Hosted Sites

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# Introduction

The following outlines the details of each database schema ([System](#h.9brzm5p0fu58), [Vertical Market](#h.3ns94c47mhav), [Client](#h.4v1za9u4v2r4)). Each schema is broken into core and additional sections.

Each section has a header with all defined tables hyperlinked by name, their Create/Update/Delete (CUD) logging status, and a short description.

Each table shows the column definitions with a description of the intent of each column. Primary Key columns are underlined. Required columns are *italicized*.

The schema defined here is the same schema defined in the [Visio diagram](https://drive.google.com/open?id=0B3gMf4HF1EdiSlY3bk1vNWZ4dUk), and should be referenced for a clear understanding of table relationships.

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# System Schema

They system schema is broken into three parts: [Core](#h.2p52ircqf7z7), [Reports](#h.idfw2qwoe6cc), and [Template](#h.lftocevvojzm).

[Core](#h.2p52ircqf7z7) contains the main tables that define the client entities as well as their default settings and configuration.

[Reports](#h.idfw2qwoe6cc) contains the tables that define available system reports, when to run them, and who to deliver them to.

[Template](#h.lftocevvojzm) contains the tables that define the templates, pages and features available for any client to use in their hosted site solution.

## 

## 

## Core Schema

The core schema contains a handful of tables that are essential client identification, user profile and roles storage, and basic site functionality.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [VerticalMarkets](#h.to06wr3g900d) | Yes | Contains the main vertical market details such as id, name, connection string name, database instance. |
| [Clients](#h.cyuwlz4rovps) | Yes | Contains the main client details such as id, name, [VerticalMarket](#h.to06wr3g900d) affiliation, connection string name, database instance. |
| [ClientDns](#h.q89fnuxos7kn) | Yes | Contains the recognized DNS entries for any particular client. This will be read out of the request headers to determine appropriate site context. |
| [Users](#h.9c73rxp8r85j) | Yes | Contains user account information. ASP.NET Identity 2.0 will utilize this table for user authentication. |
| [ClientUsers](#h.w09zm9br2w0a) | Yes | Contains [Client](#h.cyuwlz4rovps) to [User](#h.9c73rxp8r85j) associations. A [User](#h.9c73rxp8r85j) can only access clients they are associated to. |
| [Roles](#h.z7hr2rjnsiu5) | Yes | Contains global [Roles](#h.z7hr2rjnsiu5) available for the system, such as *System Administrator* and *Authenticated User*. |
| [UserRoles](#h.hn1v2ty6w8vz) | Yes | Contains [User](#h.9c73rxp8r85j) to [Role](#h.z7hr2rjnsiu5) associations. Each [User](#h.9c73rxp8r85j) must be associated to minimally one [Role](#h.z7hr2rjnsiu5) - *Authenticated User*. |
| [CUDHistory](#h.o54v45wya53y) | No | Contains an audit trail of all create, update, and delete operations against auditable tables.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.o54v45wya53y) and [CUDHistoryData](#h.qi4g4devooif) tables. |
| [CUDHistoryData](#h.qi4g4devooif) | No | Contains the change data pertaining to a [CUDHistory](#h.o54v45wya53y) entity.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.o54v45wya53y) and [CUDHistoryData](#h.qi4g4devooif) tables. |
| [ErrorLog](#h.hf5ik9rk3yvg) | No | Allows logging of any error state or exception that terminates processing of a request, thread, or service, such as code generated exceptions or an invalid context (such as invalid path or query string parameter).  **NOTE:** Client specific exceptions are logged here only in the event that the client database could not be determined or reached. |

### VerticalMarkets

Contains the main vertical market details such as id, name, connection string name, database instance.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *VerticalMarketId* | int | Primary key identifier of the vertical market. |
| *MarketName* | nvarchar(200) | Display name of the vertical market. |
| *ConnectionStringName* | varchar(200) | Name of the connection string (defined in application and web config files) to use for the vertical market. |
| *DatabaseName* | varchar(200) | Name of the database instance (not server instance) for the vertical market. Will be injected into the connection string associated to the vertical market. |
| MarketDescription | nvarchar(400) | Description of the vertical market. May be used in a help context such as a tooltip. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### Clients

Contains the main client details such as id, name, [VerticalMarket](#h.to06wr3g900d) affiliation, connection string name, database instance.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientId* | int identity | Primary key identifier for the client. |
| *ClientName* | nvarchar(200) | Display name of the client. |
| *ConnectionStringName* | varchar(200) | Name of the connection string (defined in application and web config files) to use for the client. |
| *DatabaseName* | varchar(200) | Name of the database instance (not server instance) for the client. Will be injected into the connection string associated to the client. |
| *VerticalMarketId* | int | Identity of the [VerticalMarket](#h.to06wr3g900d) the client is associated with. |
| ClientDescription | nvarchar(400) | Description of the client. May be used in a help context such as a tooltip. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDns

Contains the recognized DNS entries for any particular client. This will be read out of the request headers to determine appropriate site context.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDnsId* | int identity | Primary key identifier for the [ClientDns](#h.q89fnuxos7kn) entry. |
| *ClientId* | int | Identifier of the client to which this dns entry belongs. |
| *Dns* | varchar(255) | Dns entry to recognize as belonging to the client. There must be a unique index on this column, and *ClientId* must be an include column for this index. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### Users

Contains user account information. ASP.NET Identity 2.0 will utilize this table for user authentication.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *UserId* | int identity | Primary key identifier of the user account. |
| Email | nvarchar(256) | Email address of the user. This should be the same as *UserName*. |
| *EmailConfirmed* | bit | Boolean determining if the *Email* ownership has been confirmed.  **NOTE:** This column should have a default constraint set to zero (0). |
| PasswordHash | nvarchar(max) | Hash of the password, used for authentication validation. |
| SecurityStamp | nvarchar(max) | Security stamp of the account, used for authentication validation. |
| PhoneNumber | nvarchar(max) | Phone number of the user. |
| *PhoneNumberConfirmed* | bit | Boolean determining if *PhoneNumber* ownership has been confirmed via SMS messaging.  **NOTE:** This column should have a default constraint set to zero (0). |
| *TwoFactorEnabled* | bit | Boolean determining if two factor authentication is enabled. If true (1), either an *Email* or *PhoneNumber* entry must be confirmed for the user to authenticate.  **NOTE:** This column should have a default constraint set to zero (0). |
| LockOutEndDateUtc | datetime | Utc date and time of the last account lock out. |
| *LockoutEnabled* | bit | Boolean determining if the user account can be locked out.  **NOTE:** This column should have a default constraint set to zero (0). |
| *AccessFailedCount* | int | Most recent count of concurrent failed authentication attempts.  **NOTE:** This column should have a default constraint set to zero (0). |
| *UserName* | nvarchar(256) | User identification used for authentication. This should be the same as the *Email* address for now.  **NOTE:** There should be a unique index or constraint on this column. |
| FirstName | nvarchar(100) | Optional first name of the user. |
| LastName | nvarchar(100) | Optional last name of the user. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientUsers

Contains [Client](#h.cyuwlz4rovps) to [User](#h.9c73rxp8r85j) associations. A [User](#h.9c73rxp8r85j) can only access clients they are associated to.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientId* | int | First part composite primary key identifying the [Client](#h.80vnvzmn967q) portion of the association. |
| *UserId* | int | Second part composite primary key identifying the [User](#h.9c73rxp8r85j) portion of the association. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### Roles

Contains global [Roles](#h.z7hr2rjnsiu5) available for the system, such as *System Administrator* and *Authenticated User*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *RoleId* | int | Primary key identifier of the [Roles](#h.z7hr2rjnsiu5) entity. |
| *Name* | nvarchar(256) | Descriptive name of the role.  **NOTE:** There should be a unique index or constraint on this column. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### UserRoles

Contains [User](#h.9c73rxp8r85j) to [Role](#h.z7hr2rjnsiu5) associations. Each [User](#h.9c73rxp8r85j) must be associated to minimally one [Role](#h.z7hr2rjnsiu5) - Authenticated User.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *UserId* | int | First part composite key identifying the [Users](#h.9c73rxp8r85j) entity of the association. |
| *RoleId* | int | Second part composite key identifying the [Roles](#h.z7hr2rjnsiu5) entity of the association. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### CUDHistory

Contains an audit trail of all create, update and delete operations against auditable tables.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.o54v45wya53y) and [CUDHistoryData](#h.qi4g4devooif) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int identity | Primary key identifier of the [CUDHistory](#h.o54v45wya53y) entity. |
| *TableName* | nvarchar(128) | Name of the table the CUD operation occurred on. |
| *Key* | int | Primary key identifier of the row the CUD operation occurred on. |
| SecondKey | nvarchar(200) | Secondary key identifier of the row the CUD operation occurred on. *NULL* if there is no secondary key. |
| ThirdKey | nvarchar(200) | Tertiary key identifier of the row the CUD operation occurred on. *NULL* if there is no tertiary key. |
| *CUDType* | char(1) | Character representing the type of update: *C* for create, *U* for update, *D* for delete. |
| *UtcCUDDate* | datetime | Utc date and time of the update. |
| *BatchId* | uniqueidentifier | Unique identifier for the update. Used to identify which rows were part of the same CUD operation.  **NOTE:** A new id should be generated at the beginning of any procedure or trigger performing any audit logging and used for each row inserted during that operation. |
| UserId | int | Identity of the [User](#h.9c73rxp8r85j) who performed the CUD operation. |

### CUDHistoryData

Contains the change data pertaining to a [CUDHistory](#h.o54v45wya53y) entity.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.o54v45wya53y) and [CUDHistoryData](#h.qi4g4devooif) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int | First part composite key identifying the [CUDHistory](#h.o54v45wya53y) entity this change data belongs to. |
| *ColumnName* | nvarchar(128) | Second part composite key identifying the column this change data is for. |
| *SqlDbType* | int | Type of data stored in the column. Should be one of the values available from the *System.Data.SqlDbType* enumeration.. |
| OldValue | nvarchar(max) | Original value before the CUD operation. Always *NULL* for create operations. |
| NewValue | nvarchar(max) | New value after the CUD operation. Always *NULL* for delete operations. |

### ErrorLog

Allows logging of any error state or exception that terminates processing of a request, thread, or service, such as code generated exceptions or an invalid context (such as invalid path or query string parameter).

