_date) AS funding_year,
    sector,
    MAX(funding_amount_usd) AS highest_funding,
    MIN(funding_amount_usd) AS lowest_funding
FROM companies_data
WHERE YEAR(funding_date) IN (2020, 2021)
GROUP BY funding_year, sector
ORDER BY funding_year, sector;
```

--- 25. Highest and lowest funding in 2020 and 2021 funding stage-wise

```
SELECT YEAR(funding_date) AS funding_year,
    funding_stage,
    MAX(funding_amount_usd) AS highest_funding,
    MIN(funding_amount_usd) AS lowest_funding
FROM companies_data
WHERE YEAR(funding_date) IN (2020, 2021)
GROUP BY funding_year, funding_stage
ORDER BY funding_year, funding_stage;
```

--- 26. What is the distribution of funding amounts across funding stages?

```
SELECT funding_stage,
    COUNT(company_name) AS number_of_companies,
    SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY funding_stage
ORDER BY total_funding DESC;
```

--- 27. Total companies who got funded in year 2020 and 2021

```
SELECT YEAR(funding_date) AS funding_year,
    COUNT(DISTINCT company_name) AS total_companies
FROM companies_data
WHERE YEAR(funding_date) IN (2020, 2021)
GROUP BY funding_year;
```

--- 28. Highest funded company in 2020 and 2021

```
SELECT company_name, funding_amount_usd, YEAR(funding_date) AS funding_year
FROM companies_data
WHERE YEAR(funding_date) IN (2020, 2021)
ORDER BY funding_amount_usd DESC
LIMIT 1;
```

--- 29. Total unique funding stages

```
SELECT COUNT(DISTINCT funding_stage) AS unique_funding_stages
FROM companies_data;
```

--- 30. Total unique countries

```
SELECT COUNT(DISTINCT country) AS unique_countries
FROM companies_data;
```

--- 31. Which companies have received funding more than once, and what is their total funding amount?

```
SELECT company_name,
    COUNT(funding_date) AS number_of_fundings,
    SUM(funding_amount_usd) AS total_funding
FROM companies_data
GROUP BY company_name
HAVING COUNT(funding_date) > 1
ORDER BY total_funding DESC;
```

--- 32. Which funding stage has the highest percentage in funding amounts?

```
SELECT funding_stage,
    SUM(funding_amount_usd) AS total_funding,
    (SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
GROUP BY funding_stage
ORDER BY percentage_of_total DESC;
```

--- 33. Percentage of total funding by sector

```
SELECT sector,
    SUM(funding_amount_usd) AS total_funding,
    (SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
```

```
GROUP BY sector
ORDER BY percentage_of_total DESC;


--- 34. Percentage of total funding by country

SELECT country,
	SUM(funding_amount_usd) AS total_funding,
	(SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
GROUP BY country
ORDER BY percentage_of_total DESC;

--- 35. Percentage of total funding by company
SELECT company_name,
	SUM(funding_amount_usd) AS total_funding,
	(SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
GROUP BY company_name
ORDER BY percentage_of_total DESC;

--- 36. Percentage of total funding by funding stage
SELECT funding_stage,
	SUM(funding_amount_usd) AS total_funding,
	(SUM(funding_amount_usd) / (SELECT SUM(funding_amount_usd) FROM
companies_data)) * 100 AS percentage_of_total
FROM companies_data
GROUP BY funding_stage
ORDER BY percentage_of_total DESC;
```