

ZOE

dbt Alerting for real time data teams

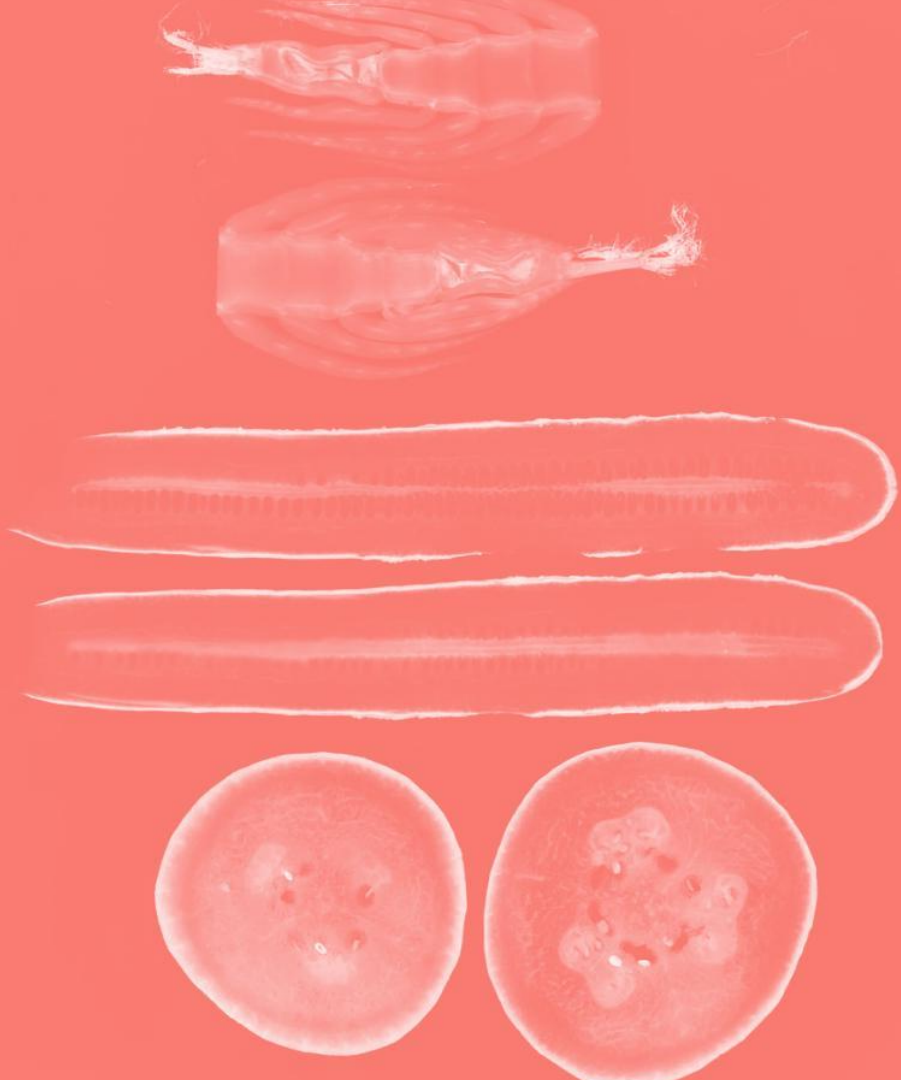
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Agenda

data at ZOE

This is our story ...

1. Who are we?
2. Why do we need real time data alerts?
3. What did we do about it?
4. What did we learn?
5. How do we plan to move this forward?



Iman Kalyan Majumdar

Full stack Engineer (Data)

An engineer with 5+ yrs of experience as a polyglot (Python, Go, JS) engineer who is passionate about creating the best possible products that maximize social impact and ex-entrepreneur.



Craig Wilson

Data Engineer

I have been working in data for the last 15+ years, particularly focussed on data warehousing and analytics.



ZOE started with a **scientific surprise**

ZOE comes from **science**

We've been running the world's largest
in-depth nutritional research study to help
you understand how your body works.