**NOTE:** Client specific exceptions are logged here only in the event that the client database could not be determined or reached.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ErrorLogId* | int identity | Primary key identifier of the [ErrorLog](#h.2usu0hry7oyx) entity. |
| *ErrorCode* | int | Error code identifying the type of error that stopped processing of the request. Examples might be context validation errors (invalid identifier or external identifier), malformed paths, not found errors (context identifiers such as taxonomy association id not found in client db), unhandled exceptions, etc.  **NOTE:** The available values should be defined in an enumeration, as well as included in a scalar user defined function used as part of a check constraint for this column to ensure data integrity. |
| *ErrorUtcDate* | datetime | Utc date and time of the error occurrance. |
| *Priority* | int | Priority level of the exception. Inherited from Enterprise Library. |
| *Severity* | nvarchar(32) | Severity of the exception. Inherited from Enterprise Library. |
| *Title* | nvarchar(256) | Title of the exception handling policy. Inherited from Enterprise Library. |
| *MachineName* | nvarchar(32) | Name of the machine reporting the exception. Inherited from Enterprise Library. |
| *AppDomainName* | nvarchar(512) | Name of the application domain reporting the exception. Inherited from Enterprise Library. |
| *ProcessID* | nvarchar(256) | ID of the process reporting the exception. Inherited from Enterprise Library. |
| *ProcessName* | nvarchar(512) | Name of the process (usually executable + path) reporting the exception. Inherited from Enterprise Library. |
| ThreadName | nvarchar(512) | Name of the thread the exception occurred on. As a thread only has a name if explicitly set, this is usually *NULL*. Inherited from Enterprise Library. |
| Win32ThreadId | nvarchar(128) | ID of the thread the exception occurred on. Inherited from Enterprise Library. |
| EventId | int | Event ID of the exception. Equivalent to the event id of an event log entry. Inherited from Enterprise Library. |
| ClientId | int | Identifies the [Client](#h.80vnvzmn967q) context this exception occurred in. *NULL* if client context could not be determined.  **NOTE:** This column does NOT have a foreign key constraint to the [Clients](#h.80vnvzmn967q) table, so client data can be deleted and/or changed without affecting the logging function. |
| SiteActivityId | int | If set, identifies which [SiteActivity](#h.i3pfkasc0ar4) entity the error belongs to. |
| Message | nvarchar(1500) | Short message describing the error, such as context validation error details. Inherited from Enterprise Library. |
| FormattedMessage | nvarchar(max) | Error details such as exception message and stack trace. Inherited from Enterprise Library. |

## 

## Reports Schema

The reports schema contains the tables that define the available system reports, scheduled reports, and report recipients.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [Reports](#h.idfw2qwoe6cc) | No | Defines the global system reports available for each client. |
| [ReportSchedule](#h.b2d87dw67nrk) | Yes | Defines any scheduled reports, their reporting interval, last and next run dates. |
| [ReportScheduleRecipients](#h.jwz19ywb1cr7) | Yes | Defines the recipients of a specific scheduled report. |

### Reports

Defines the global system reports available for each client.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ReportId* | int identity | Primary key identifier of the report entity. |
| *ReportName* | nvarchar(200) | Name of the report. |
| ReportDescription | nvarchar(400) | Description of the report. |

### ReportSchedule

Defines any scheduled reports, their reporting interval, last and next run dates.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ReportScheduleId* | int | Primary key identifier of the scheduled report. |
| *ReportId* | int | Identifies the [Report](#h.idfw2qwoe6cc) this schedule is for. |
| *ClientId* | int | Identifies the [Client](#h.80vnvzmn967q) this schedule is for. |
| *IsEnabled* | bit | Boolean flag that determines if the report is enabled. |
| *FrequencyType* | int | Defines the type of frequency for this report. Available types should be defined in an enumeration as follows:   1. Run Once 2. Every X Days 3. Weekly 4. Monthly 5. Quarterly 6. Bi-Annually 7. Annually |
| *FrequencyInterval* | int | Defines the interval to be used for determining next run date. Interval value is dependent on the FrequencyType setting with the allowed values dependent on the type:   * Run Once   + Must be 0. * Every X Days   + Must be greater than 0. * Weekly   + Must be between 1 and 7. * Monthly   + Must be between 1 and 31. * Quarterly   + Must be 0. * Bi-Annually   + Must be 0. * Annually   + Must be 0.   **NOTE:** There should be a check constraint on the table that validates the type and interval based on the allowed values defined here. Please see the POC for details. |
| UtcFirstScheduledRunDate | smalldatetime | First scheduled date for the report to run. |
| UtcLastScheduledRunDate | smalldatetime | The date the report was scheduled to run when it was run last. Used to determine next date. |
| UtcLastActualRunDate | datetime | The actual date and time the report ran last. May not be the same as the last scheduled report, in the case of a report being missed or skipped due to an error. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |
| UtcNextScheduledRunDate | smalldatetime computed | Computed persisted column that calculates the next run date based off of the *FirstScheduledRunDate*, *LastScheduledRunDate*, *FrequencyeType*, and *FrequencyInterval*.  **NOTE:** There should be a deterministic udf scalar function that calculates this value. Please see the POC for details. |
| FrequencyDescription | varchar(200) computed | Computed persisted column that describes the schedule pattern in easy to understand terms.  **NOTE:** There should be a deterministic udf scalar function that calculates this value. Please see the POC for details. |

### ReportScheduleRecipients

Defines the recipients of a specific scheduled report.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ReportScheduleId* | int | First part composite key identifying the report schedule this recipient is for. |
| *Email* | nvarchar(256) | Second part composite key identifying the recipient for the report schedule. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

## Template Schema

The template schema contains four tables that define the templates, pages, features and associations.

**NOTE:** Because all updates to these tables are done directly with sql script during releases, none of the CUD operations on these tables are logged for auditing purposes.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [Template](#h.qe1nl0wcl9f5) | No | Defines available templates for hosted sites. Each entry must correspond with a developed solution available as part of the application. |
| [Page](#h.b7cyibj1i2h1) | No | Defines available pages for hosted sites. Each [Page](#h.b7cyibj1i2h1) corresponds to a particular function or display. The actual layout will be defined by the [Template](#h.qe1nl0wcl9f5) associations. In the MVC world, the [Page](#h.b7cyibj1i2h1) comprises of the Mode while the [Template](#h.qe1nl0wcl9f5) associated defines the View. |
| [TemplatePage](#h.3yqjkt96e0p8) | No | Defines associations between pages and templates. |
| [TemplateFeature](#h.ag8c1f1lh8e4) | No | Defines [Template](#h.qe1nl0wcl9f5) specific features that can be configured by the client. This provides a level of functional customization. |
| [TemplatePageFeature](#h.ihbqjjhcjmg9) | No | Defines [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination specific features that can be configured by the client. This provides a level of functional customization. |
| [TemplateText](#h.4rohjhxu2jyu) | No | Defines all available resource keys that are global to a specific [Template](#h.qe1nl0wcl9f5) such as CSS text, copyright notice, button labels and tooltips, etc. |
| [TemplatePageText](#h.bmilkg1vzmwf) | No | Defines all available resource keys that are local to each specific [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination such as header, footer, glossary, etc. |
| [TemplateNavigation](#h.ykbhpn66jyb2) | No | Defines available navigation areas for the entire [Template](#h.qe1nl0wcl9f5). Includes the default xml for this area, as well as the xsl transformation to convert the xml to appropriate html for the [Template](#h.qe1nl0wcl9f5). |
| [TemplatePageNavigation](#h.4t2waul8jppi) | No | Defines available navigation areas for a specific [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination. Includes the default xml for this area, as well as the xsl transformation to convert the xml to appropriate html for the [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination. |

### Template

Defines available templates for hosted sites. Each entry must correspond with a developed solution available as part of the application.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | Primary key identifier for the [Template](#h.qe1nl0wcl9f5) entity. |
| *Name* | nvarchar(200) | Name of the [Template](#h.qe1nl0wcl9f5). |
| Description | nvarchar(400) | Description of the [Template](#h.qe1nl0wcl9f5). |

### Page

Defines available pages for hosted sites. Each [Page](#h.b7cyibj1i2h1) corresponds to a particular function or display. The actual layout will be defined by the [Template](#h.qe1nl0wcl9f5) associations. In the MVC world, the [Page](#h.b7cyibj1i2h1) comprises of the Mode while the [Template](#h.qe1nl0wcl9f5) associated defines the View.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *PageId* | int | Primary key identifier for the [Page](#h.b7cyibj1i2h1) entity. |
| *Name* | nvarchar(200) | Name of the [Page](#h.b7cyibj1i2h1). |
| Description | nvarchar(400) | Description of the [Page](#h.b7cyibj1i2h1). |

### TemplatePage

Defines associations between pages and templates.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key defining the [Template](#h.qe1nl0wcl9f5) association. |
| *PageId* | int | Second part composite key defining the [Page](#h.b7cyibj1i2h1) association. |

### TemplateFeature

Defines [Template](#h.qe1nl0wcl9f5) specific features that can be configured by the client. This provides a level of functional customization.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the feature belongs to. |
| *Key* | varchar(200) | Second part composite key defining a meaningful identifier for the feature. |
| Description | nvarchar(400) | Description of the feature. |

### TemplatePageFeature

Defines [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination specific features that can be configured by the client. This provides a level of functional customization.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the feature belongs to. |
| *PageId* | int | Second part composite key identifying the [Page](#h.b7cyibj1i2h1) the feature belongs to. |
| *Key* | varchar(200) | Third part composite key defining a meaningful identifier for the feature. |
| Description | varchar(400) | Description of the feature. |

### TemplateText

Defines all available resource keys that are global to a specific [Template](#h.qe1nl0wcl9f5) such as CSS text, copyright notice, button labels and tooltips, etc.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the text belongs to. |
| *ResourceKey* | varchar(200) | Second part composite key defining the resource key for the feature. |
| *Name* | nvarchar(200) | Descriptive name of the text. |
| *IsHtml* | bit | Boolean flag that determines if the text is html (such as a copyright or disclaimer) or plain text (such as a label). |
| DefaultText | nvarchar(max) | Defines the default text to use for this resource if none is set in the client database. |
| Description | nvarchar(400) | Longer description of the text. |

### TemplatePageText

Defines all available resource keys that are local to each specific [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination such as header, footer, glossary, etc.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the text belongs to. |
| *PageId* | int | Second part composite key identifying the [Page](#h.b7cyibj1i2h1) the text belongs to. |
| *ResourceKey* | varchar(200) | Third part composite key defining the resource key for the feature. |
| *Name* | nvarchar(200) | Descriptive name of the text. |
| *IsHtml* | bit | Boolean flag that determines if the text is html (such as header or glossary) or plain text (such as a tooltip). |
| DefaultText | nvarchar(max) | Defines the default text to use for this resource if none is set in the client database. |
| Description | nvarchar(400) | Longer description of the text. |

### TemplateNavigation

Defines available navigation areas for the entire [Template](#h.qe1nl0wcl9f5). Includes the default xml for this area, as well as the xsl transformation to convert the xml to appropriate html for the [Template](#h.qe1nl0wcl9f5).

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the navigation entity belongs to. |
| *NavigationKey* | varchar(200) | Second part composite key defining the navigation key for the entity. |
| *Name* | nvarchar(200) | Descriptive name of the navigation area. |
| *XslTransform* | xml (schemabound) | XSLT XML document that defines how to transform the navigation xml to html for the [Site](#h.efavfbiiiu9s).  **NOTE:** This xml should be typed (schemabound) using the following schema: <http://www.w3.org/1999/XSL/Transform> |
| *DefaultNavigationXml* | xml (schemabound) | Default xml to use in case the client has not customized the menu. |
| Description | nvarchar(400) | Detailed description of the navigation area. |

### TemplatePageNavigation

Defines available navigation areas for a specific [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination. Includes the default xml for this area, as well as the xsl transformation to convert the xml to appropriate html for the [Template](#h.qe1nl0wcl9f5) / [Page](#h.b7cyibj1i2h1) combination.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TemplateId* | int | First part composite key identifying the [Template](#h.qe1nl0wcl9f5) the navigation entity belongs to. |
| *PageId* | int | Second part composite key identifying the [Page](#h.b7cyibj1i2h1) the navigation entity belongs to. |
| *NavigationKey* | varchar(200) | Third part composite key defining the navigation key for the entity. |
| *Name* | nvarchar(200) | Descriptive name of the navigation area. |
| *XslTransform* | xml (schemabound) | XSLT XML document that defines how to transform the navigation xml to html for the [Site](#h.efavfbiiiu9s).  **NOTE:** This xml should be typed (schemabound) using the following schema: <http://www.w3.org/1999/XSL/Transform> |
| *DefaultNavigationXml* | xml (schemabound) | Default xml to use in case the client has not customized the menu. |
| Description | nvarchar(400) | Detailed description of the navigation area. |

# 

# 

# Vertical Market Schema

The Vertical Market Schema consists of a [Core](#h.5uh7hckw2csw) schema that defines shared table structure across all vertical markets, as well as a market specific schema that defines the market’s taxonomy.

