#### Permission Syntax

AUTHORIZATION PERMISSION ON SECURABLE::NAME TO PRINCIPAL

AUTHORIZATION must be GRANT, REVOKE or DENY.PERMISSION is listed in the charts below.

Most permission statements have the format :

ON SECURABLE::NAME is the server, server object, database, or database object and its name. (ON SECURABLE::NAME is omitted

for server-wide and database-wide permissions.)

• PRINCIPAL is the login, user, or role which receives or loses the permission. Grant permissions to roles whenever possible.

Sample grant statement: GRANT UPDATE ON OBJECT::Production.Parts TO PartsTeam

Denying a permission at any level, overrides a related grant.

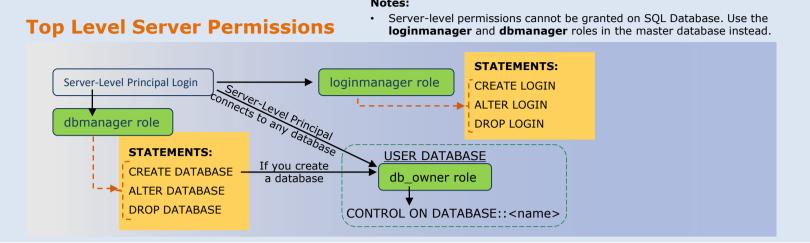
To remove a previously granted permission, use REVOKE, not DENY.

How to Read this Chart
Most of the more granular permissions are included in more than one higher level scope permission. So permissions can be inherited from more than one type of higher scope.

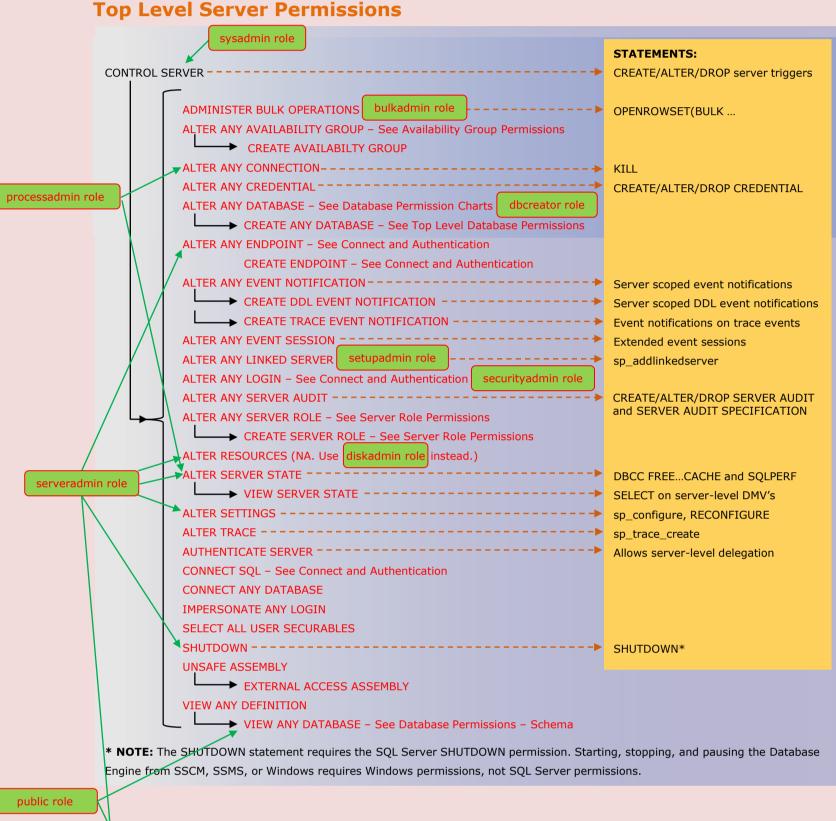
- Black, green, and purple arrows and boxes point to subordinate permissions that are included in the scope of higher a level permission.
  Brown arrows and boxes indicate some of the statements that can use the permission.
- Brown arrows and boxes indicate some of the statements that can use the permission
   Permissions in black apply to both SQL Server 2016 and Azure SQL Database
- Permissions in red apply only to SQL Server 2016Permissions in blue apply only to Azure SQL Database

