

SQL for Absolute Beginners

Adel Nehme
September 19th



Hello!

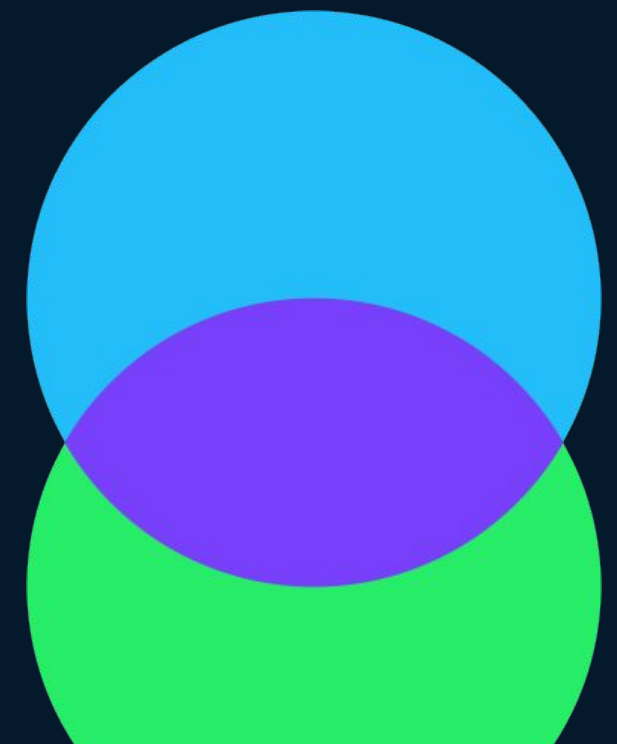
I'm Adel Nehme,
VP Media at DataCamp



Adel Nehme

VP Media @ DataCamp

 [adelnehme](#)

