DATA
SATURDAYS

LABS

Speaker

BI & Power BI Engineer @ Lucient ONE41 INTEGRATION VALUES

More than 10 years in Microsoft “Data Realm”

Giving my little contribution to the community

PowerBIUG

Power Platform World Tour

PASS

thn0va community

POWER PLATFORM BOOTCAMP

DATA SATURDAYS

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Sponsor & Org

UNIVERSITÀ DEGLI STUDI DI PARMA

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LOBRA
A CULTURE OF INNOVATION EXCELLENCE

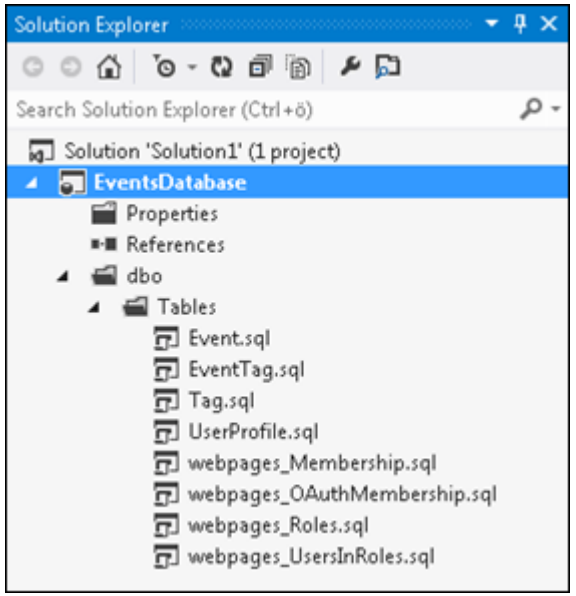
QUANTUMDATIS

Better database design with Local Development Experience for Azure SQL

- Local Development Experience for Azure SQL
- Why?
- What?
- How
- Demo
- Demo
- …
- Demo

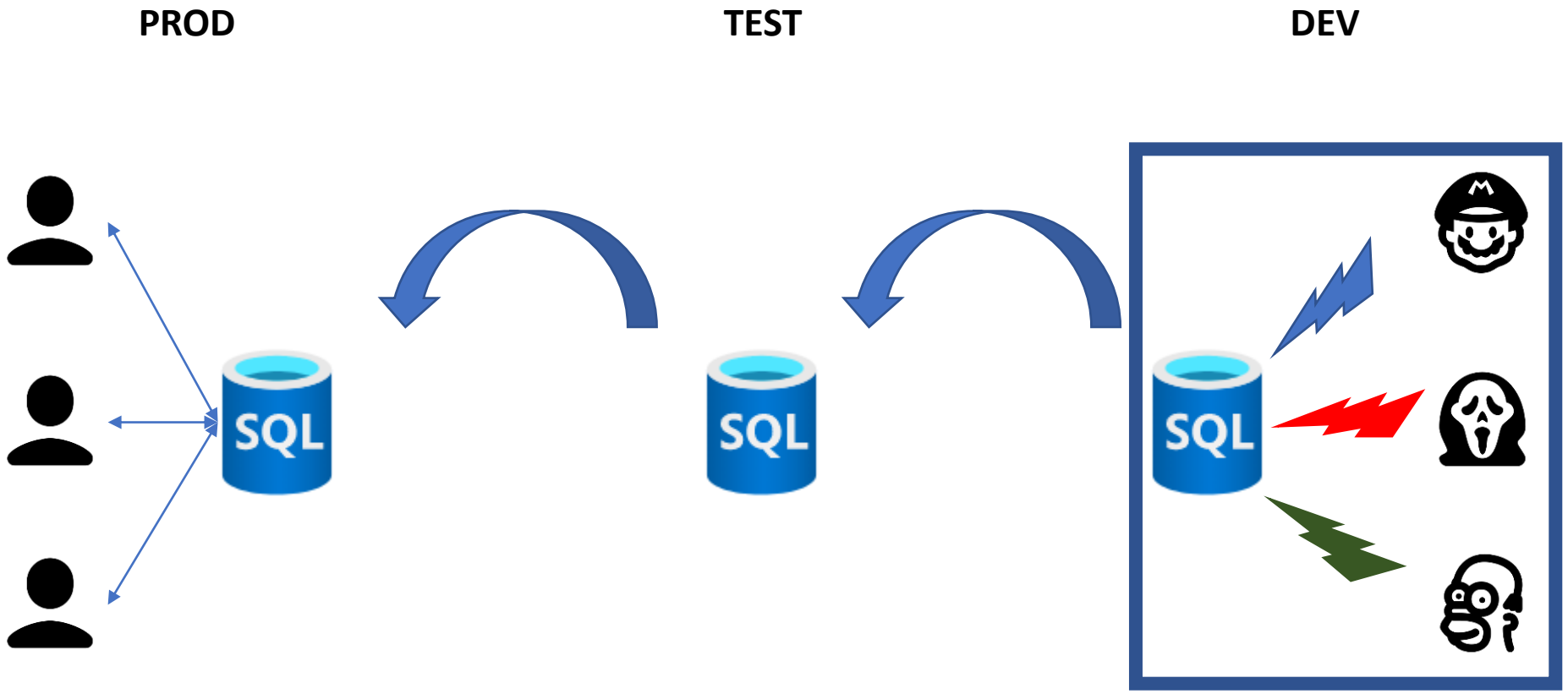
Before we start…

This is the only prerequisite for this session…



Why?

