

## Step 1

Theory

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Welcome to your first week as a Data Analyst at VentureInsight, a leading research firm that provides analytics and insights to venture capital firms and startup investors. Our clients rely on our data-driven Project: Exploring Startup Trends with SQL Task 1 / 10

1. Startup Landscape Analysis

Before diving into specific analyses, your first task is to understand the overall startup landscape in our database. The executive team needs a snapshot of how many companies have failed (closed down) versus how many are still operating or have been acquired. This will help establish the baseline success rate in the startup ecosystem.  
  
Calculate the number of companies that have been closed down.

Relevant lessons

This task requires a basic `SELECT` statement with a `COUNT` aggregation and `WHERE` clause for filtering. If necessary, review the following lessons: "Tables and Databases" and "The `WHERE` Clause".

Sprint 2: Data Collection and Storage (SQL)

```
1 SELECT  
2 COUNT(*) AS closed_down  
3 FROM  
4 company  
5 WHERE  
6 status = 'closed';
```

Result

Passed You can continue

Run Submit Task 2 →

⌂ ⚙️ 🧑🏻

## Step 2

Sprint 2: Data Collection and Storage (SQL)

Theory

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2 Sector Analysis for US Investors

One of our major clients, a US-based VC firm, is considering investments in the media and news space. They've asked us to provide data on how much funding news-related companies from the USA have raised historically, to help them benchmark appropriate investment amounts.  
  
Print the amount of money news-related companies from the USA have raised. Use data from the company table. Sort the resulting table by the funding\_total field in descending order to see the most well-funded companies first.

Relevant lessons

This task builds on filtering data with multiple WHERE conditions and sorting results. If necessary, review the following lessons: "The WHERE Clause" and "Logical Operators".

```
1 select
2     funding_total
3 from
4     company
5 where
6     category_code = 'news'
7     AND country_code = 'USA'
8 ORDER BY
9     funding_total DESC;
```

Result

Passed  
You can continue

Run Submit Task 1 Task 3

Rate task Next

## Step 3

Sprint 2: Data Collection and Storage (SQL)

Theory

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Project: Exploring Startup Trends with SQL Task 3 / 10

3. Analyzing Cash Acquisitions

Our quarterly report includes a section on acquisition trends. The team needs to understand the volume of cash-based acquisitions (as opposed to stock deals) that occurred during the recent post-recession period (2011-2013). This data will help identify whether companies were primarily acquired with cash or other payment methods during this economic recovery period.

Find the total amount of company acquisitions in US dollars. Select only the deals made in cash from 2011 to 2013, inclusive.

🔥 Relevant lessons

If necessary, review the following lessons: "Data Types" and "The WHERE Clause", and "The SUM Function".

4. Identifying Industry Influencers

```
1 select
2   SUM(price_amount) AS total_amount_acquisitions
3 from
4   acquisition
5 where
6   term_code = 'cash'
7  AND acquired_at BETWEEN '2011-01-01' AND '2013-12-31';
```

Result

Passed You can continue Task 2 ← Task 4 → Next →

## Step 4

Sprint 2: Data Collection and Storage (SQL)

Theory

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Project: Exploring Startup Trends with SQL Task 4 / 10

4. Identifying Industry Influencers

Our marketing team is preparing an outreach campaign to industry influencers with strong social media presence. They're particularly interested in individuals who brand themselves with "Silver" in their Twitter handles, as this group seems to have significant industry clout. We need to identify these individuals for potential partnerships.

Print the first and last names of people whose Twitter usernames start with 'Silver'. Include their Twitter usernames in the results.

🔥 Relevant lessons

This task focuses on pattern matching in text fields. If necessary, review the following lessons: "Searching for Data in a Table: LIKE".

5. Finding Finance Influencers

```
1 select
2   first_name,
3   last_name,
4   twitter_username
5 from
6   people
7 where
8   twitter_username LIKE 'Silver%';
9
```

Result

Passed You can continue Task 3 ← Task 5 → Next →

## Step 5

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Project: Exploring Startup Trends with SQL Task 5/10

### 5. Finding Finance Influencers

Following your initial influencer analysis, the marketing team has refined their focus. They're now looking specifically for finance-focused influencers (those with "money" in their Twitter handles) whose last names start with 'K'. This more targeted approach will help them connect with relevant industry voices for our upcoming FinTech investment report.

Print all information about people whose Twitter usernames include the word 'money' somewhere in their name and whose last names start with 'K'.

**Relevant lessons**

This task extends your pattern matching skills with multiple conditions. If necessary, review the following lessons: "Searching for Data in a Table: `LIKE`" and "Logical Operators".

```
1 select *
2 from
3   people
4 where
5   twitter_username LIKE '%money%' AND last_name LIKE 'K%';
6
```

Result

Passed  
You can continue

Run

Submit

Task 4 ←

Task 6 →

Rate task

Next →

## Step 6

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Project: Exploring Startup Trends with SQL Task 6/10

### 6. Geographic Investment Analysis

Our global investment clients need to understand funding patterns across different countries. They want to identify which countries attract the most venture capital to help them decide where to focus their international investment strategies. This geographic breakdown will be a key feature in our quarterly global trends report.

For each country, calculate the total amount of money raised by companies registered there. The country code will tell you where each company is registered. Sort the data by sum in descending order to highlight the countries with the most funding.