## 

## 

## Core schema

The Core schema shared by all vertical markets mainly consists of document tables and associated metadata. Whereas taxonomy architecture of each market can vary greatly, metadata pertaining to specific documents is more universal which is what allows us to create a common description for these tables.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [DocumentType](#h.b09vgg53l935) | Yes | Defines the available document types specific to the vertical market. |
| [Document](#h.fs0trl5y2o2c) | Yes | Defines the vertical market documents and basic metadata such as file name and size. |
| [DocumentMetaData](#h.ajdi2rr1wzm0) | Yes | Defines additional metadata for a [Document](#h.fs0trl5y2o2c) entity in a dictionary format. |
| [TaxonomyLevel](#h.abbbvo4lvwhn) | Yes | Defines the taxonomy hierarchy for the vertical market and associates them to market specific schema. |
| [CUDHistory](#h.ahtfleljtlg6) | No | Contains an audit trail of all create, update, and delete operations against auditable tables.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.ahtfleljtlg6) and [CUDHistoryData](#h.xt01nt8wt33m) tables. |
| [CUDHistoryData](#h.xt01nt8wt33m) | No | Contains the change data pertaining to a [CUDHistory](#h.ahtfleljtlg6) entity.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.ahtfleljtlg6) and [CUDHistoryData](#h.xt01nt8wt33m) tables. |

### DocumentType

Defines the available document types specific to the vertical market.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocumentTypeId* | int | Primary key identifier for the [DocumentType](#h.b09vgg53l935) entity. |
| *Name* | nvarchar(100) | Unique meaningful name for the [DocumentType](#h.b09vgg53l935) entity.  **NOTE:** There must be a unique index or constraint on this field. |
| *MarketId* | nvarchar(100) | Unique market identifier for the [DocumentType](#h.b09vgg53l935) entity.  **NOTE:** There must be a unique index of constraint on this field. |
| Description | nvarchar(400) | Optional additional description of the [DocumentType](#h.b09vgg53l935) entity. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### Document

Defines the vertical market documents and basic metadata such as file name and size.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocumentId* | int | Primary key identifier for the [Document](#h.fs0trl5y2o2c) entity. |
| *DocumentTypeId* | int | Associates the [Document](#h.fs0trl5y2o2c) entity to a specific [DocumentType](#h.b09vgg53l935) entity. |
| *TaxonomyLevel* | int | Hierarchical level of the taxonomy entity that owns this [Document](#h.fs0trl5y2o2c).. |
| *TaxonomyId* | int | Identifier of the taxonomy entity that owns this [Document](#h.fs0trl5y2o2c). |
| *FileName* | nvarchar(260) | Original name of the uploaded file for this [Document](#h.fs0trl5y2o2c). 260 characters defines maximum file name length per Microsoft. |
| *ContentUri* | nvarchar(2083) | Universal Resource Identifier for the content (file) of the [Document](#h.fs0trl5y2o2c). points to the location accessible by the service or application for content retrieval. |
| *MimeType* | varchar(127) | Mimetype of the [Document](#h.fs0trl5y2o2c), inferred from the file name extension during upload. |
| *Size* | bigint | Number of bytes in the file. |
| *IsPrivate* | bit | Boolean determining whether this [Document](#h.fs0trl5y2o2c) is browsable without a specific association |
| *Name* | nvarchar(100) | Name of [Document](#h.fs0trl5y2o2c). This is originally set to *FileName* during creation, but can be changed when editing the metadata. |
| Description | nvarchar(400) | Optional detailed description of the [Document](#h.fs0trl5y2o2c). |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### DocumentMetaData

Defines additional metadata for a [Document](#h.fs0trl5y2o2c) entity in a dictionary format.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocumentId* | int | First part composite key identifying the [Document](#h.fs0trl5y2o2c) this key/value pair belongs to. |
| *Key* | varchar(20) | Unique identifier [DocumentMetaData](#h.ajdi2rr1wzm0) entity. |
| *DataType* | int | Identifies the supported data type of this entity.  **NOTE:** Valid values should be defined in an enumeration for code validation, and a check constraint with a udf function should be used for data validation of this value. |
| Order | int | Optional order of entries for the parent [Document](#h.fs0trl5y2o2c) entity. |
| IntegerValue | int | Holds the value for integer metadata. |
| BooleanValue | bit | Holds the value for boolean metadata. |
| DateTimeValue | datetime | Holds the value for datetime metadata. |
| StringValue | nvarchar(max) | Holds the value for string metadata. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyLevel

Defines the taxonomy hierarchy for the vertical market and associates them to market specific schema.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *Level* | int | Primary Key identifier of the [TaxonomyLevel](#h.abbbvo4lvwhn) entity which corresponds to the hierarchy level of the entity. |
| *Name* | nvarchar(200) | Unique name of the [TaxonomyLevel](#h.abbbvo4lvwhn).  **NOTE:** There must be a unique constraint or index on this column. |
| *SourceTable* | varchar(128) | Name of the table in the schema that holds the data for this [TaxonomyLevel](#h.abbbvo4lvwhn).  **NOTE:** There must be a unique constraint or index on this column. |
| *MarketIdColumn* | varchar(128) | Name of the columns from the *SourceTable* that contains the unique market identifier for the taxonomy level.  **NOTE:** The column can be of any type, but must not be longer than 100 characters in string representation. |
| Description | nvarchar(400) | Optional detailed description of the [TaxonomyLevel](#h.abbbvo4lvwhn). |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### CUDHistory

Contains an audit trail of all create, update and delete operations against auditable tables.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.ahtfleljtlg6) and [CUDHistoryData](#h.xt01nt8wt33m) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int identity | Primary key identifier of the [CUDHistory](#h.ahtfleljtlg6) entity. |
| *TableName* | nvarchar(128) | Name of the table the CUD operation occurred on. |
| *Key* | int | Primary key identifier of the row the CUD operation occurred on. |
| SecondKey | nvarchar(200) | Secondary key identifier of the row the CUD operation occurred on. *NULL* if there is no secondary key. |
| ThirdKey | nvarchar(200) | Tertiary key identifier of the row the CUD operation occurred on. *NULL* if there is no tertiary key. |
| *CUDType* | char(1) | Character representing the type of update: *C* for create, *U* for update, *D* for delete. |
| *UtcCUDDate* | datetime | Utc date and time of the update. |
| *BatchId* | uniqueidentifier | Unique identifier for the update. Used to identify which rows were part of the same CUD operation.  **NOTE:** A new id should be generated at the beginning of any procedure or trigger performing any audit logging and used for each row inserted during that operation. |
| UserId | int | Identity of the [User](#h.9c73rxp8r85j) who performed the CUD operation. |

### CUDHistoryData

Contains the change data pertaining to a [CUDHistory](#h.ahtfleljtlg6) entity.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.ahtfleljtlg6) and [CUDHistoryData](#h.xt01nt8wt33m) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int | First part composite key identifying the [CUDHistory](#h.ahtfleljtlg6) entity this change data belongs to. |
| *ColumnName* | nvarchar(128) | Second part composite key identifying the column this change data is for. |
| *SqlDbType* | int | Type of data stored in the column. Should be one of the values available from the *System.Data.SqlDbType* enumeration.. |
| OldValue | nvarchar(max) | Original value before the CUD operation. Always *NULL* for create operations. |
| NewValue | nvarchar(max) | New value after the CUD operation. Always *NULL* for delete operations. |

## U.S.A Market Schema

The USA Vertical Market has an already existent database schema. The pre existing Taxonomy schema works as is however there must be a translation between existing document tables and the schema defined by the [Vertical Market Core Schema](#h.4betdspk2vna) above.

This will be done by translating the document specific tables (ProsDocs and DocType) into indexed views defining the schema from the [Core](#h.4betdspk2vna) ([Document](#h.fs0trl5y2o2c) and [DocumentType](#h.b09vgg53l935) respectively).

**NOTE:** Because these tables are only updated directly (via script) or through internal processes (such as the *Ingestor*), there is no need to log CUD operations of these tables for auditing purposes.

If it is determined there is a need in a future release, all the legacy processes that could update these tables would need to be updated to perform such audit logging in the [CUDHistory](#h.ahtfleljtlg6) table.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [Company](#h.19zj6j7wc0j0) | No | This table defines Fund Families as [Company](#h.19zj6j7wc0j0) entities. Fund Families are the highest level in the USA taxonomy hierarchy, and have a taxonomy level of 0. |
| [Prospectus](#h.14rtxrq5c5jh) | No | This table defines Funds as [Prospectus](#h.14rtxrq5c5jh) entities. Funds are directly under a [Company](#h.19zj6j7wc0j0), and have a taxonomy level of 1. |
| [ProsTicker](#h.yvo456dibkq1) | No | This table defines Shares as [ProsTicker](#h.yvo456dibkq1) entities. Shares are directly under [Prospectus](#h.14rtxrq5c5jh), and have a taxonomy level of 2. |
| [ProsDocs](#h.bwppgl88jblv) | No | This table defines all the USA market specific documents ingested. Documents are associated with the Fund, or [Prospectus](#h.14rtxrq5c5jh) entity. This table is the source for the [Document](#h.fs0trl5y2o2c) view that is part of the core schema. |
| [DocType](#h.o6jmw288o670) | No | This table defines the available document types for the USA market. This table is the source for the [DocumentType](#h.b09vgg53l935) view that is part of the core schema. |

### Company

This table defines Fund Families as [Company](#h.19zj6j7wc0j0) entities. Fund Families are the highest level in the USA taxonomy hierarchy, and have a taxonomy level of 0.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CompanyID* | int | Primary key identifier of the [Company](#h.19zj6j7wc0j0) entity. |
| *CompanyName* | nvarchar(255) | This holds the actual Family Name/Company Name used in U.S. vertical market Ingestion. |
| CompanyURL | nvarchar(255) | The actual URL of the Company added to this table. |
| Image | nvarchar(50) | Image field holds the Image of the company.only used on RP Admin site. |
| AlertMessage | text | any alertmessage that needs to be defined. currently this field is null for all companies |
| Online | char(1) | defines if the Company is online or offline Y being online and N being offline |
| CompLevel | int | 1 or 2 .1 means this company is visible in Hosted Sites,FundCompli and Rightprospectus.com . 2 means this company can only be viewed by RRD folks. Mostly this flag is set if we add a new Fund Family /Company and it needs to be visible only to RRD folks until it is supposed to be viewed by the public. |