This scenario happens quite often



Benefits

Solves development concurrency on database

Eliminates instable/untested deploy on database

Enable offline development/testing

Improve segregation of duties

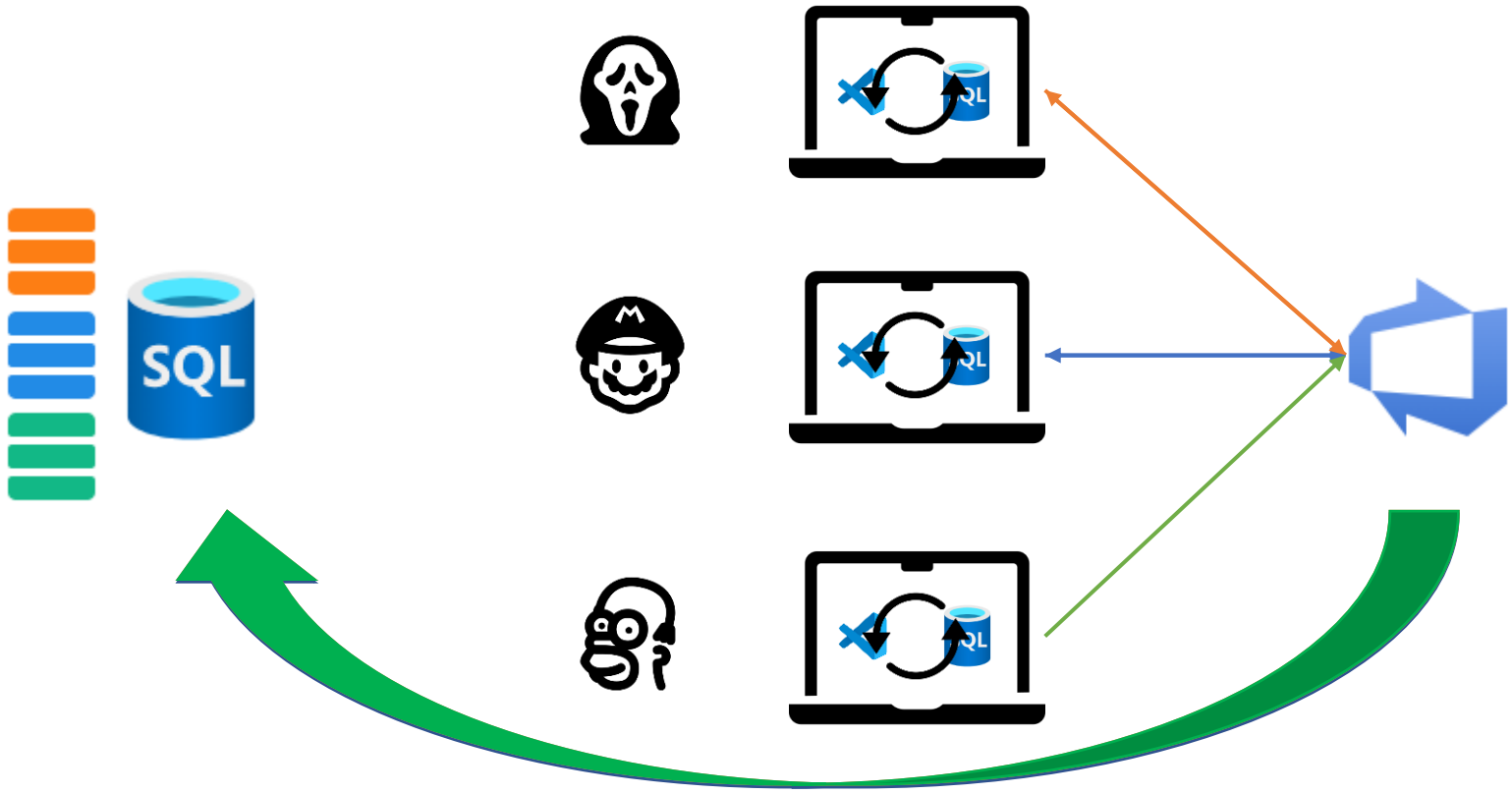
What?