#### The newest permissions are underlined

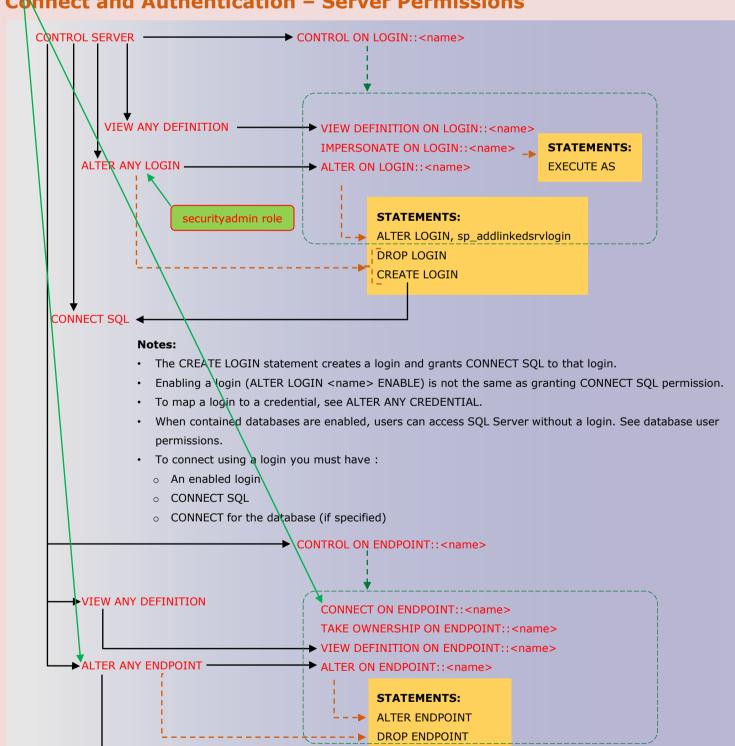
# Azure SQL Database Permissions Outside the Database



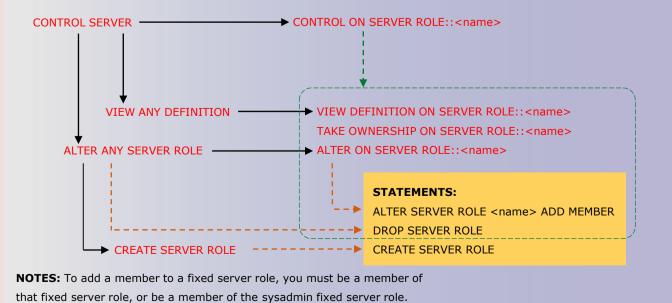
### Server Level Permissions for SQL Server



#### **Connect and Authentication – Server Permissions**



#### **Server Role Permissions**



REFERENCES ON DATABASE::<name> -----

ALTER ANY FULLTEXT CATALOG

STATEMENTS:

DROP FULLTEXT CATALOG

DROP FULLTEXT STOPLIST

DROP FULLTEXT SEARCH PROPERTYLIST

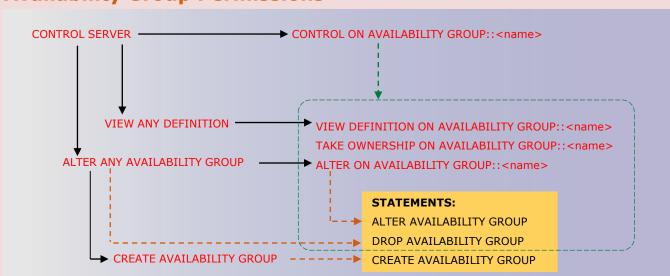
ALTER ANY DATABASE → ALTER ON DATABASE::<name>