### Prospectus

This table defines Funds as [Prospectus](#h.14rtxrq5c5jh) entities. Funds are directly under a Company, and have a taxonomy level of 1.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ProsId* | int | Primary key identifier of the [Prospectus](#h.14rtxrq5c5jh) entity. |
| ProsName | nvarchar(255) |  |
| Company | nvarchar(255) |  |
| URL | nvarchar(255) |  |
| ProsDate | datetime |  |
| RevisedProsDate | datetime |  |
| SAISURL | nvarchar(255) |  |
| SuppURL | nvarchar(255) |  |
| SAISURL2 | nvarchar(255) |  |
| SuppURL2 | nvarchar(255) |  |
| SAISURL3 | nvarchar(255) |  |
| SuppURL3 | nvarchar(255) |  |
| SAISURL4 | nvarchar(255) |  |
| SuppURL4 | nvarchar(255) |  |
| SAISURL5 | nvarchar(255) |  |
| SuppURL5 | nvarchar(255) |  |
| AltURL | nvarchar(255) |  |
| *CompanyId* | int | Identifies the [Company](#h.19zj6j7wc0j0) this entity belongs to. |
| Online | char(1) |  |
| ARDate | datetime |  |
| RevisedARDate | datetime |  |
| FEY | varchar(5) |  |
| PHDate | datetime |  |
| RevisedPHDate | datetime |  |
| PVRDate | datetime |  |
| RevisedPVRDate | datetime |  |
| SDate | datetime |  |
| RevisedSDate | datetime |  |
| SSDate | datetime |  |
| SPDate | datetime |  |
| RevisedSPDate | datetime |  |
| FSDate | datetime |  |
| RevisedFSDate | dateitme |  |
| COMDate | datetime |  |
| RevisedCOMDate | datetime |  |
| GWFDate | datetime |  |
| RevisedGWFDate | datetime |  |

### ProsTicker

This table defines Shares as [ProsTicker](#h.yvo456dibkq1) entities. Shares are directly under [Prospectus](#h.14rtxrq5c5jh), and have a taxonomy level of 2.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TickerID* | int | Primary key identifier for the [ProsTicker](#h.yvo456dibkq1) entity. |
| ProspectusID | int | Identifies the [Prospectus](#h.14rtxrq5c5jh) this entity belongs to. |
| TickerSymbol | nvarchar(10) |  |
| Class | varchar(100) |  |
| FileNumber | varchar(50) |  |
| CIK | varchar(50) |  |
| SeriesId | varchar(50) |  |
| ClassContractID | varchar(50) |  |
| CUSIP | varchar(10) |  |
| LIPPER | varchar(50) |  |

### ProsDocs

This table defines all the USA market specific documents ingested. Documents are associated with the Fund, or [Prospectus](#h.14rtxrq5c5jh) entity. This table is the source for the [Document](#h.fs0trl5y2o2c) view that is part of the core schema

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ProsDocId* | int | Primary key identifier of the [ProsDocs](#h.bwppgl88jblv) entity. |
| ProsId | int | Identifies the [Prospectus](#h.14rtxrq5c5jh) the document belongs to. |
| ProsDocTypeId | varchar(3) | Identifies the [DocType](#h.o6jmw288o670) the document belongs to. |
| ProsDocOrder | int |  |
| ProsDocURL | varchar(500) |  |
| ProsDocAltURL | varchar(500) |  |
| ProsDocUseAltURL | bit |  |
| ProsDocLevel | int |  |
| Removed | bit |  |
| ProsDocPDFInitial | int |  |
| ProsDocUsePDF | bit |  |
| ProsDocBackUpURL | varchar(500) |  |
| ProsDocBackUpURLArchive | int |  |
| isBackUpURLSynchronized | tinyint |  |
| ClientID | int |  |
| CustomizedTypeID | int |  |
| ProsDocFundSiteURL | varchar(500) |  |
| PageCount | int |  |
| PageSizeHeight | decimal(5, 2) |  |

### DocType

This table defines the available document types for the USA market. This table is the source for the [DocumentType](#h.b09vgg53l935) view that is part of the core schema.

**NOTE:** the columns in orange are new columns necessary to match the new core schema.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocTypeId* | varchar(4) | Primary key identifier for the [DocType](#h.o6jmw288o670) entity. |
| DocTypeDesc | varchar(255) |  |
| DocPriority | int |  |
| *DocumentTypeId* | int identity | Identity integer for the [DocType](#h.o6jmw288o670) entity. To be used as the primary key identifier in the indexed view. |
| *Name* | nvarchar(100) | Name of the [DocType](#h.o6jmw288o670) entity. To be used as the *Name* in the indexed view. |

# 

# 

# Client Schema

The Client Schema is broken into three parts: [Core](#h.5uh7hckw2csw), [Vertical Market Integration](#h.ylegsz1rlqn6), and [Template & Design](#h.5g29xp600qr5). [Core](#h.5uh7hckw2csw) contains the main tables that either contain data specific to the client, and/or are vital to both the [Vertical Market Integration](#h.ylegsz1rlqn6)and [Template & Design](#h.5g29xp600qr5)schemas.

## 

## 

## Core Schema

Core Schema contains the following six tables. [Site](#h.efavfbiiiu9s) specifically defines the entity that connects the taxonomy associations from the vertical market to the [Template](#h.qe1nl0wcl9f5) and [Page](#h.b7cyibj1i2h1) customizations. [ClientSettings](#h.sehxmnk77d6v) simply defines the default configurations such as the default [Site](#h.efavfbiiiu9s) for the client.

The rest of the tables define client specific documents and their metadata and groupings.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [Site](#h.efavfbiiiu9s) | Yes | Defines a [Site](#h.efavfbiiiu9s) entity, which is the root entity for vertical market specific associations and customizations, as well as [Template](#h.qe1nl0wcl9f5) specific associations and customizations. Every client must have at least one [Site](#h.efavfbiiiu9s). |
| [ClientSettings](#h.cyuwlz4rovps) | Yes | Defines the default values for the client, such as the default [Site](#h.efavfbiiiu9s).  **NOTE:** This table is designed to have a single row. If more than one row is inserted, only the top level row will ever be read. |
| [ClientDocumentType](#h.4p3p0tzfl00w) | Yes | Defines the document types for the client specific documents. An example is Money Market Document. |
| [ClientDocument](#h.lflbcwh8o25w) | Yes | Houses the metadata for a client specific document. |
| [ClientDocumentData](#h.2ze4bz1eemmv) | Yes | Contains the actual content for the [ClientDocument](#h.lflbcwh8o25w) entity. |
| [ClientDocumentGroup](#h.ijuifldmtbtl) | Yes | Defines a grouping of [ClientDocument](#h.lflbcwh8o25w) entities. |
| [ClientDocumentGroupClientDocument](#h.1mvbbksdqgfc) | Yes | Associates a [ClientDocument](#h.lflbcwh8o25w) to a [ClientDocumentGroup](#h.ijuifldmtbtl). |
| [UrlRewrite](#h.29m8lcm8z2wb) | Yes | Contains regular expression matches to match against request url paths, as well as rewrite format strings.  The regular expression match pattern must contain named grouped submatches. These submatches will be used in the rewrite format string as token replacements. Each named group will use the format of {namedgroup} in the format string  As an example: a submatch group named group1 would be replaced in a format string that contained {group1}.  There is an assumption that each grouped match will only have one occurrence.  **NOTE:** This table should be cached on the web server as part of the solution for validating requests against regular expressions. Each entry should be cached as a struct containing the regular expression pattern as a compiled *RegEx* instance as a member, as well as the format string for the rewrite as a member of the struct. This will help on any performance concerns relates to this feature.  **NOTE 2:** Ideally this would be handled in an http module before any other processing occurs on the pipeline. There is a chance that this might interfere with MVC processing, if so we will need to follow a method similar to the one outlined here: <http://stackoverflow.com/questions/799511/how-to-simulate-server-transfer-in-asp-net-mvc>. |
| [SiteActivity](#h.i3pfkasc0ar4) | No | Contains a log of all site requests for the client. When a request is processed a stored procedure should be called to create the activity entry and an id should be returned.  **NOTE:** This id should be stored for the request lifecycle so exceptions and error states can be associated with it. |
| [UserAgent](#h.5zymrn4ded9w) | No | Normalized format for storing user agent strings which are not unique to a request.  **NOTE:** There must be a unique index on the *UserAgentHash* and *UserAgentLength* persisted computed columns. This ensures integrity and provides an indexed solution for looking up matching user agents during activity logging events. |
| [Uri](#h.4ne5g7xz4i7k) | No | Normalized storage of Uri’s (Request, Parsed Request, Referrer) that are associated to a [SiteActivity](#h.i3pfkasc0ar4) entity.  Many of the entities will have the same value for these Uri’s - normalizing them to a separate table reduces burden on storage capacity with request activity logging.  **NOTE:** There must be a unique index on the *UriHash* and *UriLength* persisted computed columns. This provides an indexed solution for looking up matching uri’s during activity logging events. |
| [ErrorLog](#h.2usu0hry7oyx) | No | Allows logging of any error state or exception that terminates processing of a request, thread, or service, such as code generated exceptions or an invalid context (such as invalid path or query string parameter). |
| [ClientRole](#h.4fgyobf66rlb) | Yes | Defines all the client specific roles a [User](#h.9c73rxp8r85j) can belong to. |
| [UserClientRole](#h.xs03vjrbmzvv) | Yes | Associates a [ClientRole](#h.4fgyobf66rlb) to a [User](#h.9c73rxp8r85j). |
| [CUDHistory](#h.zchv8b6x8ocg) | No | Contains an audit trail of all create, update, and delete operations against auditable tables.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.zchv8b6x8ocg) and [CUDHistoryData](#h.wf24y158epyo) tables. |
| [CUDHistoryData](#h.wf24y158epyo) | No | Contains the change data pertaining to a [CUDHistory](#h.ahtfleljtlg6) entity.  **NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.zchv8b6x8ocg) and [CUDHistoryData](#h.wf24y158epyo) tables. |

### Site

Defines a [Site](#h.efavfbiiiu9s) entity, which is the root entity for vertical market specific associations and customizations, as well as [Template](#h.qe1nl0wcl9f5) specific associations and customizations. Every client must have at least one [Site](#h.efavfbiiiu9s).

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteId* | int identity | Primary key for the row. |
| *Name* | nvarchar(100) | Name of the [Site](#h.efavfbiiiu9s).  **NOTE:** There must be a unique index or constraint on this column. |
| *TemplateId* | int | Identity of the [Template](#h.qe1nl0wcl9f5) the [Site](#h.efavfbiiiu9s) uses. |
| *DefaultPageId* | int | Id of the [Page](#h.b7cyibj1i2h1) to render as the landing page for the root of the [Site](#h.efavfbiiiu9s). |
| ParentSiteId | int | Identifies the parent [Site](#h.efavfbiiiu9s), if it exists. This allows a secondary site to share the data association of a primary site, but with the ability to override [Site](#h.efavfbiiiu9s) specific customizations.  This feature will be useful for clients who want to slightly customize the look and feel of the same data based on origin of the use reflected in the path and query string of the request. This also allows tracking of these requests by origin (reflected in path and query string). |
| Description | nvarchar(400) | Description of the [Site](#h.efavfbiiiu9s). |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientSettings

Defines the default values for the client, such as the default [Site](#h.efavfbiiiu9s).

