Engineer Data

Automated data processing in Python and PL/pgSQL

Automated data processing tasks using Shell scripting, PL/pgSQL, Python, and Transact-SQL, increasing productivity and efficiency.

2015 – 2022

the repetitive data work, done by script

Situation. There was a steady load of recurring data-processing work being done by hand. Manual data work has two problems at once: it eats time, and it's inconsistent — do the same task by hand enough times and it'll get done slightly differently, and some of those differences are errors.

Task. The aim was to automate these tasks, both to get the time back and to make them reliable.

Action. The data-processing work got automated across the databases and systems it touched, using whatever fit the job — Shell scripting for the glue, PL/pgSQL and Transact-SQL down in the databases, Python where it needed more than SQL could give. Manual steps got replaced with jobs that ran the same way every time, which is the whole point: a script doesn't get bored, doesn't skip a step, and doesn't do it differently on a Friday afternoon.

Result. Productivity and efficiency both went up, the manual effort came off people's plates, and the data processing became consistent and dependable instead of a source of small, recurring errors.

Bring this experience to your project

Use "Automated data processing in Python and PL/pgSQL" as a starting point for a similar challenge in your organisation. The services behind this work are available for your project. Somebody responsible for the thing the whole company rests on: it is up, it is backed up, and it is not quietly rotting.

Explore our services Get in touch →

Look behind the result

Read the situation, decisions and result in this example. We can discuss which parts transfer to your constraints and which need another approach. Automated data processing in Python and PL/pgSQL — the repetitive data work, done by script

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Drowning in repetitive data work?

Talk through your project with the engineer responsible for delivery. We agree the scope, price basis and handover in writing before work begins.

Role context: Data Engineer. It draws on Databases, PostgreSQL, SQL, Data Engineering, Data Pipelines (ETL/ELT), Automation & CI/CD and Python. And while you are here, we are rather good at Database Administration (DBA), Data Pipeline Development (ETL/ELT) and DevOps & CI/CD Automation.

Get in touch Explore our services

One piece of **a longer record** — and it is all on this site.

Every entry is written the same way: the situation, the task, what we did and what changed.

See the whole record

Define the improvement you need

Bring a representative dataset, the questions it must answer and the current bottleneck. We can agree how to measure quality, throughput and recovery.

See what it costs Get in touch →

Drowning in repetitive data work?

Ask about the decisions behind “Automated data processing in Python and PL/pgSQL”. You will speak with the people who can explain the work and assess your own project.

Explore our services

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Take this page with you

Contact card

Carefully Crafted With Love by D.

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