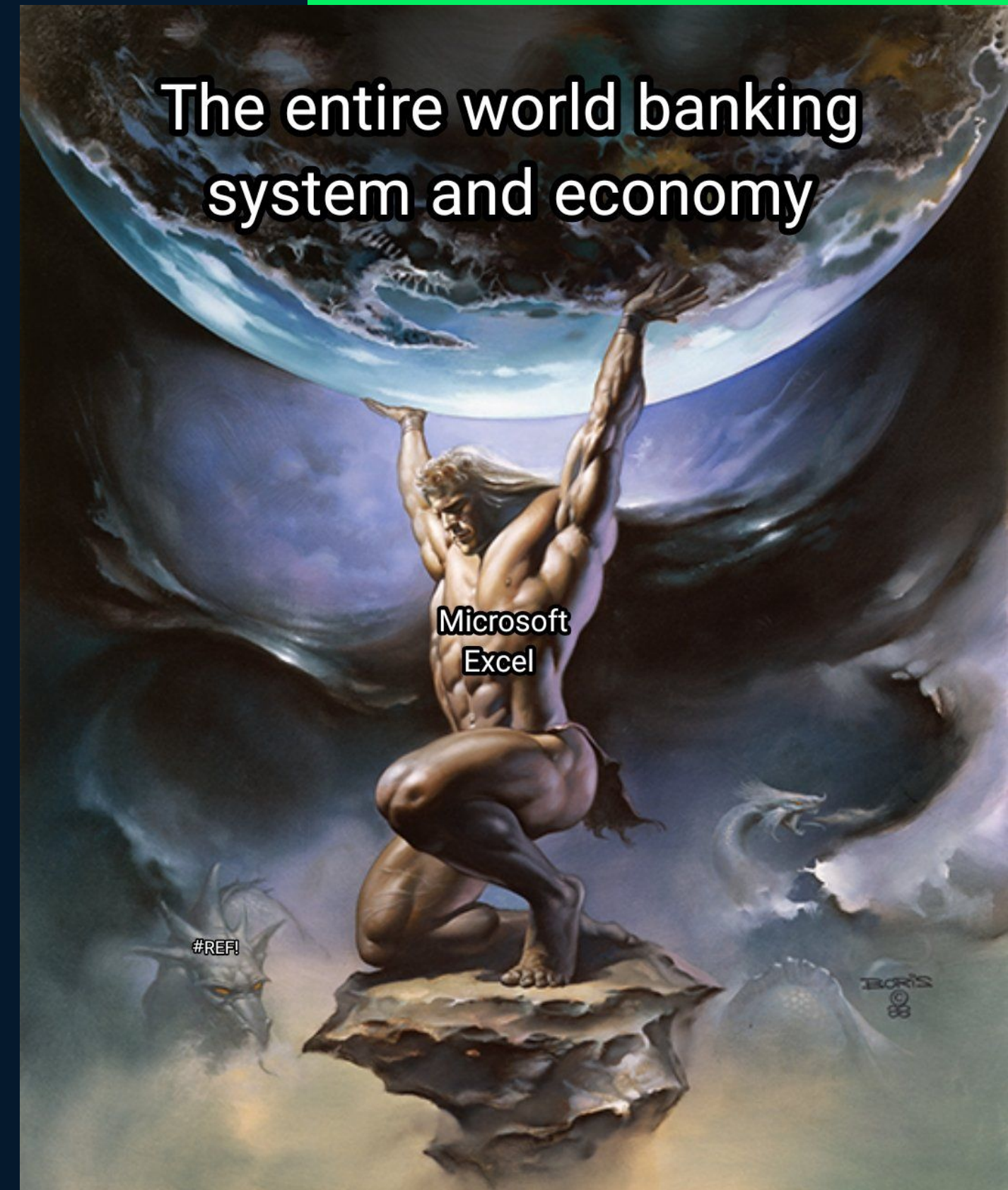


Agenda

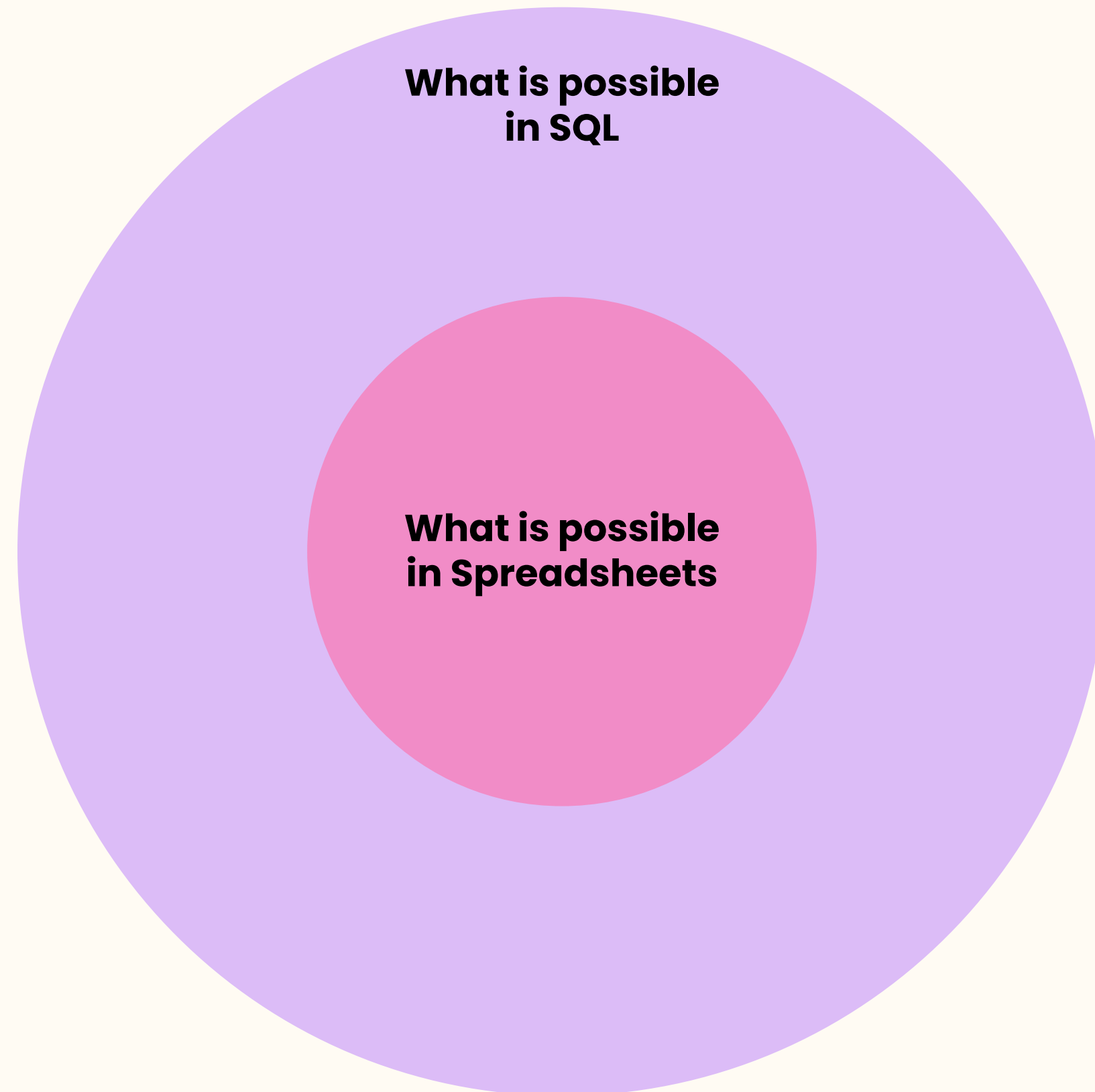
- 1 Some background on SQL, & what to expect in today's session
- 2  Live training 
- 3 What you can do with more SQL skills, and more learning resources