Microsoft says…

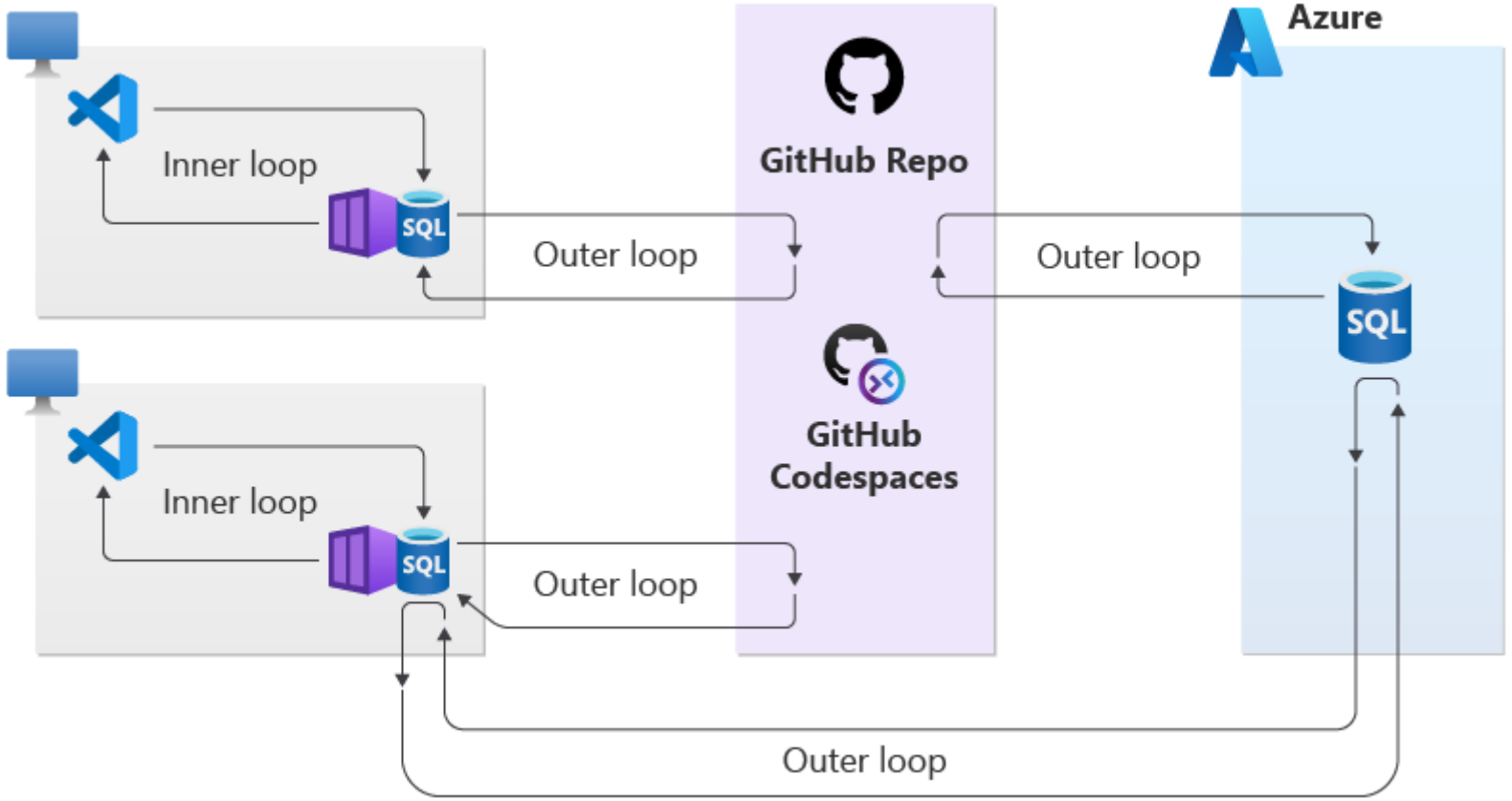
*"The local development experience uses the **emulator** as a runtime host for **Database Projects** that can be **published and tested locally** as part of a developer's inner loop."*

What is the local development experience for Azure SQL Database? - Azure SQL Database | Microsoft Docs

So what?

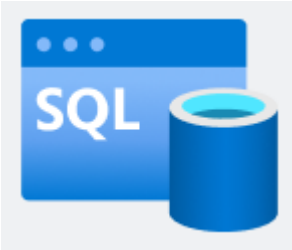


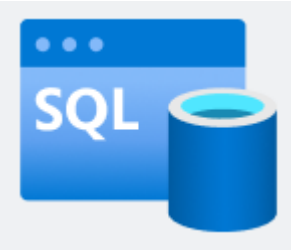
This makes much more sense now, doesn't it?



How?

Setup your environment (docs way)





mssql

What is docker? I’m not an expert but…

Docker is platform that allows **app creation**, **testing** and **distribution** easily and fast.

All you need is in the container.

Docker, why?

- Azure SQL Database emulator is a **containerized database** with **close fidelity** to the Azure SQL Database public service.
- The Azure SQL Database emulator is implemented as a **Docker container**
- Dev pulls the Azure SQL Database emulator from the **Microsoft Container Registry**

Emulator, not a copy…

Based on Azure SQL Edge therefore there’re some limitations:

- Spatial data types
- Memory-optimized tables in in-memory OLTP
- HierarchyID data type
- Full-text search
- Azure Active Directory Integration

Instead all of this talking, let’s do what?

Let’s head over to my laptop

Demo suggested tools

Pros

- ADS dev/execution/management/test in one tool

Cons

- No solution Tools
- Not ready yet
  - No properties for project
  - No easy file movement
  - No interface for database references
  - …

Useful links

- What is?
- Set up a local development environment for ASQL
- Limitations

Questions?

Grazie!!!