**NOTE:** This table is designed to have a single row. If more than one row is inserted, only the top level row will ever be read.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientId* | int | Contains the client specific identity found in the client table in the system schema. |
| *DefaultSiteId* | int | Contains the identifier of the default [Site](#h.efavfbiiiu9s) for the client. This is the [Site](#h.efavfbiiiu9s) used when requesting a resource without specifying a [Site](#h.efavfbiiiu9s) in the path or query string of the resource Uri. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting theActivityError initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDocumentType

Defines the document types for the client specific documents. An example is Money Market Document.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDocumentTypeId* | int identity | Primary key of the client document type. |
| *Name* | nvarchar(100) | Name of the client document type. |
| Description | nvarchar(400) | Description of the client document type. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDocument

Houses the metadata for a client specific document.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDocumentId* | int identity | Primary key of the client document. |
| *ClientDocumentTypeId* | int | Type of the client document. |
| *FileName* | nvarchar(260) | Original file name of the client document. The 260 character limit is defined by the NTFS and windows file system as max file name length. |
| *MimeType* | nvarchar(127) | Mime type of the document. This is required in the event of serving the file as an attachment to an end user. The 127 character limit is defined by various internet standards. |
| *IsPrivate* | bit | Bit determining whether the document is browsable by its associations |
| ContentUri | nvarchar(2083) | Uri mapped to the resource, allowing flexibility for network storage of the document. When file is stored in [ClientDocumentData](#h.2ze4bz1eemmv), this column should be null. |
| Name | nvarchar(100) | Display name of the document. |
| Description | nvarchar(400) | Description of the document. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDocumentData

Contains the actual content for the [ClientDocument](#h.lflbcwh8o25w) entity.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDocumentId* | int | Primary key, referencing [ClientDocument](#h.lflbcwh8o25w) table. |
| Data | varbinary(max) | Actual data of the document. |
| *HasData* | bit (computed) | Persisted computed column set to 1 if *Data* is not null, 0 otherwise. |
| DataLength | int (computed) | Persisted computed column calculating the length of the data. Can be Null if *Data* is Null. |
| DataHash | varbinary(20) (computed) | Persisted computed column calculating an indexible hash for the data which can be used for data lookups. Can be Null if *Data* is null. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDocumentGroup

Defines a grouping of [ClientDocument](#h.lflbcwh8o25w) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDocumentGroupId* | int identity | Primary key of the client document group entity. |
| *Name* | nvarchar(100) | Display name of the client document group. |
| Description | nvarchar(400) | Description of the client document group. |
| ParentClientDocumentGroupId | int | Parent group of the client document group. Null if there is no parent. |
| CssClass | varchar(50) | If set, defines a css class name to inject into any element displaying this [ClientDocumentGroup](#h.ijuifldmtbtl) entity. Can be used for customization of look and feel. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### ClientDocumentGroupClientDocument

Associates a [ClientDocument](#h.lflbcwh8o25w) to a [ClientDocumentGroup](#h.ijuifldmtbtl).

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientDocumentGroupId* | int | First part of composite primary key defining association to the client document group. |
| *ClientDocumentId* | int | Second part of the composite primary key defining association to the client document. |
| Order | int | Defines the order of associated client documents to a client document group. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

## 

### UrlRewrite

Contains regular expression matches to match against request url paths, as well as rewrite format strings.

The regular expression match pattern must contain named grouped submatches. These submatches will be used in the rewrite format string as token replacements. Each named group will use the format of {namedgroup} in the format string

As an example: a submatch group named group1 would be replaced in a format string that contained {group1}.

There is an assumption that each grouped match will only have one occurrence.

**NOTE:** This table should be cached on the web server as part of the solution for validating requests against regular expressions. Each entry should be cached as a struct containing the regular expression pattern as a compiled *RegEx* instance as a member, as well as the format string for the rewrite as a member of the struct. This will help on any performance concerns relates to this feature.

**NOTE 2:** Ideally this would be handled in an http module before any other processing occurs on the pipeline. There is a chance that this might interfere with MVC processing, if so we will need to follow a method similar to the one outlined here: <http://stackoverflow.com/questions/799511/how-to-simulate-server-transfer-in-asp-net-mvc>.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *UrlRewriteId* | int identity | Primary key identity of the [UrlRewrite](#h.ispl0hsnl07e) entity. |
| *MatchPattern* | nvarchar(2083) | Contains the regular expression pattern to match against the path of the incoming request. Must contained grouped submatches to be used in the replacement rewrite format. This pattern will be cached by the web application as a compiled Regex instance. |
| *RewriteFormat* | nvarchar(2083) | Contains the format string to be used for the [UrlRewrite](#h.ispl0hsnl07e) entity. Each named group match from the regular expression should be included in the format string in the format of *{namedgroup}* where *namedgroup* is the name of the matched group. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### SiteActivity

Contains a log of all site requests for the client. When a request is processed a stored procedure should be called to create the activity entry and an id should be returned.

**NOTE:** This id should be stored for the request lifecycle so exceptions and error states can be associated with it.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteActivityId* | int identity | Primary key identity of the [SiteActivity](#h.i3pfkasc0ar4) entity. |
| *SiteId* | int | Identifies the [Site](#h.efavfbiiiu9s) this request was for (determined by context or by the default set in [ClientSettings](#h.cyuwlz4rovps)). |
| *ClientIPAddress* | varchar(15) | IP address of the client sending the request. |
| *UserAgentId* | int | ID of the matching [UserAgent](#h.5zymrn4ded9w) entity. If no match exists at time of entity creation, a new entity will be created in the [UserAgent](#h.5zymrn4ded9w) table and then associated here. |
| *RequestUtcDate* | datetime | Utc date and time of the request. |
| *HttpMethod* | varchar(20) | Method of the request (usually GET or POST). |
| *RequestUri* | int | Identifies the [Uri](#h.4ne5g7xz4i7k) entity containing the original request uri string. |
| *ParsedRequestUri* | int | Identifies the [Uri](#h.4ne5g7xz4i7k) entity containing the parsed (for url rewrite matches and external identifiers) request uri string. |
| *ServerName* | varchar(15) | Name of the server responding to the request. |
| ReferrerUri | int | Identifies the [Uri](#h.4ne5g7xz4i7k) entity containing the referrer uri. Null if none. |
| UserId | int | Associates the entity to an authenticated [User](#h.9c73rxp8r85j). Null if the request is anonymous. |
| PageId | int | Associates the entity to a specific [Page](#h.b7cyibj1i2h1). Null if [Page](#h.b7cyibj1i2h1) cannot be determined from request context. |
| TaxonomyAssociationGroupId | int | Associates the entity to a specific [TaxonomyAssociationGroup](#h.u5x07qspmnco). Null if not included in the request context. |
| TaxonomyAssociationId | int | Associates the entity to a specific [TaxonomyAssociation](#h.wdf0fb49qud2). Null if not included in the request context. |
| DocumentTypeId | int | Associates the entity to a specific [DocumentType](#h.b09vgg53l935). Null if not included in the request context. |
| ClientDocumentGroupId | int | Associates the entity to a specific [ClientDocumentGroup](#h.ijuifldmtbtl). Null if not included in the request context. |
| ClientDocumentId | int | Associates the entity to a specific [ClientDocument](#h.lflbcwh8o25w). Null if not included in the request context. |

### UserAgent

Normalized format for storing user agent strings which are not unique to a request.

**NOTE:** There must be a unique index on the *UserAgentHash* and *UserAgentLength* persisted computed columns. This ensures integrity and provides an indexed solution for looking up matching user agents during activity logging events.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *UserAgentId* | int identity | Primary key identity of the [UserAgent](#h.5zymrn4ded9w) entity. |
| *UserAgentString* | nvarchar(max) | Unique user agent string value associated to the entity. |
| *UserAgentHash* | varbinary(20) computed | Computed persisted hash value of the *UserAgentString*. |
| *UserAgentLength* | int computed | Computed persisted length of the *UserAgentString*. |

### Uri

Normalized storage of Uris (Request, Parsed Request, Referrer) that are associated to a [SiteActivity](#h.i3pfkasc0ar4) entity.

Many of the entities will have the same value for these Uri’s - normalizing them to a separate table reduces burden on storage capacity with request activity logging.

**NOTE:** There must be a unique index on the *UriHash* and *UriLength* persisted computed columns. This provides an indexed solution for looking up matching uri’s during activity logging events.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *UriId* | int identity | Primary key identifier of the [Uri](#h.4ne5g7xz4i7k) entity. |
| *UriString* | nvarchar(2083) | The Uri associated with the [SiteActivity](#h.i3pfkasc0ar4) entity. |
| *UriHash* | varbinary(20) computed | Persisted computed hash for the *UriString* column, allowing for indexed lookup (in combination of *UriLength*) and comparison during activity logging events. |
| *UriLength* | int computed | Persisted computed length of the *UriString* column, allowing for indexed lookup (in combination with *UriHash*) and comparison during activity logging events. |

### ErrorLog

Allows logging of any error state or exception that terminates processing of a request, thread, or service, such as code generated exceptions or an invalid context (such as invalid path or query string parameter).

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ErrorLogId* | int identity | Primary key identifier of the [ErrorLog](#h.2usu0hry7oyx) entity. |
| *ErrorCode* | int | Error code identifying the type of error that stopped processing of the request. Examples might be context validation errors (invalid identifier or external identifier), malformed paths, not found errors (context identifiers such as taxonomy association id not found in client db), unhandled exceptions, etc.  **NOTE:** The available values should be defined in an enumeration, as well as included in a scalar user defined function used as part of a check constraint for this column to ensure data integrity. |
| *ErrorUtcDate* | datetime | Utc date and time of the error occurrance. |
| *Priority* | int | Priority level of the exception. Inherited from Enterprise Library. |
| *Severity* | nvarchar(32) | Severity of the exception. Inherited from Enterprise Library. |
| *Title* | nvarchar(256) | Title of the exception handling policy. Inherited from Enterprise Library. |
| *MachineName* | nvarchar(32) | Name of the machine reporting the exception. Inherited from Enterprise Library. |
| *AppDomainName* | nvarchar(512) | Name of the application domain reporting the exception. Inherited from Enterprise Library. |
| *ProcessID* | nvarchar(256) | ID of the process reporting the exception. Inherited from Enterprise Library. |
| *ProcessName* | nvarchar(512) | Name of the process (usually executable + path) reporting the exception. Inherited from Enterprise Library. |
| ThreadName | nvarchar(512) | Name of the thread the exception occurred on. As a thread only has a name if explicitly set, this is usually *NULL*. Inherited from Enterprise Library. |
| Win32ThreadId | nvarchar(128) | ID of the thread the exception occurred on. Inherited from Enterprise Library. |
| EventId | int | Event ID of the exception. Equivalent to the event id of an event log entry. Inherited from Enterprise Library. |
| SiteActivityId | int | If set, identifies which [SiteActivity](#h.i3pfkasc0ar4) entity the error belongs to. |
| Message | nvarchar(1500) | Short message describing the error, such as context validation error details. Inherited from Enterprise Library. |
| FormattedMessage | nvarchar(max) | Error details such as exception message and stack trace. Inherited from Enterprise Library. |

### ClientRole

Defines all the client specific roles a [User](#h.9c73rxp8r85j) can belong to.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ClientRoleId* | int | Primary key identifier of the [ClientRole](#h.4fgyobf66rlb) entity. |
| *Name* | nvarchar(100) | Descriptive name of the role.  **NOTE:** There must be a unique index or constraint on this column. |
| Description | nvarchar(400) | Detailed description of the role. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### UserClientRole

Associates a [ClientRole](#h.4fgyobf66rlb) to a [User](#h.9c73rxp8r85j).

