DATA SECURITY: ROW LEVEL SECURITY(RLS)





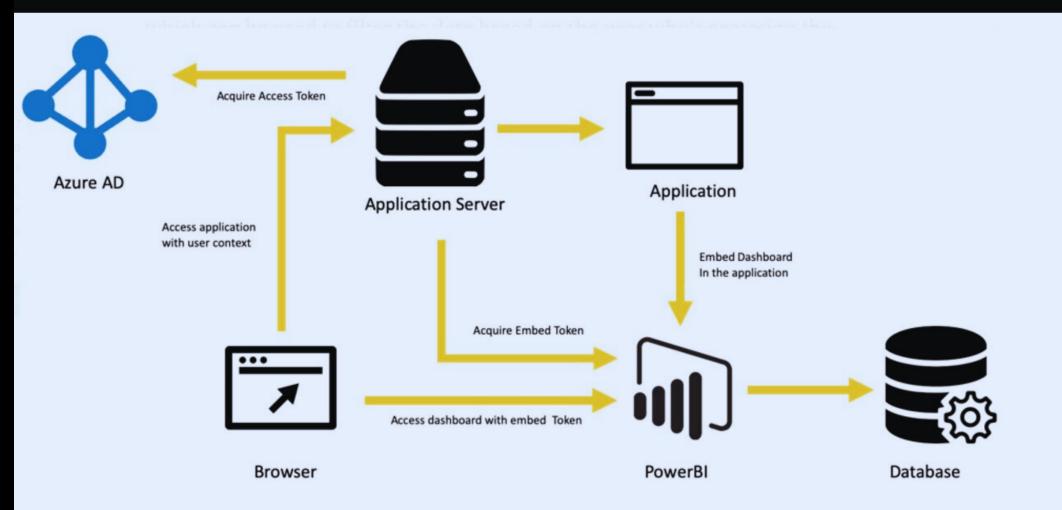
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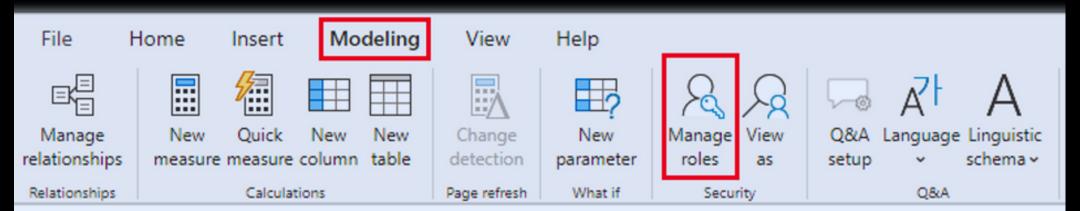


ROW-LEVEL SECURITY (RLS)

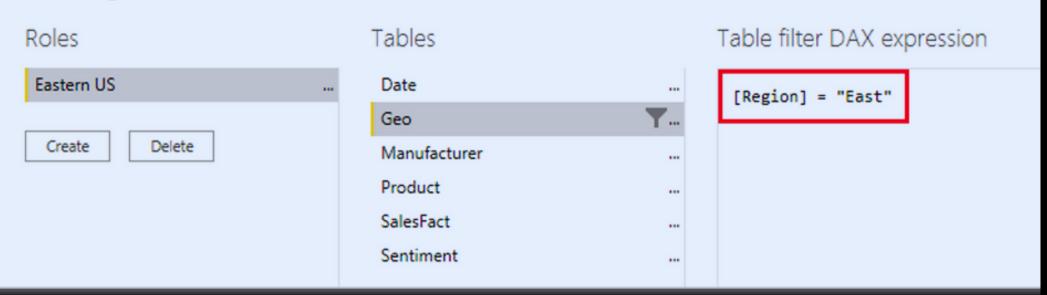
 RLS restricts access to data at the row level based on defined criteria.

 It ensures users only see authorized data, enforcing security policies and protecting sensitive information.





