

# Roles and Permissions

Making your databases easier to manage

Nate Vanden Hoek

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Presentation Link: <Add Link>

# Who am I

Nate Vanden Hoek

- Principal Database Contractor for Vanden Dutch LLC
- Database Architect
- Database Administrator
- Database Developer
- Natabase

# What will we be covering

- Basics of permissions
- Basics of Roles
- How to convert a users permissions to a role
- How to use Roles to filter the data that a person can see

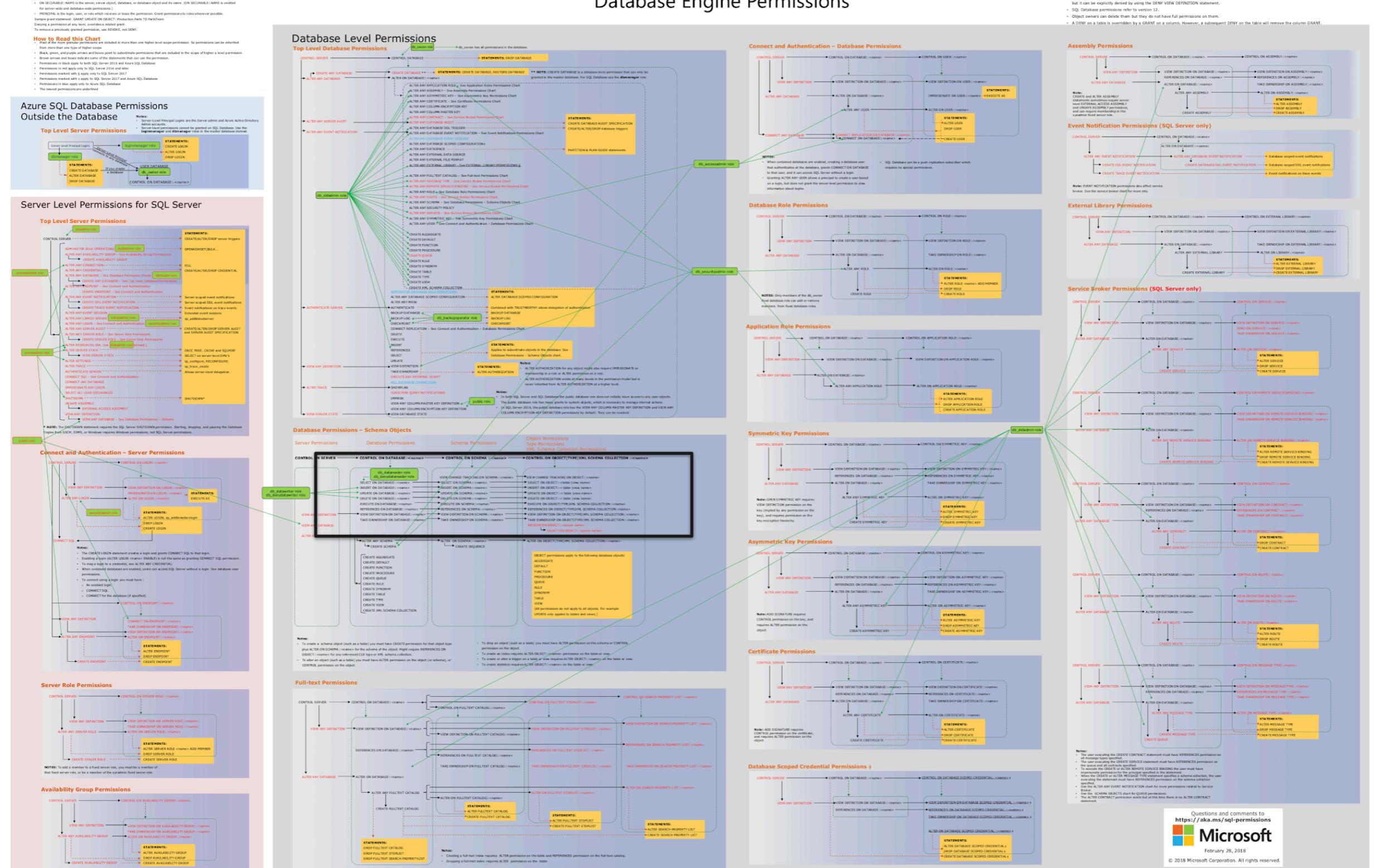
# Basics of Permissions

What items can get permissions?

