

Comparison of Access translations: **Access Upsizing Wizard 2007**, SQL Server Migration Assistant 2008 with MUST (Standard & Professional)

Below are two tables comparing certain features that we know are essential in order to achieve the most efficient migration. The first table includes features that are focused mainly on the way that these four tools handle **data** in the upsizing process. The second table focuses on handling **queries**; displaying how these tools compare on translating the queries from Access to SQL Server including the percentage of successful conversion of queries.

Data				
Feature	Access Upsizing Wizard 2007	SQL Server Migration Assistant 2008 for Access V4.0	MUST	MUST+SQL
Supports SQL Server 2000	✓		✓	✓
Supports SQL Server 2005/Express	✓	✓	✓	✓
Supports SQL Server 2008/Express		✓	✓	✓
Supports Migration of Tables to Multiple Schemas		✓	✓	✓
Supports New SQL 2008 Data Type			✓	✓
Supports AutoNumber with Random Settings			✓	✓
Migrates Multiple Databases			✓	✓
Adds TIMESTAMP Columns	✓	✓	✓	✓
Adds Auditing Fields if Required			✓	✓
Adds Missing Foreign Key Indexing			✓	✓
Adds Missing Primary Keys to Tables			✓	✓
Adds BOOLEAN Field Defaults When Required	✓	✓	✓	✓
Normalises Attachment Data, Extract/Upload Attachment Data			✓	✓
Normalises Multi-value Data into New Tables			✓	✓
Handles Field Names With Spaces or Difficult Characters			✓	✓
Handles Unique Index Ignore Null Indexes			✓	✓
Handles Random AutoNumber Functions			✓	✓
Avoids Illegal Indexing on Memo Fields and Hyperlinks	Limited Support	Limited Support	✓	✓
Converts Field Validation	Limited Support	Limited Support	✓	✓
Converts Table Validation			✓	✓
Converts Replicated Databases, Removing Replication Fields			✓	✓
Fixes Bad Date Data When Mapping to DATETIME		✓	✓	✓

Fixes Bad Data With Null In Required Field			✓	✓
Fixes Relationships on Differing Field Sizes			✓	✓
Removes Duplicate Indexes			✓	✓
Removes Duplicate Primary Keys Indexes	✓	✓	✓	✓
Provides Reverse Engineering			✓	✓
Option to Generate Auditing Databases			✓	✓
Builds Database Roles and Schema Security			✓	✓
Generates TSQL Migration Scripts			✓	✓
Empty/Re-Migrate Commissioning of Data			✓	✓
Mechanism to Remove Inefficient Indexes			✓	✓
Warns of Cycles in Relationships			✓	✓
Replaces Tables with Linked Tables in Linked Front-end Applications				✓
Option to Block Zero-Length Field Checking			✓	✓
Uses Block Transfer Mode to Assist in Identifying Corruptions in Data			✓	✓

Queries				
Feature	Access Upsizing Wizard 2007	SQL Server Migration Assistant 2008 for Access V4.0	MUST	MUST+SQL
Translates to Views		✓		✓
Translates Append, Insert, Update, MakeTable Queries				✓
Translates Crosstab Queries to PIVOT				✓
Translates to Stored Procedures				✓
Translates SQL into Schemas				✓
Translates Access Functions into SQL Functions				✓
Translates SQL Standard Calculated Fields Based on Calculated Fields				✓
Translates DOMAIN Functions into Sub-queries				✓
Generates Support Library for Complex Access Functions				✓
Identifies and Creates TSQL Stub Functions for Custom VBA Functions				✓
Calculates Blocks of Depended Queries to Me Translated				✓

Handles Missing Tables in SQL Translation		✓		✓
Replaces Existing Queries with Linked Views and Stored Procedure Calls				✓
Benchmark Example on Independently Developed Database Containing 109 Queries, These are Not untypical Results		20% Conversion		89% Conversion

If you would like to test these features for yourself simply download our test database:

<http://www.upsizing.co.uk/downloads/testdatabase.zip>