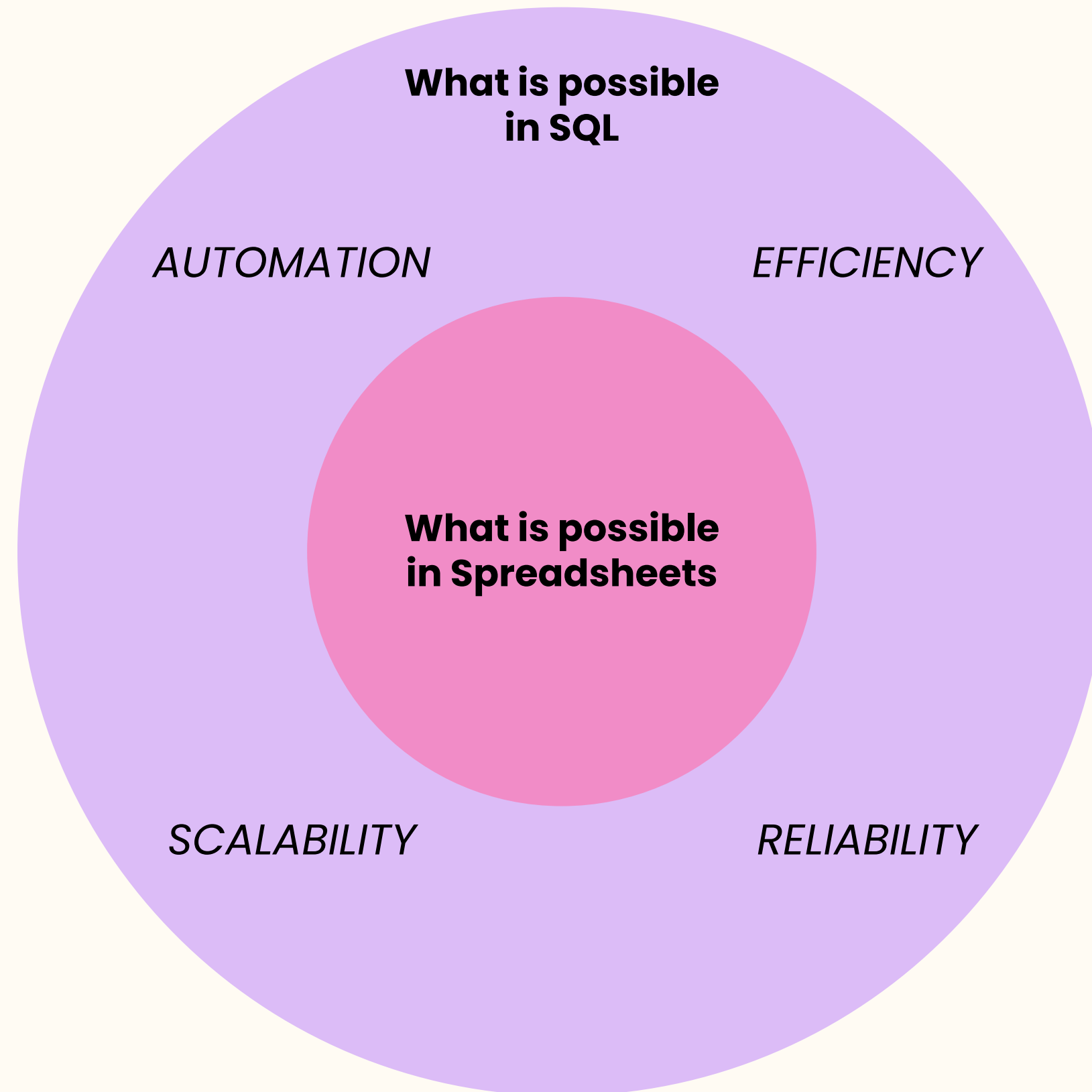
The value of spreadsheets



The data horizons beyond Excel



The data horizons beyond Excel



What we will be doing today



Dataset used

Airbnb listings in New York until 2020



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Airbnb listings in New York until 2020