Built by scientists at



Published in:

naturemedicine

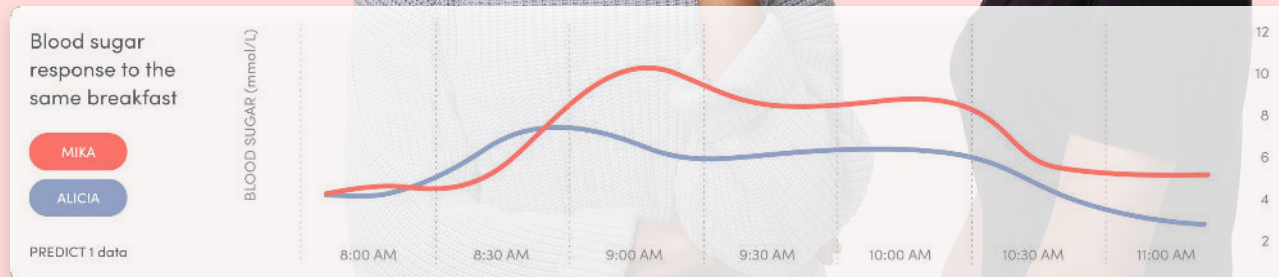
naturemetabolism



Gut



It turns out even identical twins aren't identical on the inside...



Which led us to **question** our
whole approach to healthcare

If we are each unique, can personalized
advice **transform our health?**





**To achieve this, we collect data at 100x the scale
of previous human science studies**

Where did we
start?

Before



Scheduled SQL w/o version control

Manual Reports

CSV Files

Where are we **now**?

Before

▪

▪

Present



bronze

silver

gold



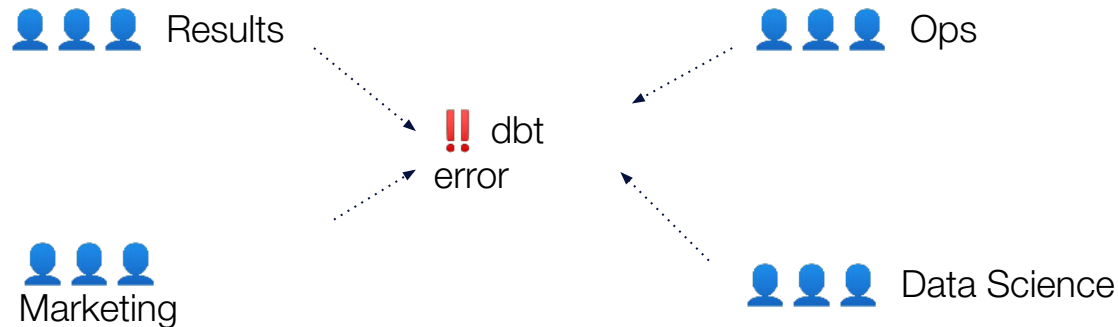
End to End

CI/CD

Tests

That's all great!
But we still had a
problem!

Problem



👁️ no one is aware of the failure

? who owns which table / failure

🤔 what failed?!!



dbt

bronze

silver



Google
Big Query

gold



holistics







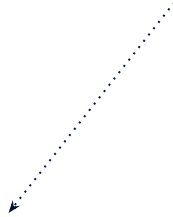
meta tags



run_results.json

manifest.json

sources.json



?





+



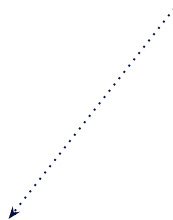
meta tags



run_results.json

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holistics



Apache
Airflow



slack



Demo

What did we
learn?



Reduced time to resolve dbt test failures



Increased visibility of errors for teams



Clear ownership of data within the company



Clear error message, accessible directly in Slack



Manual tagging removed

Where do we go
next?

Roadmap



Open source our project!



Snooze alerts for short periods



Artifact Links to the compiled queries



Button link to BI tool view pre-populated failed rows or report



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the UK H1 2022**

•
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will join us!



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UK/EU/Remote • Full-time

Software Engineer - Operations & Logistics

UK/EU/Remote • Full-time

Software Engineer - Product

UK/EU/Remote • Full-time

We are hiring



If you are interested, visit
our careers page at
joinzoe.com

Any questions?

joinzoe.com