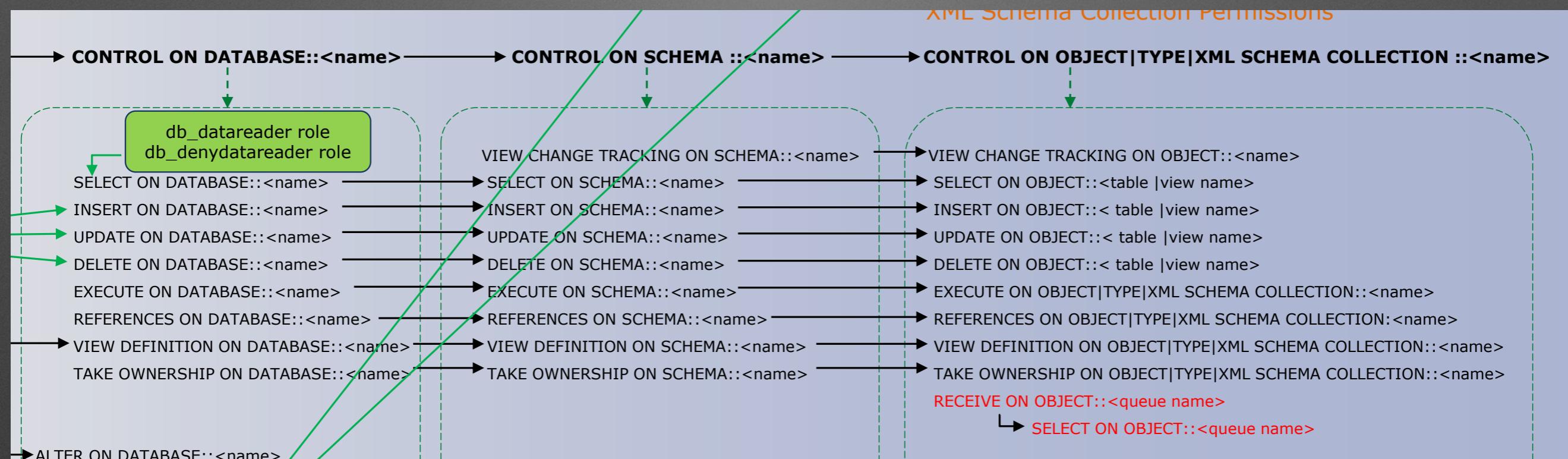
What permissions are out there?



# Microsoft SQL Server 2017 and Azure SQL Database Database Engine Permissions



<https://aka.ms/sql-permissions-poster>



# Basics of Permissions

What objects can get permissions?

What permissions are out there?

Grant and Deny

Revoke

# Basics of Permissions

What objects can get permissions?

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**DEMO**

# Role Basics

# **What is a Role?**

# Types of Roles

- Fixed Database Roles
- Application Role
- Database Role
  - User Role
  - Static Role

DEMO

# How to convert a users permissions to a role

Demo

# How to use Roles to filter the data that a person can see

Demo

# What we covered

- Basics of permissions
  - Grant/Deny/Revoke
- Basics of Roles
- How to convert a users permissions to a role
- How to use Roles to filter the data that a person can see
  - IS\_ROLEMEMBER
  - Security Policies

# Questions?

**Thank you for coming**

# Links from the Presentation

- <https://docs.microsoft.com/en-us/sql/relational-databases/security/permissions-database-engine>
- <https://aka.ms/sql-permissions-poster>
- <https://docs.microsoft.com/en-us/sql/t-sql/statements/execute-as-transact-sql>
- <https://docs.microsoft.com/en-us/sql/relational-databases/security/authentication-access/database-level-roles>
- <https://docs.microsoft.com/en-us/sql/relational-databases/security/row-level-security>
- <https://docs.microsoft.com/en-us/sql/t-sql/functions/is-rolemember-transact-sql>

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