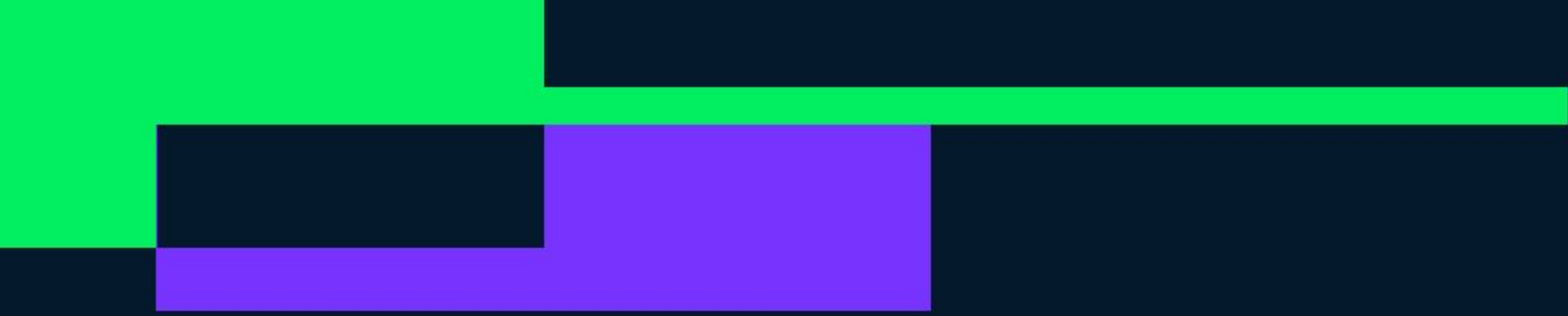
SQL Basics & Q&A

- **Question 1:** List the top 10 most reviewed private rooms
- **Question 2:** What are the cheapest 10 private rooms in New York?
- **Question 3:** What is the average availability of a private room in New York?

Q&A

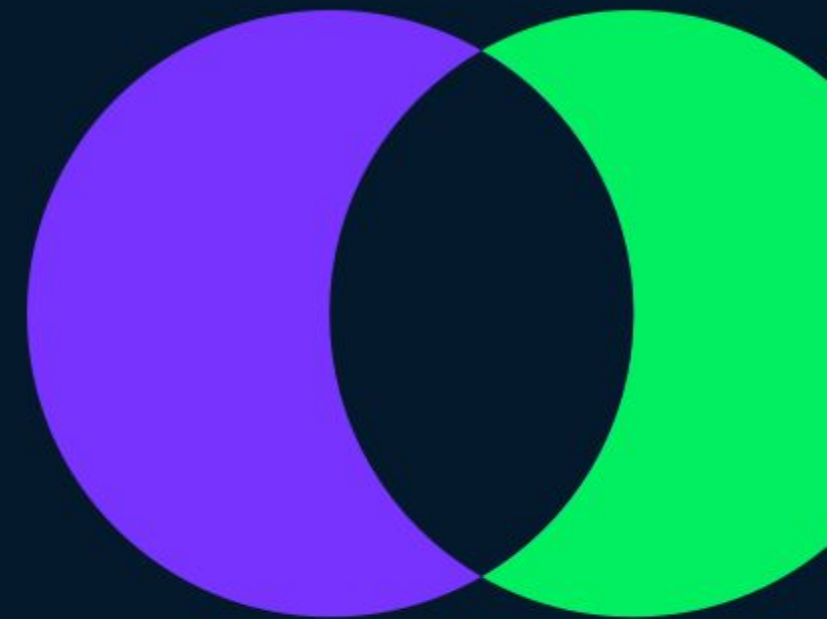
- **Question 4:** Which listings have an availability of fewer than 30 days a year but have fewer than 10 reviews?
- **Question 5:** What is the average number of reviews per room type, ordered by the average in descending order?
- **Question 6:** What is the number and average price of listings by room type where such listings are available for more than 250 days a year?





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Live training



How to access today's notebook

DataCamp Workspace

Cloud-based IDE that makes working with SQL easier — no installation needed, just upload a csv file and start working (or connect to a database)

Folder structure

- Training notebook (today's notebook)
- Solution notebook (with all answers filled out in case you are stuck)
- The data used

Access the workspace [HERE](#)



Key session takeaways

- Learn the basics of SQL & why it's foundational for data science work.
- Filter, group by, and analyse datasets using SQL.
- Answer key business questions with SQL.