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| UserId | int | First part composite key identifying the [User](#h.9c73rxp8r85j) the role is associated with. |
| ClientRoleId | int | Second part composite key identifying the [ClientRole](#h.4fgyobf66rlb) the user belongs to. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### CUDHistory

Contains an audit trail of all create, update and delete operations against auditable tables.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.zchv8b6x8ocg) and [CUDHistoryData](#h.wf24y158epyo) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int identity | Primary key identifier of the [CUDHistory](#h.zchv8b6x8ocg) entity. |
| *TableName* | nvarchar(128) | Name of the table the CUD operation occurred on. |
| *Key* | int | Primary key identifier of the row the CUD operation occurred on. |
| SecondKey | nvarchar(200) | Secondary key identifier of the row the CUD operation occurred on. *NULL* if there is no secondary key. |
| ThirdKey | nvarchar(200) | Tertiary key identifier of the row the CUD operation occurred on. *NULL* if there is no tertiary key. |
| *CUDType* | char(1) | Character representing the type of update: *C* for create, *U* for update, *D* for delete. |
| *UtcCUDDate* | datetime | Utc date and time of the update. |
| *BatchId* | uniqueidentifier | Unique identifier for the update. Used to identify which rows were part of the same CUD operation.  **NOTE:** A new id should be generated at the beginning of any procedure or trigger performing any audit logging and used for each row inserted during that operation. |
| UserId | int | Identity of the [User](#h.9c73rxp8r85j) who performed the CUD operation. |

### CUDHistoryData

Contains the change data pertaining to a [CUDHistory](#h.ahtfleljtlg6) entity.

**NOTE:** Each auditable table must contain either triggers or gateway CUD procedures that handle inserting appropriate data into the [CUDHistory](#h.zchv8b6x8ocg) and [CUDHistoryData](#h.wf24y158epyo) tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *CUDHistoryId* | int | First part composite key identifying the [CUDHistory](#h.zchv8b6x8ocg) entity this change data belongs to. |
| *ColumnName* | nvarchar(128) | Second part composite key identifying the column this change data is for. |
| *SqlDbType* | int | Type of data stored in the column. Should be one of the values available from the *System.Data.SqlDbType* enumeration.. |
| OldValue | nvarchar(max) | Original value before the CUD operation. Always *NULL* for create operations. |
| NewValue | nvarchar(max) | New value after the CUD operation. Always *NULL* for delete operations. |

## Vertical Integration Schema

The tables below define vertical market specific associations, metadata overrides and supplementation, and custom data groupings.

The two main components of the vertical market here are [TaxonomyAssociation](#h.wdf0fb49qud2) and [DocumentTypeAssociation](#h.sxywqrcd9swh).

[TaxonomyAssociation](#h.wdf0fb49qud2) (and supporting tables) defines the market specific taxonomy hierarchy association and is tied to a [Site](#h.efavfbiiiu9s) at the root level.

[DocumentTypeAssociation](#h.sxywqrcd9swh) defines what document types are associated at either a [Site](#h.efavfbiiiu9s) or [TaxonomyAssociation](#h.wdf0fb49qud2) level. Only available documents of these types will be displayed in any [TemplatePage](#h.3yqjkt96e0p8).

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [TaxonomyAssociation](#h.wdf0fb49qud2) | Yes | This table defines any associations to any vertical market specific taxonomy level regardless of hierarchy.  In the U.S.A. market this could define a Company (Fund Family), Fund or Class association.  A market specific taxonomy entity (such as a specific Fund) can be associated multiple times in this table depending on where that association is being used. |
| [TaxonomyAssociationMetaData](#h.acxelndft54k) | Yes | This table defines additional metadata for any given [TaxonomyAssociation](#h.wdf0fb49qud2) entity that is not in the vertical market. |
| [TaxonomyAssociationGroup](#h.u5x07qspmnco) | Yes | This table defines a client specific grouping of [TaxonomyAssociation](#h.wdf0fb49qud2) entities.  This is used primarily for grouping collections of [TaxonomyAssociation](#h.wdf0fb49qud2) entities (such as funds) in ways that make sense for the various product offerings for the client. |
| [TaxonomyAssociationGroupTaxonomyAssociation](#h.h7f3z0nj5j65) | Yes | This table defines which [TaxonomyAssociation](#h.wdf0fb49qud2) entities are associated with a specific [TaxonomyAssociationGroup](#h.u5x07qspmnco) entity. |
| [TaxonomyAssociationHierachy](#h.ywrndh791dot) | Yes | This table defines [TaxonomyAssociation](#h.wdf0fb49qud2) entity hierarchy associations that are either not part of the vertical market, or not part of the ingestion process and therefore must be defined defined outside of the market.  An example use of this is for “Product Groups” where an ingested fund is really a composite of other funds. The associated funds are not part of the ingestion and are therefore defined in the client database here. |
| [TaxonomyLevelExternalId](#h.ngslk7mv8o7x) | Yes | This table defines any external identifier the system needs to recognize for a [TaxonomyAssociation](#h.wdf0fb49qud2) entity.  There must be a unique index on the *ExternalId* column. |
| [TaxonomyAssociationClientDocument](#h.b44o7cx7rufi) | Yes | This table defines associations between a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity and one or more [ClientDocument](#h.lflbcwh8o25w) entities. |
| [TaxonomyAssociationClientDocumentGroup](#h.dlipoemmapmz) | Yes | This table defines associations between a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity and one or more [ClientDocumentGroup](#h.ijuifldmtbtl) entities.  An example would be Money Market documents which often contain 6 months past history similar to a bank statement. Each month would be considered a client document and part of the client document group. |
| [DocumentTypeAssociation](#h.sxywqrcd9swh) | Yes | This table defines which document types from the vertical market can be viewed. Association can with a [Site](#h.efavfbiiiu9s) entity or [TaxonomyAssociation](#h.wdf0fb49qud2) entity. |
| [DocumentTypeExternalId](#h.pd6bbp3k50jo) | Yes | This table defines any external identifiers the system must recognize for a [DocumentType](#h.b09vgg53l935). External identifiers must be unique. |
| [Footnote](#h.84fvozftr8nf) | Yes | This table defines any footnotes that might exist for a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity or [TaxonomyAssociationGroup](#h.u5x07qspmnco) entity.  These footnotes will be compiled with proper annotation on pages displaying an associated entity. |
| [VerticalXmlImport](#h.yihyp3jjnz3d) | No | Contains the details of any vertical market related import into the system. Imports are linked to a specific xml export generated based on the import data types to allow for easy rollback of an import. |
| [VerticalXmlExport](#h.woyvuu83bgyd) | No | Contains the details of any vertical market integration related export of from the system. This table is also used to backup vertical market integration data immediately prior to an import. |
| TaxonomyAssociationGroupClientDocumentGroup |  |  |
| TaxonomyAssociationGroupClientDocument |  |  |
| FundDocumentClientDocumentGroup |  |  |
| FundDocumentClientDocument |  |  |

### TaxonomyAssociation

This table defines any associations to any vertical market specific taxonomy level regardless of hierarchy.

In the U.S.A. market this could define a Company (Fund Family), Fund or Class association.

A market specific taxonomy entity (such as a specific Fund) can be associated multiple times in this table depending on where that association is being used.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationId* | int identity | Primary key and identifier for the row. |
| *Level* | int | Taxonomy level of the entity. Translates to a specific taxonomy hierarchy in the vertical market database. |
| *TaxonomyId* | int | Identity of the taxonomy entity from the vertical market database. |
| SiteId | int | If set, assigns this item as a top level item for the associated [Site](#h.efavfbiiiu9s). This item will be displayed as a root level item on any [Page](#h.b7cyibj1i2h1) meant to display Taxonomy entities that does not have a specific context set otherwise. |
| ParentTaxonomyAssociationId | int | If set, assigns this item as a child to a specific Taxonomy entity. This value should reflect the hierarchy defined in the vertical market. Only set if there is a need to recreate that hierarchy for the current [Site](#h.efavfbiiiu9s). |
| NameOverride | nvarchar(200) | Name to override the display name for the Taxonomy entity from the vertical market. Leave null to use the default name. |
| DescriptionOverride | nvarchar(400) | Description to override the description for the Taxonomy entity from the vertical market. Leave null to use the default description. |
| CssClass | varchar(50) | CSS class name to add to the root element for any [Page](#h.b7cyibj1i2h1) showing this Taxonomy entity as the root element. This allows custom stylings using the cascading feature of CSS. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationMetaData

This table defines additional metadata for any given [TaxonomyAssociation](#h.wdf0fb49qud2) entity that is not in the vertical market.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationID* | int | First part composite key for the metadata. This identity binds the metadata to the Taxonomy entity. |
| *Key* | varchar(20) | Second part composite key for the metadata. This identity is the metadata key for looking up the information. |
| *DataType* | int | Enumeration representing the type of data stored for the metadata - can be integer, boolean, datetime, or string. |
| Order | int | Used for display order of associated metadata. |
| IntegerValue | int | Holds the value for integer metadata. |
| BooleanValue | bit | Holds the value for boolean metadata. |
| DateTimeValue | datetime | Holds the value for datetime metadata. |
| StringValue | nvarchar(max) | Holds the value for string metadata. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationGroup

This table defines a client specific grouping of [TaxonomyAssociation](#h.wdf0fb49qud2) entities.

This is used primarily for grouping collections of [TaxonomyAssociation](#h.wdf0fb49qud2) entities (such as funds) in ways that make sense for the various product offerings for the client.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationGroupId* | int identity | Primary key and identifier of the row. |
| *Name* | nvarchar(100) | Display name of the taxonomy association group. |
| Description | nvarchar(400) | Description of the taxonomy association group. |
| SiteId | int | If set, assigns this item as a top level item for the associated [Site](#h.efavfbiiiu9s). This item will be displayed as a root level item on any [Page](#h.b7cyibj1i2h1) meant to display taxonomy association groups that does not have a specific context set otherwise. |
| ParentTaxonomyAssociationId | int | If set, assigns this item as a child to a specific taxonomy association group. This value should reflect the hierarchy defined in the vertical market. Only set if there is a need to recreate that hierarchy for the current [Site](#h.efavfbiiiu9s). |
| ParentTaxonomyAssociationGroupId |  | If set, assigns this item as a child to another taxonomy association group. Used when this type of nested hierarchy of custom groupings is necessary for the client. |
| CssClass | varchar(50) | If set, defines a css class name to inject into any element displaying this [TaxonomyAssociationGroup](#h.u5x07qspmnco) entity. Can be used for customization of look and feel. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationGroupTaxonomyAssociation

This table defines which [TaxonomyAssociation](#h.wdf0fb49qud2) entities are associated with a specific [TaxonomyAssociationGroup](#h.u5x07qspmnco) entity.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationGroupId* | int | First part composite key of the association. Defines the taxonomy association group the association belongs to. |
| *TaxonomyAssociationId* | int | Second part composite key of the association. Defines the taxonomy association that belongs to the group. |
| Order | int | Display order for group associations. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationHierachy

This table defines [TaxonomyAssociation](#h.wdf0fb49qud2) entity hierarchy associations that are either not part of the vertical market, or not part of the ingestion process and therefore must be defined defined outside of the market.