**Relevant lessons**

This task introduces grouping data and performing aggregate calculations on groups. If necessary, review the following lessons: "Grouping Data: `GROUP BY`" and "The `SUM` Function".

```
1 select
2   country_code,
3   SUM(funding_total)
4 from
5   company
6 GROUP by
7   country_code
8 ORDER BY
9   SUM(funding_total) DESC
10 ;
```

Result

Passed  
You can continue

Run

Submit

Task 5 ←

Task 7 →

Rate task

Next →

## Step 7

Theory

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7. Funding Round Volatility Analysis

Our risk analysis team is examining volatility in funding rounds. They're specifically interested in dates where there was significant variation between the smallest and largest rounds. This indicates days when both very small and very large companies were receiving funding, which could signal unusual market activity. They also want to exclude days where some companies received no funding at all, as that skews the analysis.

Create a table showing the highest and lowest amount of money raised for each date in the `funding_round` table. Include the dates in your results. The resulting table should only have records where the lowest value is not equal to zero or to the highest value.

🔑 Relevant lessons

This task combines grouping with filtering on aggregated data. If necessary, review the following lessons: "Grouping Data: `GROUP BY`" and "Processing Data Within a Grouping: `HAVING`".

Sprint 2: Data Collection and Storage (SQL)

```
1 select
2   funded_at,
3   MIN(raised_amount),
4   MAX(raised_amount)
5 from
6   funding_round
7 GROUP by
8   funded_at
9 having
10    MIN(raised_amount) <> MAX(raised_amount) AND MIN(raised_amount) <> 0;
```

Result

Passed  
You can continue

RunSubmitTask 6 ← Task 8 →

↺ ⌂ Rate task Next →

## Step 8

Theory
Task 8 / 10

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### 8. Fund Activity Classification

For our investor clients, understanding the activity level of different venture funds helps them identify potential co-investment partners. Funds that invest in many companies are often seen as having broader networks, while those with fewer investments might have deeper industry expertise. We need to categorize funds by their activity level to help our clients find appropriate partners.

Create a field with three categories:

- `high_activity` – for funds that invest in a hundred or more companies
- `middle_activity` – for funds that invest in between twenty (inclusive) to a hundred companies (exclusive)
- `low_activity` – for funds that invest in fewer than twenty companies

Print all fields from the `fund` table and the new field with categories.

**Relevant lessons**

```

1 select *,
2     CASE WHEN invested_companies >= 100 THEN 'high_activity'
3     WHEN invested_companies >= 20 THEN 'middle_activity'
4     WHEN invested_companies < 20 THEN 'low_activity' END AS activity
5 from fund;
6
7
            
```

Result

Passed  
You can continue

Run

Submit




Task 7 ←

Task 9 →




Rate task

Next →


## Step 9



Sprint 2: Data Collection and Storage (SQL)



Theory

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Project: Exploring Startup Trends with SQL

Task 9/10

**9. Investment Strategy by Fund Activity**

Building on our fund activity classification, our research team wants to understand how a fund's investment approach changes based on its activity level. Specifically, we want to know if funds that invest in more companies tend to participate in more funding rounds per company. This will help our clients understand different fund strategies and how broadly or deeply funds typically engage with their portfolio companies.


For each activity category you assigned in the previous task, calculate the average number of funding rounds the fund participated in. Round it to the nearest whole number. Print the categories and the average number of funding rounds. Sort the table by the average in ascending order.


 Relevant lessons

This task combines `CASE` expressions with grouping and aggregation. If necessary, review the following lessons: "Replacing Empty Values: `CASE`", "Grouping Data: `GROUP BY`", "Sorting Data: `ORDER BY`".

```
1 SELECT
2   CASE
3   WHEN invested_companies >= 100 THEN 'high_activity'
4   WHEN invested_companies >= 20 THEN 'middle_activity'
5   WHEN invested_companies < 20 THEN 'low_activity'
6   ELSE 'low_activity' END AS activity,
7   ROUND(AVG(investment_rounds)) AS average_rounds
8 FROM
9   fund
10 GROUP BY
11   activity
12 ORDER BY
13   average_rounds;
14
```

Result

 Passed  
You can continue





Run

Submit

Task 8 ←




Task 10 →






 Rate task

Next →


## Step 10



Sprint 2: Data Collection and Storage (SQL)



Theory

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Project: Exploring Startup Trends with SQL

Task 10/10

**10. Employee Education Impact on Startup Success**

A heated debate has emerged among our clients about whether the educational background of startup employees correlates with company success. Some argue that highly educated teams are more likely to succeed, while others claim education has little impact. To settle this debate with data, we need to compare the education levels of employees at successful companies versus those that closed after limited funding.

We'll start by identifying companies that closed after just one funding round, then analyze the educational backgrounds of their employees.


First, make a list with the names of companies that closed down and had only one funding round while they existed.


Then, find the employees who worked at these companies and join with the education table to analyze their degree types.

Finally, calculate the average number of degrees per employee at these failed startups.

```
1 SELECT AVG(t.total_degree_type)
2 FROM (SELECT people.id,
3   COUNT(education.degree_type) AS total_degree_type
4   FROM people AS people JOIN education AS education ON people.id = education.person_id
5   WHERE company_id IN (SELECT id
6     FROM company
7     WHERE id IN (SELECT company_id
8       FROM funding_round
9       WHERE is_first_round = 1 AND is_last_round = 1)
10    AND status = 'closed')
11   GROUP BY people.id) AS t;
12
13
14
```

Result


 Passed  
You can continue




Run

Submit

Task 9 ←



 Rate task

Next →