Better database design with Local SQL Better database designce for Azure SQL Development Experience



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Grazie ai nostri sponsor









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Giving my little contribution to the community













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Agenda

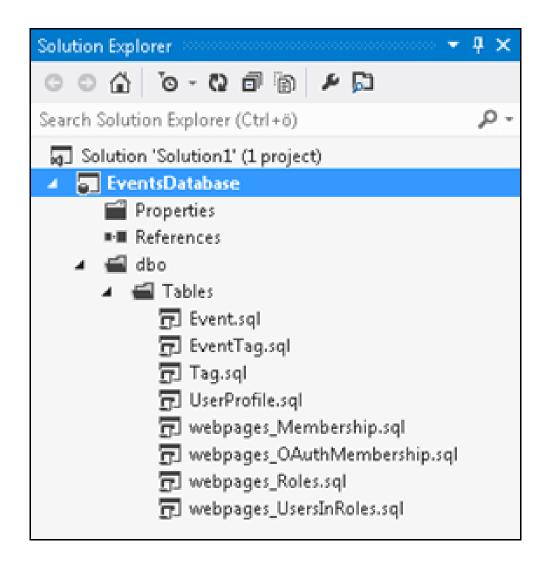
- Local Development Experience for Azure SQL
- Why?
- What?
- How
- Demo
- Demo
- •
- Demo



Before we start...



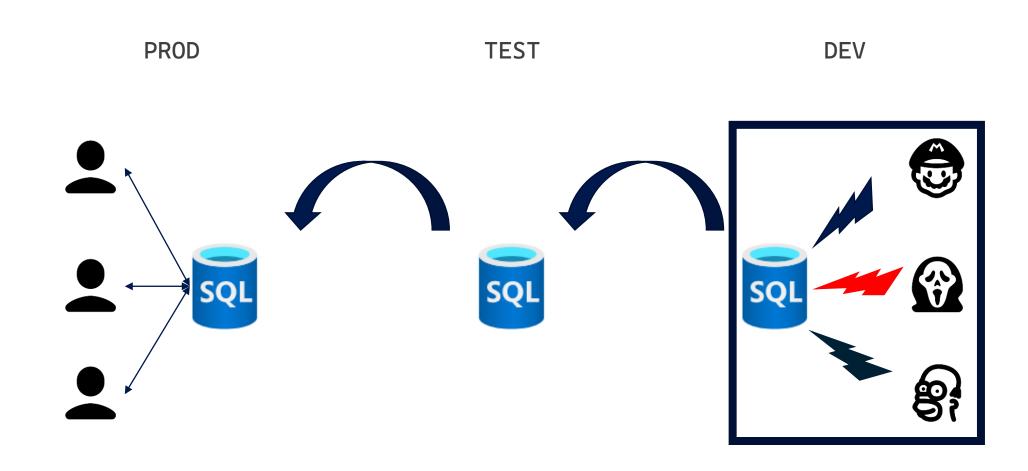
This is the only prerequisite for this session...



Muis



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



Mhat?



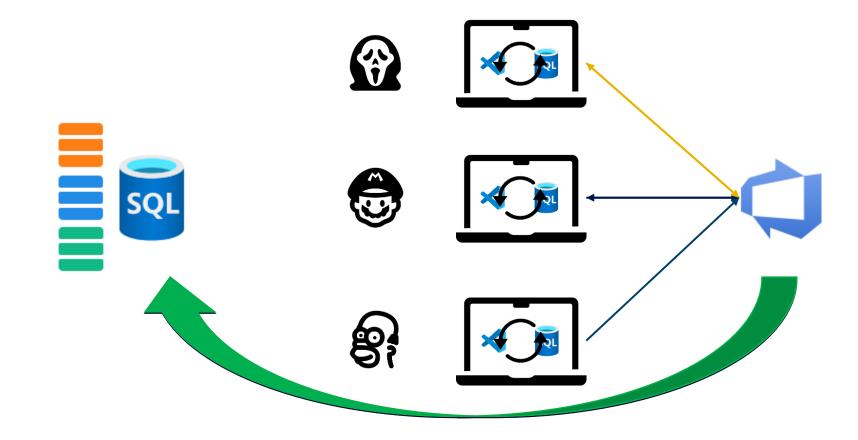
Microsoft says...

"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

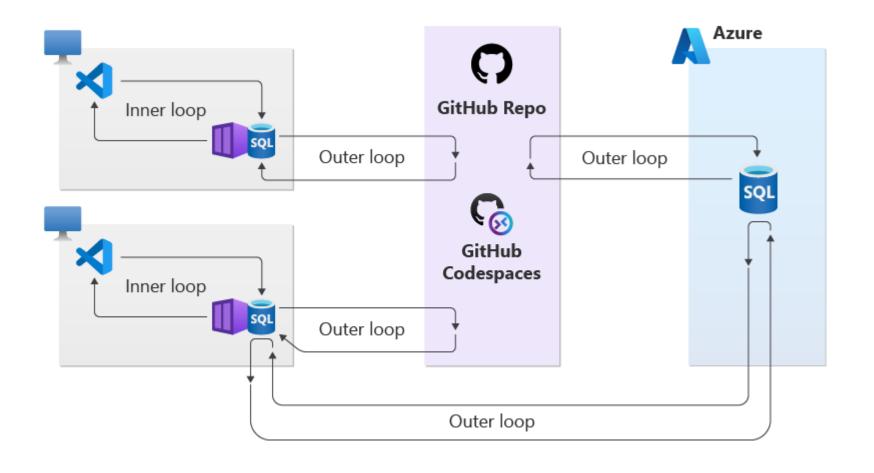


So what?





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





Hom;



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?