The Dataset

The dataset to be used in this training is a CSV file named `airbnb_data.csv`, which contains data on airbnb listings in the state of New York. It contains the following columns:

- `listing_id` : The unique identifier for a listing
- `description` : The description used on the listing
- `host_id` : Unique identifier for a host
- `neighbourhood_full` : Name of boroughs and neighbourhoods
- `coordinates` : Coordinates of listing (latitude, longitude)
- `listing_added` : Date of added listing
- `room_type` : Type of room
- `rating` : Rating from 0 to 5.
- `price` : Price per night for listing
- `number_of_reviews` : Amount of reviews received
- `reviews_per_month` : Number of reviews per month
- `availability_365` : Number of days available per year
- `number_of_stays` : Total number of stays thus far

Questions to answer

- **Question 1:** What is the average number of reviews per room type, ordered by the average in descending order?
- **Question 2:** List the top 10 most reviewed private rooms
- **Question 3:** What is the number and average price of listings by room type where such listings are available for more than 250 days a year?
- **Question 4:** Which listings have an availability of fewer than 30 days a year but have fewer than 10 reviews?

Some SQL Basics

SQL Commands

Before we dive into answering our questions, let's get familiar with SQL syntax. Today, we'll be covering the most useful SQL commands — let's start with them one by one. This includes the following:

- `SELECT` : returns either all columns using `*` or specific columns as specified, seperated by a comma.
- `FROM` : specifies the table that the data should be returned from.
- `LIMIT` : limits the number of rows returned.
- `AS` : lets you set an alias for a particular column

 Edit

 Comment

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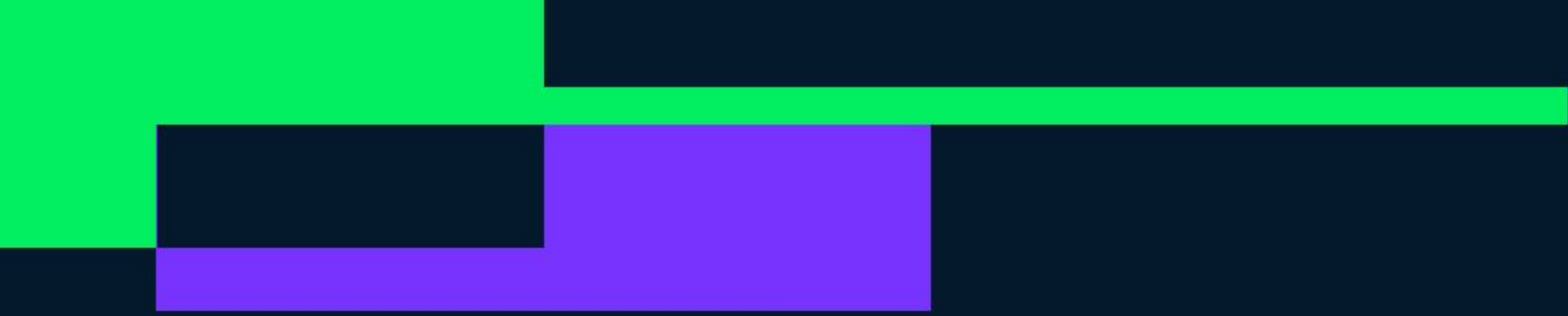
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How to access today's notebook

