

Windows Azure™ SQL Database Permissions

Permission Syntax

Most permission statements have the format :

`AUTHORIZATION PERMISSION ON SECURABLE::NAME TO PRINCIPAL;`

- AUTHORIZATION must be GRANT, REVOKE or DENY.
- PERMISSION is listed in the charts below.
- ON SECURABLE::NAME is the database, or database object and its name. Some permissions do not require ON SECURABLE::NAME.
- 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;`

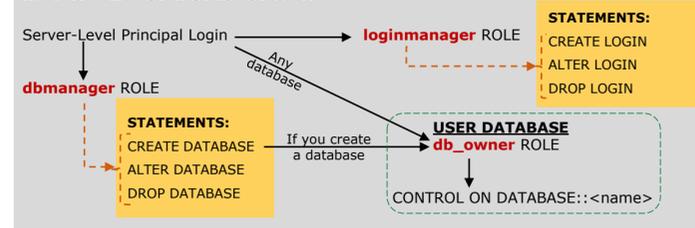
Denying a permission at any level, overrides a related grant.

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 blue 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.

Permissions Outside the Database



NOTES:

- The server-level principal login is created by the provisioning process and has all permissions on the SQL Database server.
- The CONTROL DATABASE permission and the members of the db_owner role have all permissions on the database.
- Permissions do not imply role memberships and role memberships do not grant permissions. (E.g. The CONTROL DATABASE permission does not imply membership in the db_owner fixed database role. Membership in the db_owner role does not grant the CONTROL DATABASE permission.) However, it is sometimes possible to impersonate between roles and equivalent permissions.
- Granting any permission on a securable allows VIEW DEFINITION on that securable. It is an implied permissions and it cannot be revoked, but it can be explicitly denied by using the DENY VIEW DEFINITION statement.