An example use of this is for “Product Groups” where an ingested fund is really a composite of other funds. The associated funds are not part of the ingestion and are therefore defined in the client database here.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *ParentTaxonomyAssociationId* | int | First part composite key of the hierarchy - defines the parent or primary taxonomy association. |
| *ChildTaxonomyAssociationId* | int | Second part composite key of the hierarchy - defines the child or secondary taxonomy association. |
| *RelationshipType* | int | Third part composite key of the hierarchy - defines the type of association between parent and child. Example would be a product group fund. |
| Order | int | Display order of hierarchy associations. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyLevelExternalId

This table defines any external identifier the system needs to recognize for a [TaxonomyAssociation](#h.wdf0fb49qud2) entity.

There must be a unique index on the *ExternalId* column.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *Level* | int | First part composite key identifying the taxonomy level of the entity. |
| *TaxonomyId* | int | Second part composite key identifying the vertical market identifier of the entity. |
| *ExternalId* | nvarchar(100) | Third part composite key defining the external identifier for the entity. This value must be unique across all rows (requires a unique index). |
| *IsPrimary* | bit | Boolean flag that determines which entry is the primary external id to be used for building links in a page where the use external id feature is turned on.  **NOTE:** This column should have a default constraint setting the initial value to 0.  **NOTE 2:** This column should have a unique filtered index on it that guarantees only one true (1) entry exists for each *Level* and *TaxonomyId* combination. The filter should be *WHERE IsPrimary = 1*. See (<https://technet.microsoft.com/en-us/library/cc280372.aspx>) for more information on filtered indexes. Something along the lines of this should work:  CREATE UNIQUE INDEX iux\_TaxonomyLevelExternalId\_Level\_TaxonomyId\_IsPrimary  ON TaxonomyLevelExternalId  (  Level,  TaxonomyId,  IsPrimary  )  WHERE IsPrimary = 1; |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationClientDocument

This table defines associations between a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity and one or more [ClientDocument](#h.lflbcwh8o25w) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationId* | int | First part composite key defining the taxonomy association. |
| *ClientDocumentId* | int | Second part composite key defining the client document associated to the taxonomy association. |
| Order | int | Display order for client documents associated to the taxonomy association. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### TaxonomyAssociationClientDocumentGroup

This table defines associations between a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity and one or more [ClientDocumentGroup](#h.ijuifldmtbtl) entities.

An example would be Money Market documents which often contain 6 months past history similar to a bank statement. Each month would be considered a client document and part of the client document group.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *TaxonomyAssociationId* | int | First part composite key defining the taxonomy association. |
| *ClientDocumentGroupId* | int | Second part composite key defining the client document group associated to the taxonomy association. |
| Order | int | Display order for client document groups associated to the taxonomy association. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### DocumentTypeAssociation

This table defines which [DocumentType](#h.b09vgg53l935) entities from the vertical market can be viewed. Association can with a [Site](#h.efavfbiiiu9s) entity or [TaxonomyAssociation](#h.wdf0fb49qud2) entity.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocumentTypeAssociationId* | int identity | Primary key identifier for the [DocumentType](#h.b09vgg53l935) association. |
| *DocumentTypeId* | int | Vertical market identifier of the [DocumentType](#h.b09vgg53l935). |
| SiteId | int | If set, defines this association as a global association for the [Site](#h.efavfbiiiu9s). This will apply to any taxonomy association that does not have specific associations. |
| TaxonomyAssociationId | int | If set, defines this association to a specific taxonomy association. Overrides any site level associations. |
| Order | int | Display order of the [DocumentType](#h.b09vgg53l935) entities - defines column order for grids, etc. |
| HeaderText | nvarchar(100) | If set, defines the text to be used in place of the [DocumentType](#h.b09vgg53l935) name when the [DocumentType](#h.b09vgg53l935) is a header to a column in an html table. |
| LinkText | nvarchar(100) | If set, defines the text to be used in place of the [DocumentType](#h.b09vgg53l935) name when the [DocumentType](#h.b09vgg53l935) is a an html link. |
| DescriptionOverride | nvarchar(400) | If set, defines the text to be used in place of the [DocumentType](#h.b09vgg53l935) description. The description is used as both the detailed description and tooltip within the various templates.. |
| CssClass | varchar(50) | If set, defines a css class name to inject into any element displaying this [DocumentTypeAssociation](#h.sxywqrcd9swh) entity. Can be used for customization of look and feel. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### DocumentTypeExternalId

This table defines any external identifiers the system must recognize for a [DocumentType](#h.b09vgg53l935). External identifiers must be unique.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *DocumentTypeId* | int | First part composite key identifying the vertical market identifier for the [DocumentType](#h.b09vgg53l935). |
| *ExternalId* | nvarchar(100) | Second part composite key defining the external identifier for the entity. This value must be unique across all rows (requires a unique index). |
| *IsPrimary* | bit | Boolean flag that determines which entry is the primary external id to be used for building links in a page where the use external id feature is turned on.  **NOTE:** This column should have a default constraint setting the initial value to 0.  **NOTE 2:** This column should have a unique filtered index on it that guarantees only one true (1) entry exists for each *DocumentTypeId* value. The filter should be *WHERE IsPrimary = 1*. See (<https://technet.microsoft.com/en-us/library/cc280372.aspx>) for more information on filtered indexes. Something along the lines of this should work:  CREATE UNIQUE INDEX iux\_DocumentTypeExternalId\_DocumentTypeId  ON DocumentTypeExternalId  (  DocumentTypeId,  IsPrimary  )  WHERE IsPrimary = 1; |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### Footnote

This table defines any footnotes that might exist for a specific [TaxonomyAssociation](#h.wdf0fb49qud2) entity or [TaxonomyAssociationGroup](#h.u5x07qspmnco) entity.

These footnotes will be compiled with proper annotation on pages displaying an associated entity.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *FootnoteId* | int identity | Primary key identifier for the [Footnote](#h.84fvozftr8nf). |
| TaxonomyAssociationId | int | If set, defines the taxonomy association this [Footnote](#h.84fvozftr8nf) belongs to. |
| TaxonomyAssociationGroupId | int | If set, defines the taxonomy association group this [Footnote](#h.84fvozftr8nf) belongs to. |
| LanguageCulture | varchar(50) | If set, defines the language-culture combination this [Footnote](#h.84fvozftr8nf) is for. If null, defines the default or primary language-culture [Footnote](#h.84fvozftr8nf). |
| Text | nvarchar(max) | Text of the [Footnote](#h.84fvozftr8nf). |
| Order | int | Order to display associated footnotes. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### VerticalXmlImport

Contains the details of any import of client data into the system. Imports are linked to a specific xml export generated based on the import data types to allow for easy rollback of an import.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *VerticalXmlImportId* | int identity | Primary key identity of the [VerticalXmlImport](#h.yihyp3jjnz3d) entity. |
| *ImportTypes* | int | Flag set of types of data imported with this entity. The flag set will be defined in an enumeration with the Flag attribute set. There must be an accompanying scalar UDF that will perform appropriate bitwise operations to determine which types are set in this flag value. |
| *ImportXml* | xml (schemabound) | Xml data defining the import. Must meet the schema definition for imports (a link will be provided when the schema is defined). |
| *ImportDate* | datetime | Date of the xml import. |
| *ImportedBy* | int | Identity of the [User](#h.9c73rxp8r85j) performing the import. |
| *ExportBackupId* | int | Identity of the XmlExport entity created as part of the import process. This entity will be used for any rollback actions of the import (which is an all or nothing action, no partial rollbacks). |
| ImportDescription | nvarchar(400) | Optional description of the import that the user can provide for identity purposes. |

### VerticalXmlExport

Contains the details of any export of client data from the system. This table is also used to backup any area of the client data immediately prior to an import.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *VerticalXmlExportId* | int identity | Primary key identity of the [VerticalXmlExport](#h.woyvuu83bgyd) entity. |
| *ExportTypes* | int | Flag set of types of data exported with this entity. The flag set will be defined in an enumeration with the Flag attribute set. There must be an accompanying scalar UDF that will perform appropriate bitwise operations to determine which types are set in this flag value. |
| *ExportXml* | xml (schemabound) | Xml data defining the export. Must meet the schema definition for exports (a link will be provided when the schema is defined). |
| *ExportDate* | datetime | Date of the xml export. |
| *ExportedBy* | int | Identity of the [User](#h.9c73rxp8r85j) performing the export.  In the case of a backup generated from an import, this will be set to a system identity. |
| ExportDescription | nvarchar(400) | Optional description of the import that the user can provide for identity purposes.  In the case of a backup generated from an import, this will have a specific value that helps identify this entry as a backup. |

## 

## Template & Design Schema

The tables below define [Template](#h.qe1nl0wcl9f5) associations as well as customizations for display, styling, and common text for the client.

All the customizations in this section are not tied to any vertical market entities at all - this allows for a separation of concern where the [Template](#h.qe1nl0wcl9f5) is not tied to a specific vertical market.

**NOTE:** Version tables are not logged. There should not ever be an updates to a version table record, only inserts. The version table record is itself an audit trail.

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Logged** | **Description** |
| [SiteText](#h.4f6lejaosjrt) | Yes | Defines resource text to be used in the [Site](#h.efavfbiiiu9s) such as buttons and labels. This text is global to the [Template](#h.qe1nl0wcl9f5).  **NOTE:** There must be a unique index on the following columns: *SiteId*, *ResourceKey*, *LanguageCulture*.  **NOTE 2:** This feature can be traced back to a [TemplateText](#h.4rohjhxu2jyu) entity defined in the system database, identified by the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified by the *SiteId*. |
| [SiteTextVersion](#h.ejc0urvhv9do) | No | Contains versioned history (including current value) of text for [SiteText](#h.4f6lejaosjrt) entities. |
| [PageText](#h.111f5wvpr70w) | Yes | Defines larger text blocks specific to pages within the template, such as headers and footers.  **NOTE:** There must be a unique index on the following columns: *SiteId*, *PageId*, *ResourceKey*, *LanguageCulture*.  **NOTE 2:** This text can be traced back to [TemplatePageText](#h.bmilkg1vzmwf) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*. |
| [PageTextVersion](#h.cbzjky3v0trt) | No | Contains versioned history (including current value) of text for [PageText](#h.111f5wvpr70w) entities. |
| [SiteFeature](#h.8aai83b22v0o) | Yes | Contains configuration of [Template](#h.qe1nl0wcl9f5) wide features by [Site](#h.efavfbiiiu9s).  **NOTE:** This feature can be traced back to a [TemplateFeature](#h.ag8c1f1lh8e4) entity defined in the system database, identified by the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified by the *SiteId*. |
| [PageFeature](#h.3ufz1k8xuowm) | Yes | Contains configuration of [Page](#h.b7cyibj1i2h1) specific features by [Site](#h.efavfbiiiu9s).  **NOTE:** This feature can be traced back to a [TemplatePageFeature](#h.ihbqjjhcjmg9) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*. |
| [SiteNavigation](#h.a5pyyzszt3v4) | Yes | Defines navigation xml for menus used throughout the [Site](#h.efavfbiiiu9s).  This xml will contain schema that allows insertion of specific menu elements as well as custom links and hierarchy.  The known xml elements will be replaced with xml specific to the context when being served, then the final xml will be transformed using [Template](#h.qe1nl0wcl9f5) specific xslt before being injected into the outgoing response.  **NOTE:** There must be a unique index on the following columns: *SiteId*, *NavigationKey*, *PageId*, *LanguageCulture*.  **NOTE 2:** PageId is nullable - if it is not set the xml is global to the [Site](#h.efavfbiiiu9s). If it is set, the xml is a [Page](#h.b7cyibj1i2h1) specific override of the global site xml. |
| [SiteNavigationVersion](#h.knsegwt2wkk4) | No | Contains the version history (including current value) of xml for [SiteNavigation](#h.a5h8m7v6d3cq) entities. |
| [PageNavigation](#h.8behsz69vzp6) | Yes | Defines the navigation xml for menus used on specific pages of a [Site](#h.efavfbiiiu9s).  This xml will contain schema that allows insertion of specific menu elements as well as custom links and hierarchy.  The known xml elements will be replaced with xml specific to the context when being served, then the final xml will be transformed using a [Template](#h.qe1nl0wcl9f5) and [Page](#h.b7cyibj1i2h1) specific xslt before being injected into the outgoing response.  **NOTE:** There must be a unique index on the following columns: *SiteId*, *PageId*, *NavigationKey*, *LanguageCulture*.  **NOTE 2:** This text can be traced back to [TemplatePageNavigation](#h.4t2waul8jppi) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*. |
| [PageNavigationVersion](#h.shrk66b5mw1z) | No | Contains the version history (including current value) of xml for [PageNavigation](#h.8behsz69vzp6) entities. |
| [SiteXmlImport](#h.ops8jhixh3r3) | No | Contains the details of any [Site](#h.efavfbiiiu9s) related import of client data into the system. Imports are linked to a specific xml export generated based on the import data types to allow for easy rollback of an import. |
| [SiteXmlExport](#h.8rbuhbybgl53) | No | Contains the details of any [Site](#h.efavfbiiiu9s) related export of client data from the system. This table is also used to backup [Site](#h.efavfbiiiu9s) data immediately prior to an import. |
| [StaticResource](#h.b9o37jr0yf6e) | Yes | Contains static files as unstructured data that are referenced in CSS, such as images and fonts. |