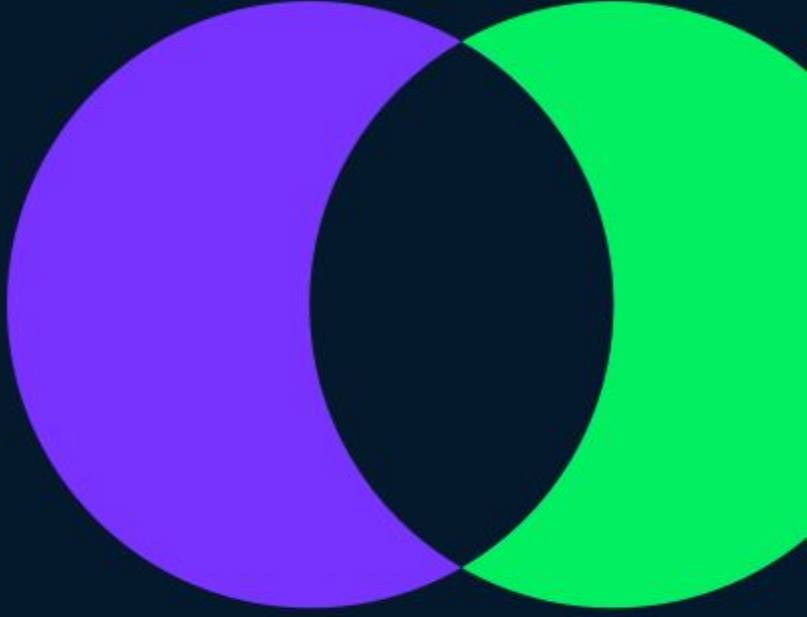
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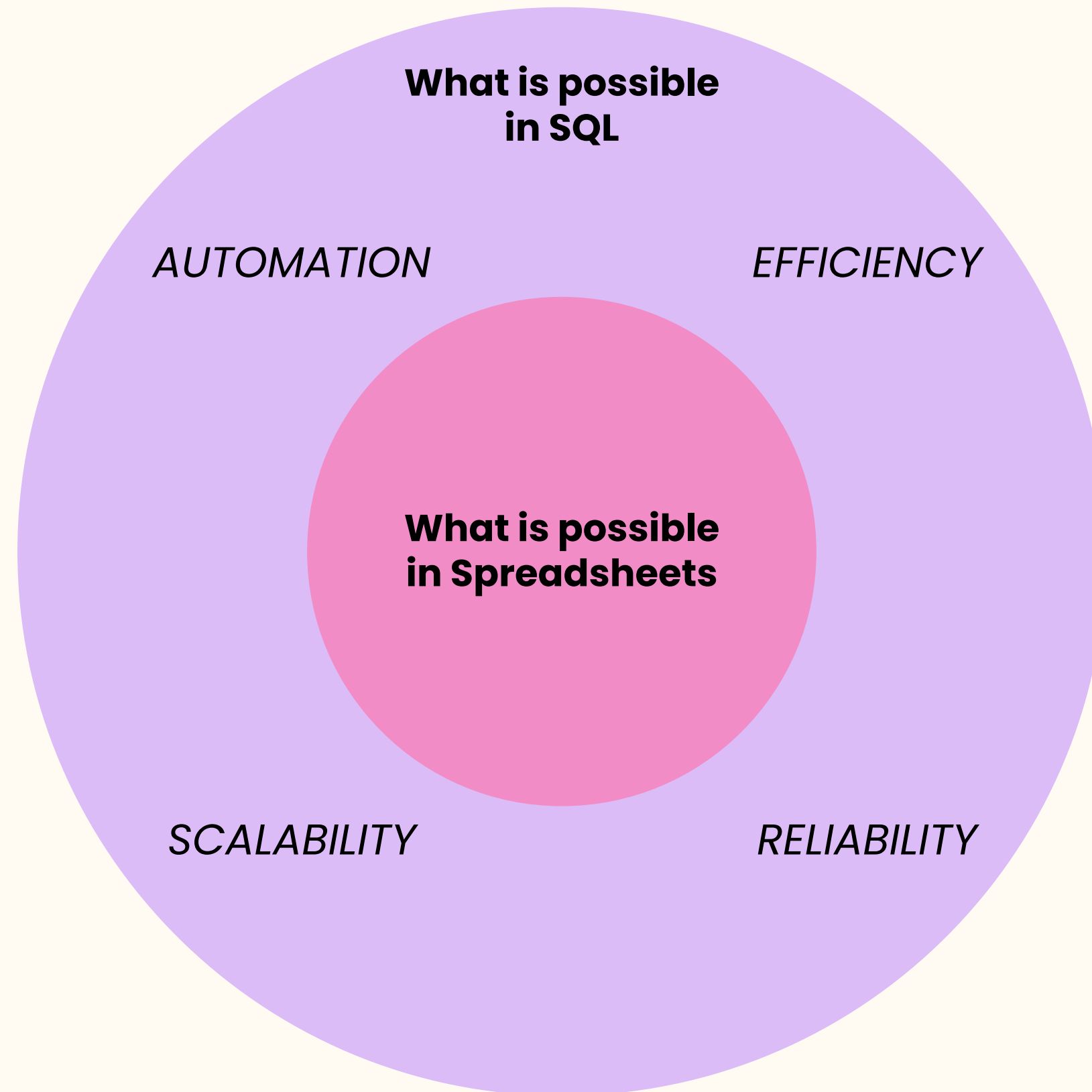