Manage roles

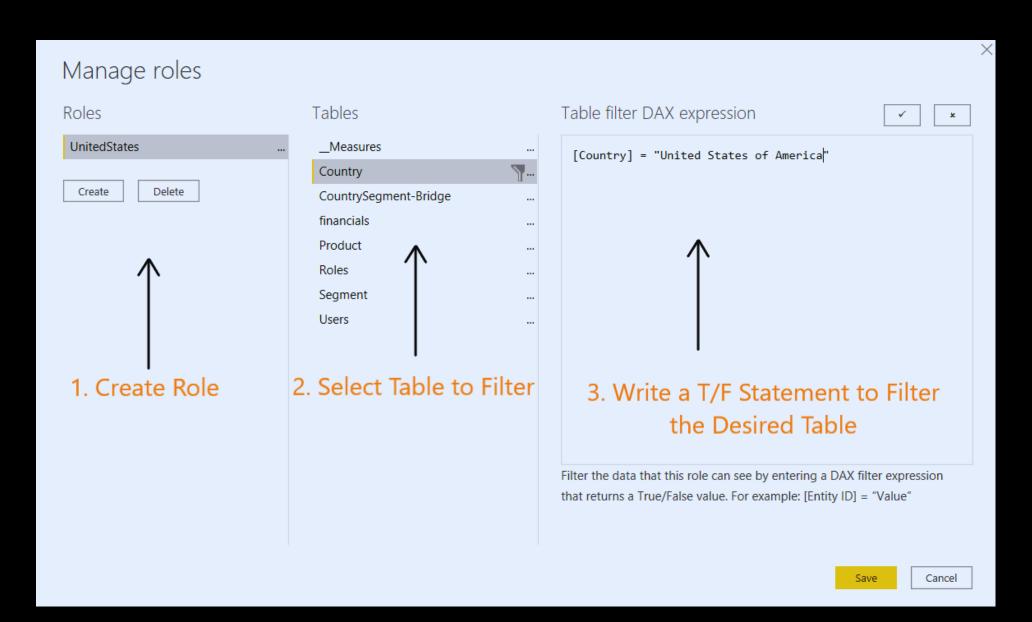


TYPES OF ROW-LEVEL SECURITY

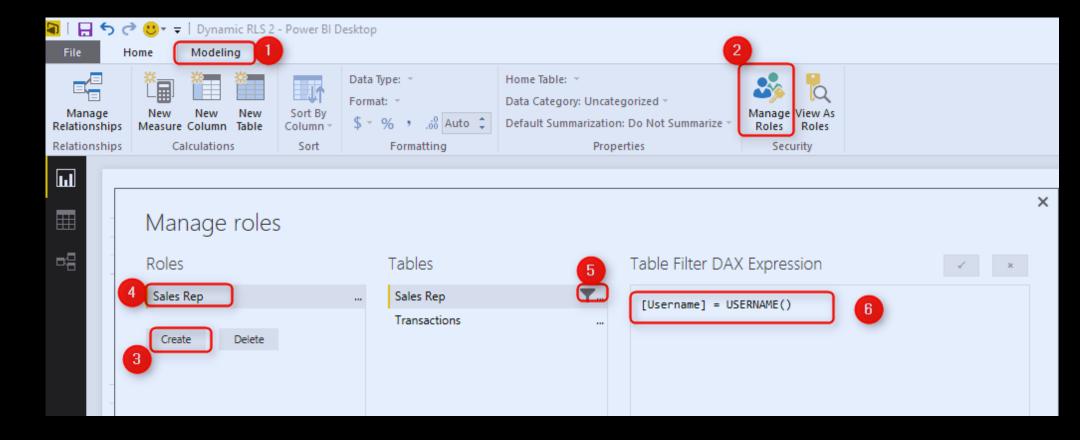
• Static RLS: Filters based on fixed criteria.

• Dynamic RLS: Filters based on dynamic criteria like user identity.

STATIC RLS



DYNAMIC RLS



DIFFERENCE BETWEEN STATIC AND DYNAMIC ROW-LEVEL SECURITY

• Static RLS uses fixed criteria, while dynamic RLS adapts based on user attributes or context.

ROLES AND ROLE-BASED FILTERS

 Roles are defined in Power BI Desktop or the Power BI Service. You can define roles based on user attributes or job functions.

 Role-based filters are created using DAX expressions to specify which rows of data users in each role can access. These filters are applied to tables in the data model.

SECURITY FILTERS

 Security filters are DAX expressions restricting data access.

 In RLS, they define which rows users in each role can access.

PROCESS OF ASSIGNING USERS TO ROLES

 Users are assigned to roles in Power BI Desktop or the Power BI Service.

 Role assignments are managed through the Power BI Service, where users are added to roles and removed as needed.

BEST PRACTICES FOR IMPLEMENTING RLS

- Regularly review and update RLS rules.
- Thoroughly test RLS to ensure correct data access.
- Use dynamic RLS for flexibility.

REPORT PERFORMANCE

• RLS can impact performance, especially for large datasets.

 Optimize by monitoring query execution and refining DAX expressions and data model design.

DATA PRIVACY AND COMPLIANCE

• RLS can impact performance, especially for large datasets.

 Optimize by monitoring query execution and refining DAX expressions and data model design.

TEST AND VALIDATION PROCESS

• Use test accounts representing different user roles.

• Utilize Power BI's View as Role feature to simulate user roles.

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