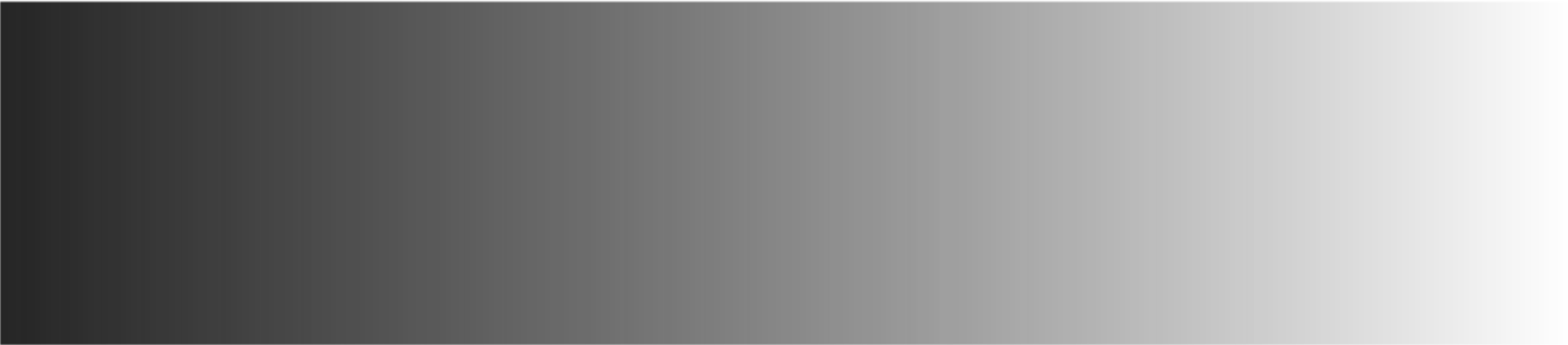
SQLGPT - Find & replace the needle in your SQL data stack by using Azure OpenAI:



A Hands-On Workshop

**Duration**: 1 Day [Remote / Onsite]

**Difficulty Level**: 300 - Advanced

**SQL-OpenAI Hack**

# Scenario

SQL DBs are great tools for documenting and analyzing reliably business critical data. However, for non-IT experts, writing the precise SQL queries may not be easy and take time away from main tasks. Repetitive questions could be answered more efficiently with the help of Azure OpenAI, which may free up time for the SQL admins. Azure OpenAI provides intuitive English or German based interfaces for interacting with data in a comfortable way. Just enter your question, and the SQL code is generated and executed for you.

Ein Bild, das Text, Screenshot, Schrift enthält.

Automatisch generierte Beschreibung

**Possible applications:**

* Enable everybody in your company to access data in SQL DBs, leading to faster data driven decision making.
* Get the history of the mechanical parts you are working on, and document which parts you replaced in the machine.
* Look up sales history and enter new data on e.g. a new product.

# Description

During this Azure SQL OpenAI hack, you will learn how

to build a solid foundation to leverage AI capabilities in

Azure. You will assess and migrate production

databases from your legacy on-premises SQL Server to

Azure SQL Managed Instance as your data source.



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Then you will deploy an Azure OpenAI application which

enables you to query structured data, write back data

and create graphs from the relational database without

any T-SQL skills but using natural language.

# Objectives

* Plan and understand the migration steps from SQL Server on-premises to Azure as door opener for AI capabilities on Azure.
* Identify migration blockers and understand data quality issues as a prerequisite for Azure OpenAI.
* Learn how to set up and deploy an OpenAI application to query, analyze and write back data to Azure SQL MI with natural language.

# Outcomes

* Practical hands-on experience with SQL Server migration tools and migration steps.
* Learn how to leverage Azure OpenAI and work with relational databases in natural language.

# Methodology

* **Ramp up** - Learn key concepts and principles needed to deploy your solution.
* **Deploy solution** - Deploy a functional, small-scale solution.
* **Evaluate and learn** - Evaluate the feasibility of the deployed solution and determine the solution needs at full scale.

# Requirements

## Participants

Participation of the following roles is recommended:

Cloud Administrator, Solution Architect, Database Administrator, Data Engineer, Data Scientist, IT Professional, Bus iness Analyst, Application Developer

## Requirements

* Understanding of the business objectives and requirements.
* Basic knowledge of relational databases and scripting

# Agenda

* Introduction
* Modul 1: Build data foundation by assessing and migrating databases to Azure SQL Family.
* Modul 2: Understand the prerequisites to leverage Azure OpenAI on SQL data source & Deploy Azure OpenAI application.
* Modul 3: Ensure data quality for Azure OpenAI and query from & persist new data to Azure SQL with natural language.

**For more information:** Please contact your Microsoft Representative for more details.



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