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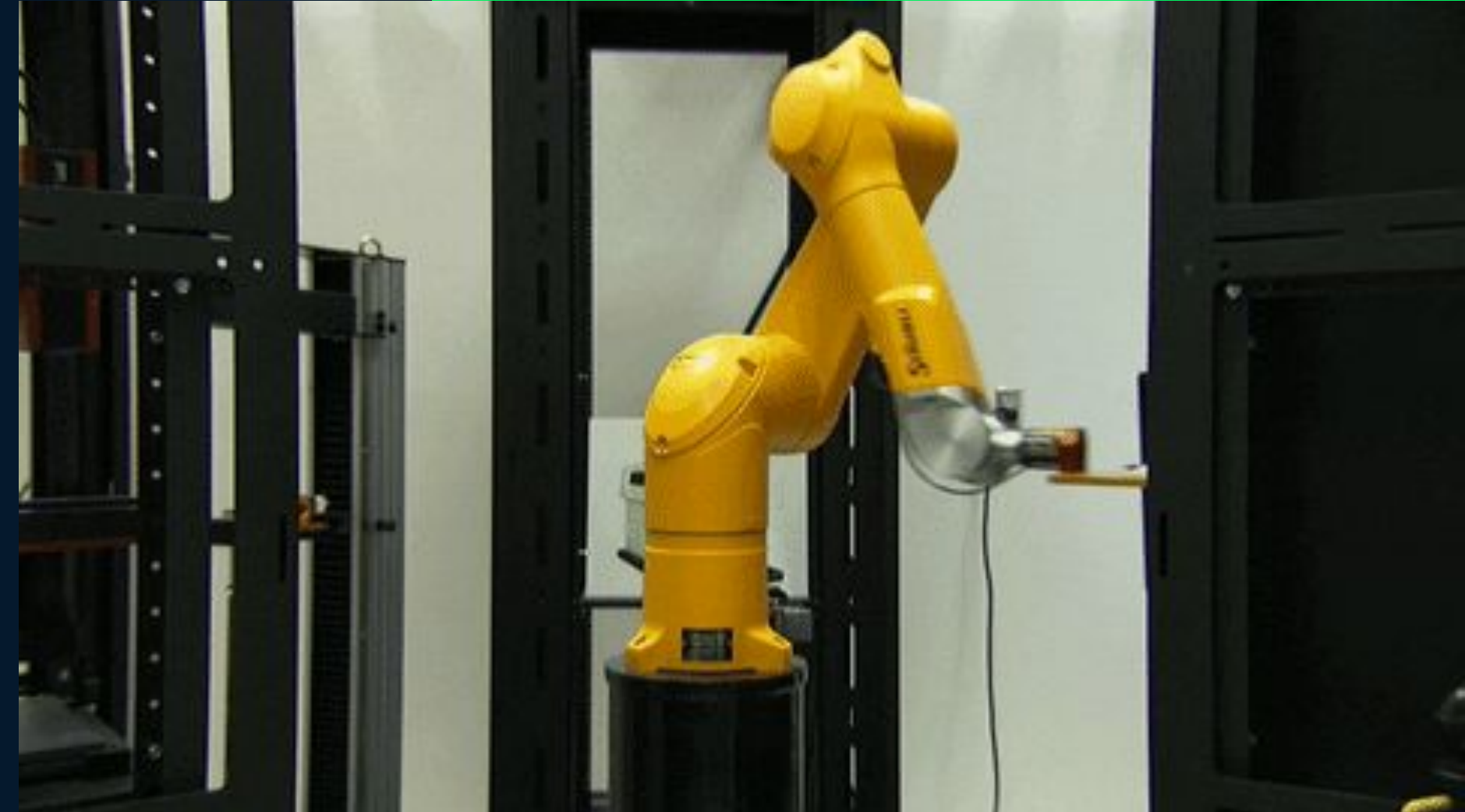
**What you can do with more SQL skills
and more learning resources for you**



