CREATE TABLE dbo.User\_Department\_Access (

UserName NVARCHAR(100) NOT NULL, -- AD/SQL username

DepartmentID INT NOT NULL, -- Key from Department table

AccessLevel NVARCHAR(50) NULL, -- Optional: Reader, Manager, etc.

PRIMARY KEY (UserName, DepartmentID)

);

| **UserName** | **DepartmentID** | **AccessLevel** |
| --- | --- | --- |
| [alice@company.com](mailto:alice@company.com) | 10 | Reader |
| [bob@company.com](mailto:bob@company.com) | 20 | Reader |
| [manager@company.com](mailto:manager@company.com) | 10 | Manager |
| [manager@company.com](mailto:manager@company.com) | 20 | Manager |

CREATE FUNCTION dbo.fn\_securitypredicate(@DeptID INT)

RETURNS TABLE

WITH SCHEMABINDING

AS

RETURN SELECT 1 AS fn\_securitypredicate\_result

WHERE EXISTS (

SELECT 1

FROM dbo.User\_Department\_Access uda

WHERE uda.DepartmentID = @DeptID

AND uda.UserName = SUSER\_SNAME()

);