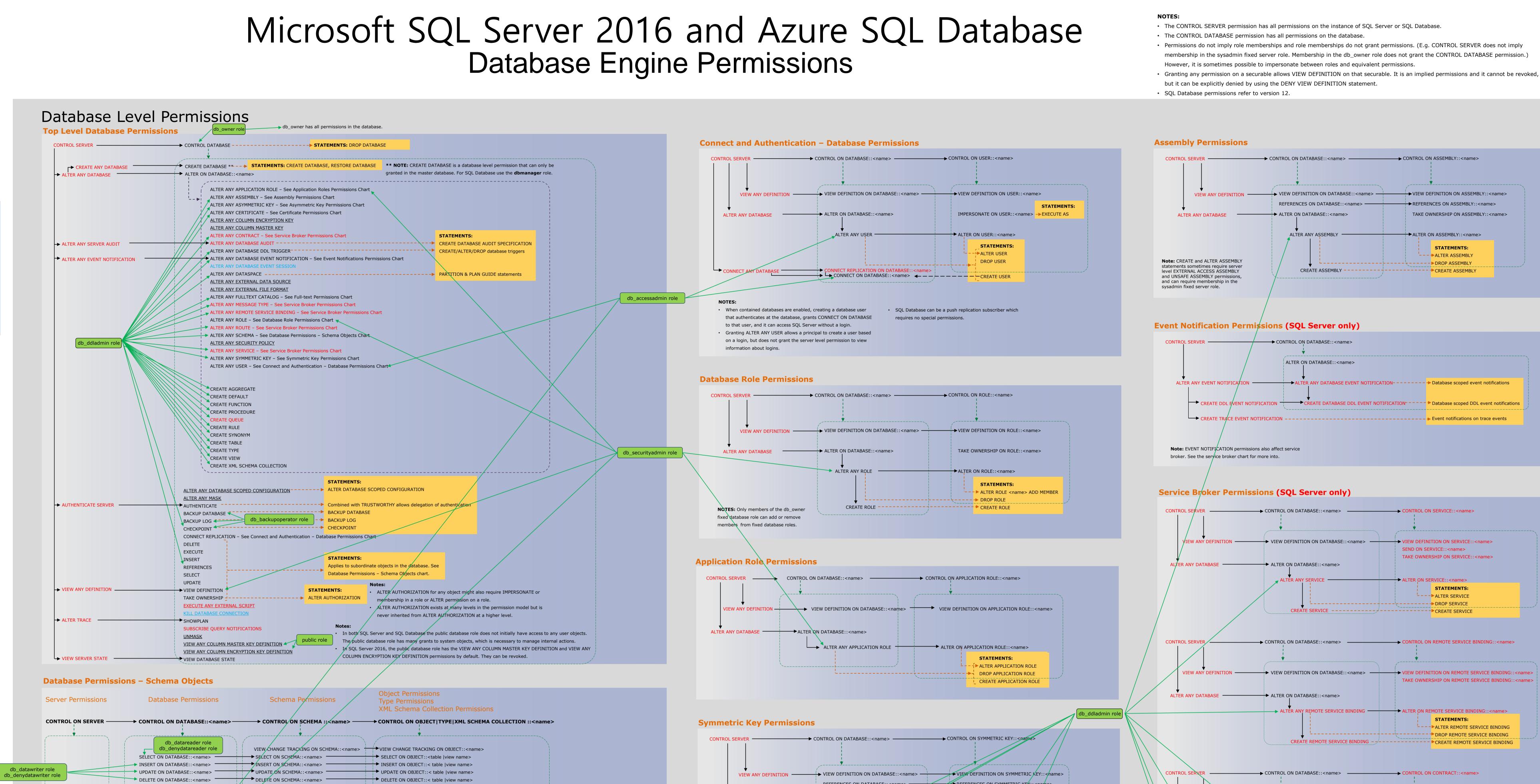
REFERENCES ON FULLTEXT CATALOG::<name>

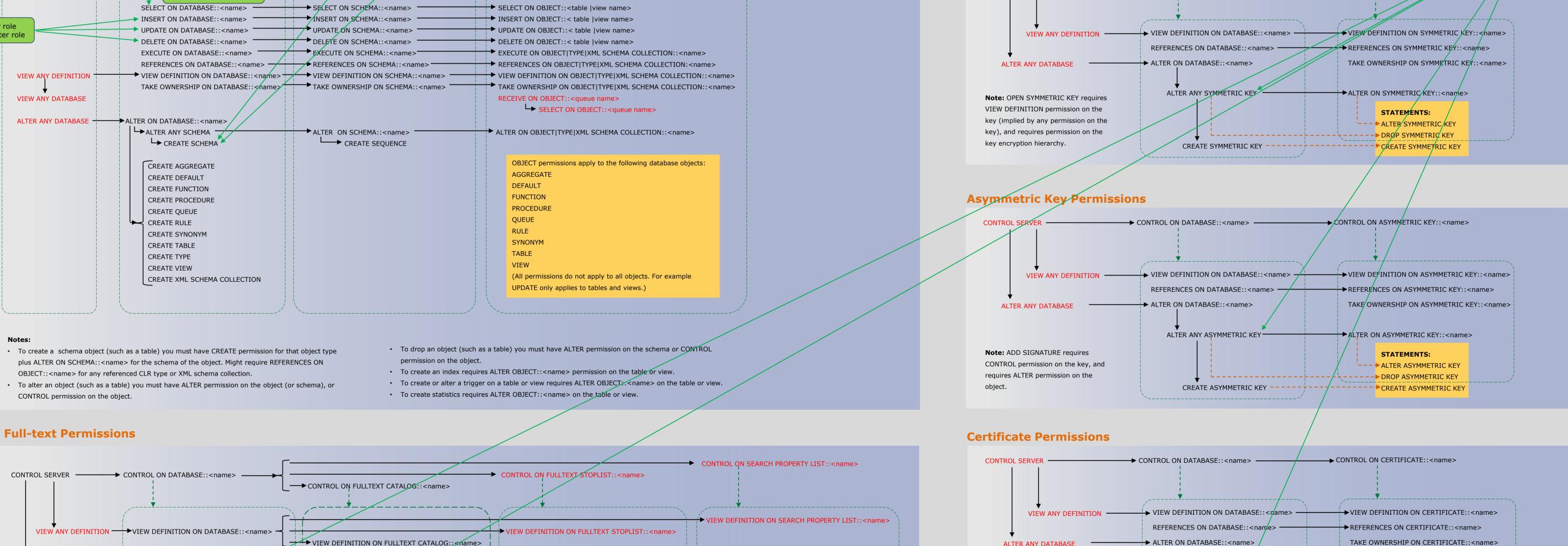
→ → ALTER ON FULLTEXT CATALOG::<name>

CREATE ENDPOINT ----- CREATE ENDPOINT

## **Availability Group Permissions**







REFERENCES ON SEARCH PROPERTY LIST::<name>

→ ALTER ON SEARCH PROPERTY LIST::<name>

STATEMENTS:

- ALTER SEARCH PROPERTY LIST

REFERENCES ON FULLTEXT STOPLIST::<name>

→ ALTER ON FULLTEXT STOPLIST::<name>

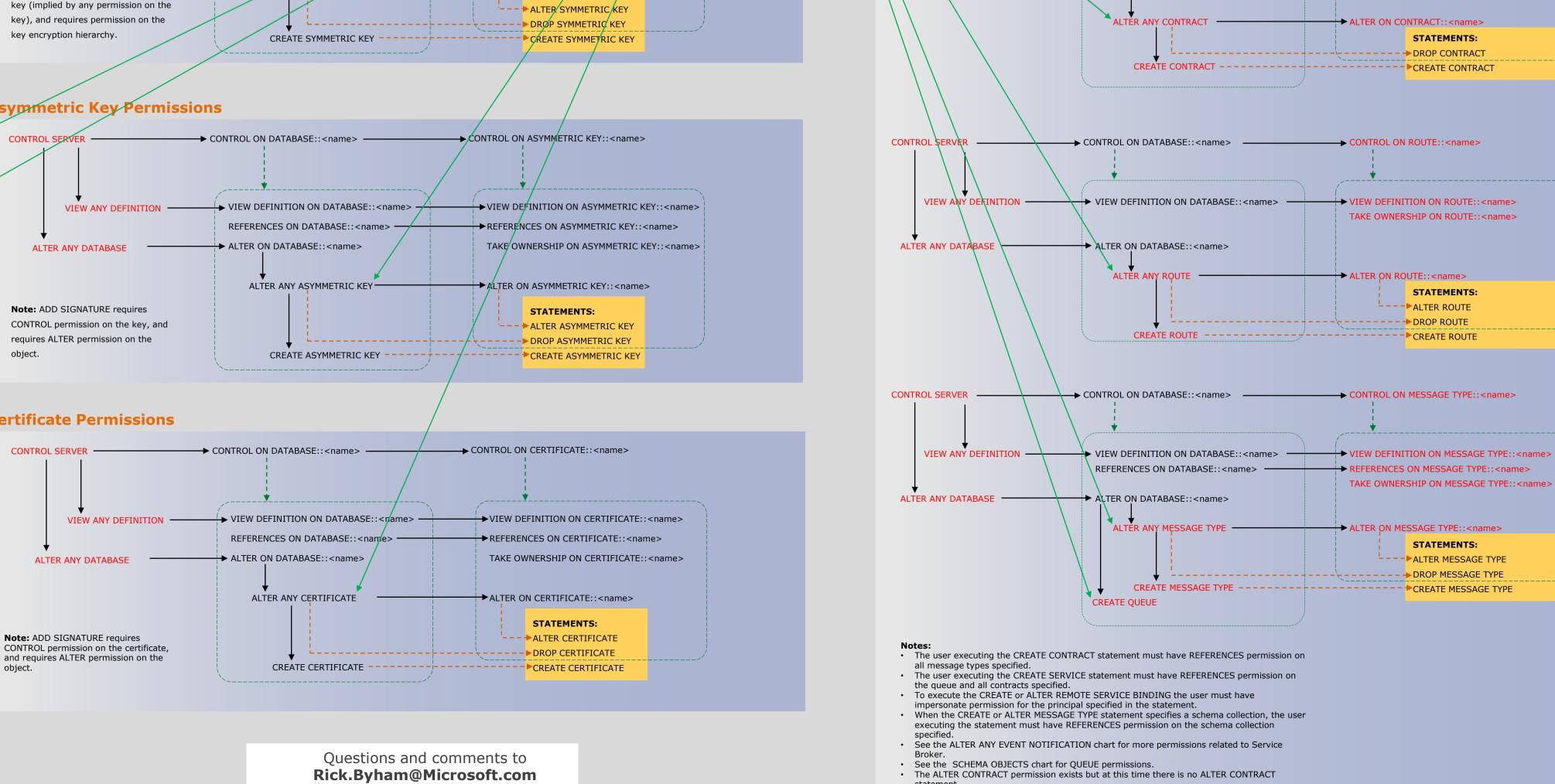
• Creating a full-text index requires ALTER permission on the table and REFERENCES permission on the full-text catalog.

Dropping a full-text index requires ALTER permission on the table.

STATEMENTS:

-- ALTER FULLTEXT STOPLIST

TAKE OWNERSHIP ON FULLTEXT CATALOG::<name> | TAKE OWNERSHIP ON FULLTEXT STOPLIST::<name> TAKE OWNERSHIP ON SEARCH PROPERTY LIST::<name>



VIEW ANY DEFINITION 

✓ VIEW DEFINITION ON DATABASE::<name> 

✓ VIEW DEFINITION ON CONTRACT::<name>

ALTER ANY DATABASE ALTER ON DATABASE::<name>

REFERENCES ON DATABASE::<name> → REFERENCES ON CONTRACT::<name>

Questions and comments to Rick.Byham@Microsoft.com

\*\*TICKOSOFT\*\*

May 09, 2016

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