The data horizons beyond Excel



Automation



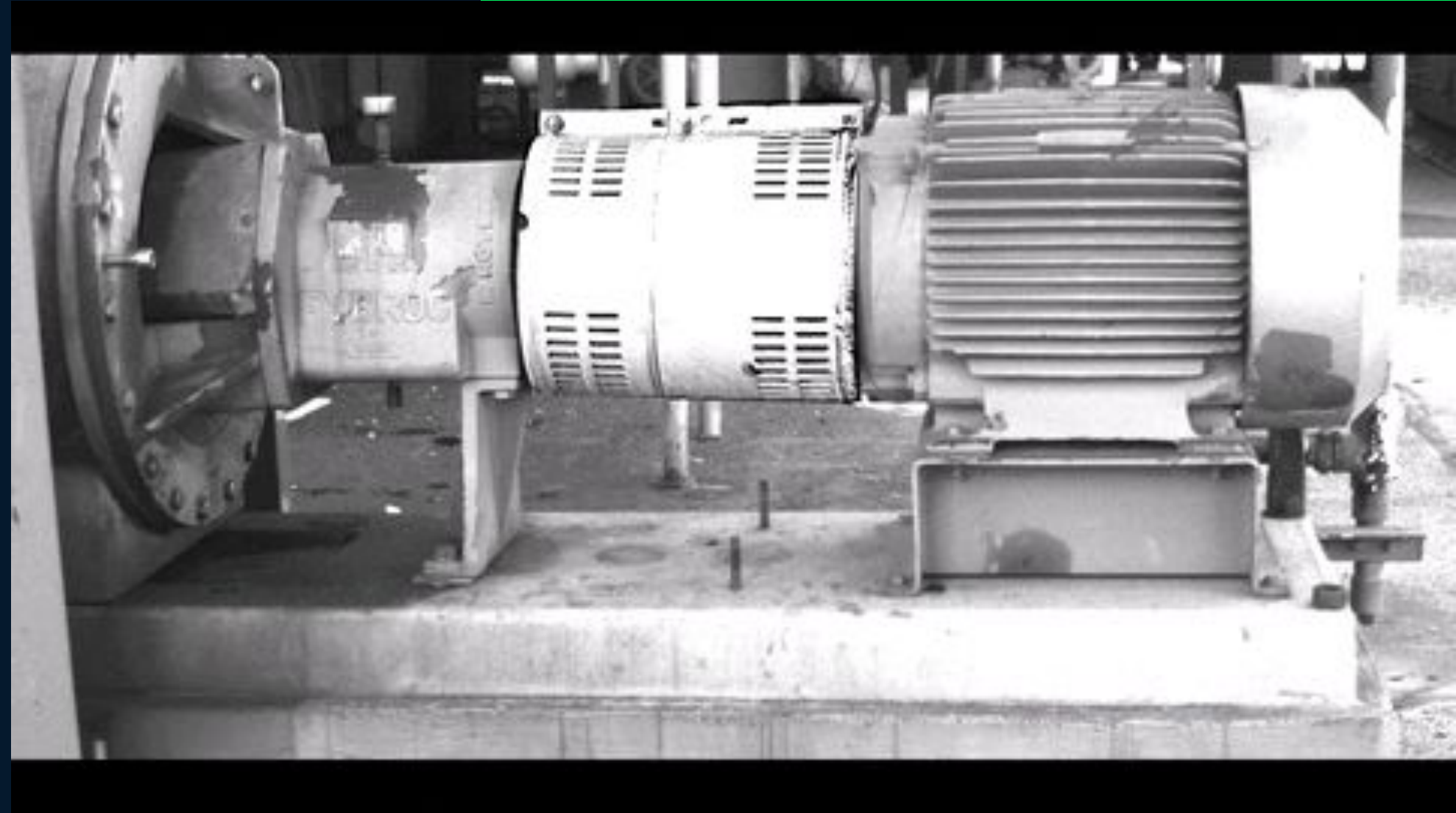
Efficiency

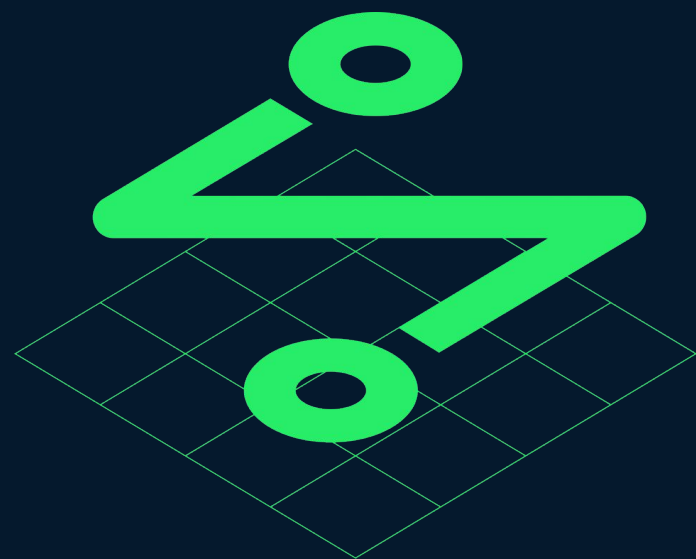


Scalability



Reliability





More learning resources for you



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Thank you