Questions and comments to Rick.Byham@Microsoft.com

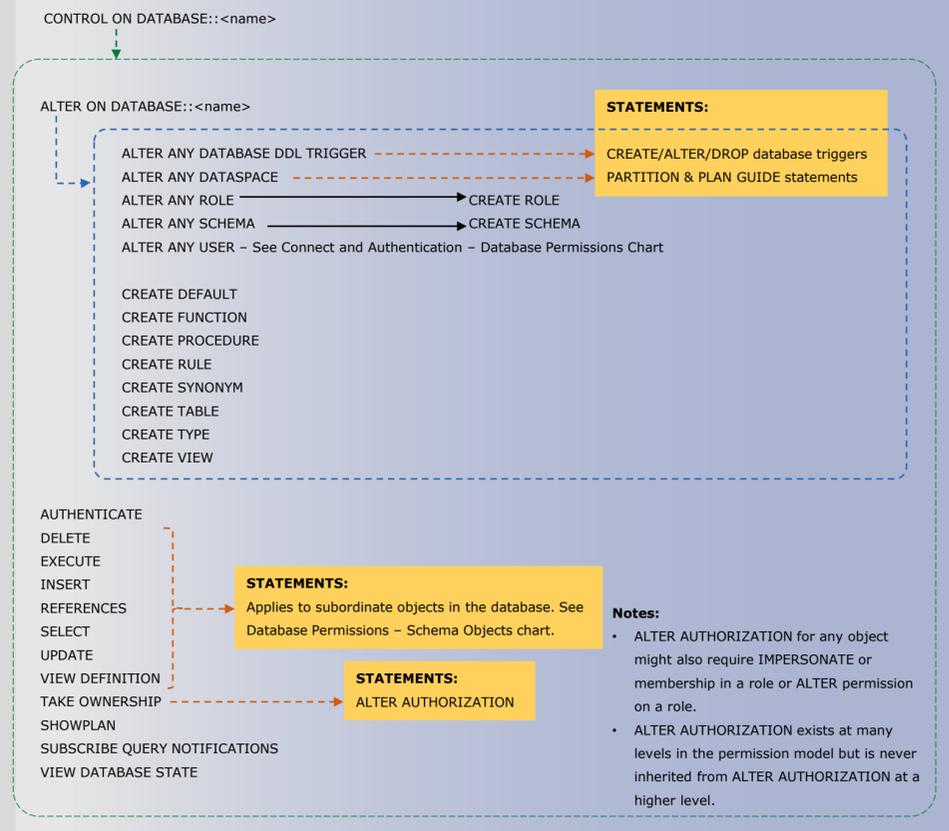


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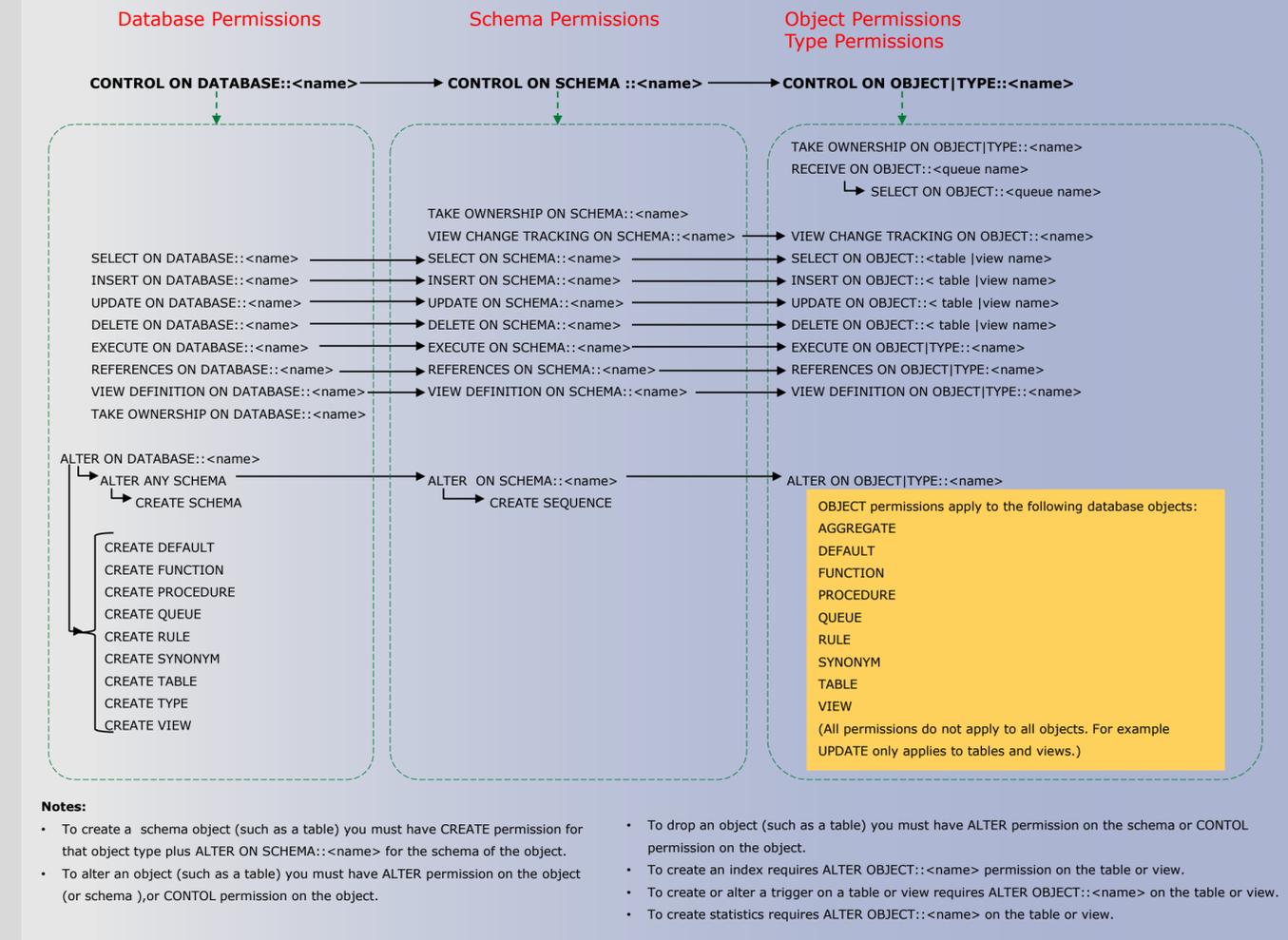
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Database Level Permissions

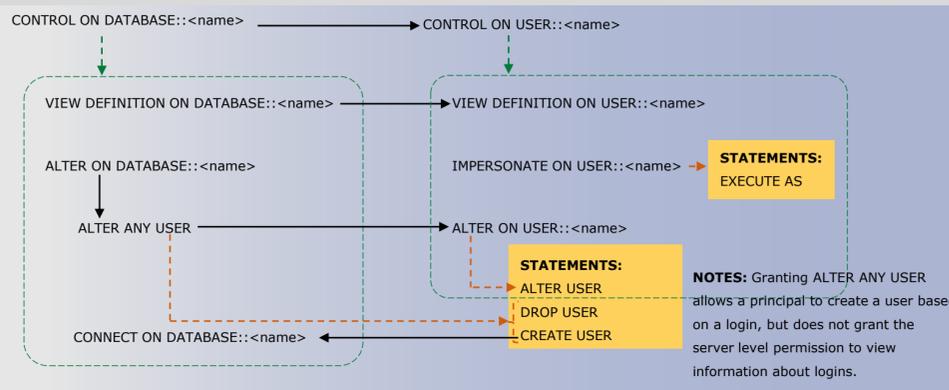
Top Level Database Permissions



Database Permissions – Schema Objects



Connect and Authentication – Database Permissions



Database Role Permissions