### SiteText

Defines resource text to be used in the [Site](#h.efavfbiiiu9s) such as buttons and labels. This text is global to the [Template](#h.qe1nl0wcl9f5).

**NOTE:** There must be a unique index on the following columns: *SiteId*, *ResourceKey*, *LanguageCulture*.

**NOTE 2:** This feature can be traced back to a [TemplateText](#h.4rohjhxu2jyu) entity defined in the system database, identified by the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified by the *SiteId*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteTextId* | int | Primary key identifier for the [SiteText](#h.4f6lejaosjrt) entity. |
| *SiteId* | int | Identifier or the [Site](#h.efavfbiiiu9s) the text belongs to. |
| *ResourceKey* | varchar(200) | Resource key used to look up the text. |
| *CurrentVersion* | int | Current version of the [SiteText](#h.4f6lejaosjrt) entry. Used to identify the text from the [SiteTextVersion](#h.ejc0urvhv9do) table. This value defaults to 0. |
| LanguageCulture | varchar(50) | If set, defines the language-culture combination this text is for. If null, defines the default or primary language-culture text. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### SiteTextVersion

Contains versioned history (including current value) of text for [SiteText](#h.4f6lejaosjrt) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteTextId* | int | First part composite key identifying the [SiteText](#h.4f6lejaosjrt) entity the text version belongs to. |
| *Version* | int | Second part composite key identifying the version number of the text. |
| Text | nvarchar(max) | Text to be used throughout the [Site](#h.efavfbiiiu9s). |
| *UtcCreateDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. |
| CreatedBy | int | Identity of the [User](#h.9c73rxp8r85j) who inserted the version record. |

### PageText

Defines larger text blocks specific to pages within the template, such as headers and footers.

**NOTE:** There must be a unique index on the following columns: *SiteId*, *PageId*, *ResourceKey*, *LanguageCulture*.

**NOTE 2:** This text can be traced back to [TemplatePageText](#h.bmilkg1vzmwf) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *PageTextId* | int identity | Primary key identifier for the [PageText](#h.111f5wvpr70w) entity. |
| *SiteId* | int | Identifier of the [Site](#h.efavfbiiiu9s) the text belongs to. |
| *PageId* | int | Identifier of the [Page](#h.b7cyibj1i2h1) the text belongs to. |
| *ResourceKey* | varchar(200) | Resource key used to look up the text. |
| *CurrentVersion* |  | Current version of the [PageText](#h.111f5wvpr70w) entry. Used to identify the text from the [PageTextVersion](#h.cbzjky3v0trt) table. This value defaults to 0 |
| LanguageCulture | varchar(50) | If set, defines the language-culture combination this text is for. If null, defines the default or primary language-culture text. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### PageTextVersion

Contains versioned history (including current value) of text for [PageText](#h.111f5wvpr70w) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *PageTextId* | int | First part composite key identifying the [PageText](#h.111f5wvpr70w) entity the text version belongs to. |
| *Version* | int | Second part composite key identifying the version number of the text. |
| *Text* | nvarchar(max) | Text to be used on the associated [Page](#h.b7cyibj1i2h1) for the [Site](#h.efavfbiiiu9s) associated to the [PageText](#h.111f5wvpr70w) entity. |
| *UtcCreateDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. |
| CreatedBy | int | Identity of the [User](#h.9c73rxp8r85j) who inserted the version record. |

### SiteFeature

Contains configuration of [Template](#h.qe1nl0wcl9f5) wide features by [Site](#h.efavfbiiiu9s).

**NOTE:** This feature can be traced back to a [TemplateFeature](#h.ag8c1f1lh8e4) entity defined in the system database, identified by the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified by the *SiteId*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteId* | int | First part composite key identifying the [Site](#h.efavfbiiiu9s) this feature is configured for. |
| *Key* | varchar(200) | Second part composite key identifying the Feature by a meaningful name. |
| *FeatureMode* | int | Integer representing an enumeration defining the mode of the Feature (enumeration is feature specific). The default should be 0, which should mean “Disabled” for any feature. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### PageFeature

Contains configuration of [Page](#h.b7cyibj1i2h1) specific features by [Site](#h.efavfbiiiu9s).

**NOTE:** This feature can be traced back to a [TemplatePageFeature](#h.ihbqjjhcjmg9) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteId* | int | First part composite key identifying the [Site](#h.efavfbiiiu9s) this feature is configured for. |
| *PageId* | int | Second part composite key identifying the [Page](#h.b7cyibj1i2h1) this feature belongs to. |
| *Key* | varchar(200) | Third part composite key identifying the Feature by a meaningful name. |
| *FeatureMode* | int | Integer representing an enumeration defining the mode of the Feature. The default should be 0, which should mean “Disabled” for any feature. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### SiteNavigation

Defines navigation xml for menus used throughout the [Site](#h.efavfbiiiu9s).  
  
This xml will contain schema that allows insertion of specific menu elements as well as custom links and hierarchy.

The known xml elements will be replaced with xml specific to the context when being served, then the final xml will be transformed using [Template](#h.qe1nl0wcl9f5) specific xslt before being injected into the outgoing response.

**NOTE:** There must be a unique index on the following columns: *SiteId*, *NavigationKey*, *PageId*, *LanguageCulture*.

**NOTE 2:** PageId is nullable - if it is not set the xml is global to the [Site](#h.efavfbiiiu9s). If it is set, the xml is a [Page](#h.b7cyibj1i2h1) specific override of the global site xml.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteNavigationId* | int | Primary key identifier for the [SiteNavigation](#h.a5h8m7v6d3cq) entity. |
| *SiteId* | int | Identifier of the [Site](#h.efavfbiiiu9s) the xml navigation belongs to. |
| *NavigationKey* | varchar(200) | Key used to look up the navigation xml. |
| PageId | int | If set, provides a [Page](#h.b7cyibj1i2h1) specific override of the navigation xml. |
| LanguageCulture | varchar(50) | If set, defines the language-culture combination this xml menu is for. If null, defines the default or primary language-culture text. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### SiteNavigationVersion

Contains the version history (including current value) of xml for [SiteNavigation](#h.a5h8m7v6d3cq) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteNavigationId* | int | First part composite key identifying the [SiteNavigation](#h.a5h8m7v6d3cq) entity the version belongs to. |
| *Version* | int | Second part composite key identifying the version number of the navigation xml. |
| *NavigationXml* | xml (schemabound) | Contains the xml defining the navigation menu. Can be a combination of elements defining known menu features as well as elements defining custom menu items and hierarchies. |
| *UtcCreateDate* | datetime | Utc date and time of creation.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. |
| CreatedBy | int | Identity of the [User](#h.9c73rxp8r85j) who created the version. |

### PageNavigation

Defines the navigation xml for menus used on specific pages of a [Site](#h.efavfbiiiu9s).

This xml will contain schema that allows insertion of specific menu elements as well as custom links and hierarchy.

The known xml elements will be replaced with xml specific to the context when being served, then the final xml will be transformed using a [Template](#h.qe1nl0wcl9f5) and [Page](#h.b7cyibj1i2h1) specific xslt before being injected into the outgoing response.

**NOTE:** There must be a unique index on the following columns: *SiteId*, *PageId*, *NavigationKey*, *LanguageCulture*.

**NOTE 2:** This text can be traced back to [TemplatePageNavigation](#h.4t2waul8jppi) entity defined in the system database, identified by the *PageId* as well as the [Template](#h.qe1nl0wcl9f5) associated to the [Site](#h.efavfbiiiu9s) identified with the *SiteId*.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *PageNavigationId* | int | Primary key identifier for the [PageNavigation](#h.8behsz69vzp6) entity. |
| *SiteId* | int | Identifier of the [Site](#h.efavfbiiiu9s) the xml navigation belongs to. |
| *PageId* | int | Identifier of the [Page](#h.b7cyibj1i2h1) the xml navigation belongs to. |
| *NavigationKey* | varchar(200) | Key used to look up the navigation xml. |
| LanguageCulture | varchar(50) | If set, defines the language-culture combination this xml menu is for. If null, defines the default or primary language-culture text. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| ModifiedBy | int | Identity of the [User](#h.9c73rxp8r85j) who performed the last update of this entity. |

### PageNavigationVersion

Contains the version history (including current value) of xml for [PageNavigation](#h.8behsz69vzp6) entities.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *PageNavigationId* | int | First part composite key identifying the [PageNavigation](#h.8behsz69vzp6) entity the version belongs to. |
| *Version* | int | Second part composite key identifying the version number of the navigation xml. |
| *NavigationXml* | xml (schemabound) | Contains the xml defining the navigation menu. Can be a combination of elements defining known menu features as well as elements defining custom menu items and hierarchies. |
| *UtcCreateDate* | datetime | Utc date and time of creation.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. |
| CreatedBy | int | Identity of the [User](#h.9c73rxp8r85j) who created this version. |

### SiteXmlImport

Contains the details of any [Site](#h.efavfbiiiu9s) related import of client data into the system. Imports are linked to a specific xml export generated based on the import data types to allow for easy rollback of an import.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteXmlImportId* | int identity | Primary key identity of the [SiteXmlImport](#h.ops8jhixh3r3) entity. |
| *ImportTypes* | int | Flag set of types of data imported with this entity. The flag set will be defined in an enumeration with the Flag attribute set. There must be an accompanying scalar UDF that will perform appropriate bitwise operations to determine which types are set in this flag value. |
| *ImportXml* | xml (schemabound) | Xml data defining the import. Must meet the schema definition for imports (a link will be provided when the schema is defined). |
| *ImportDate* | datetime | Date of the xml import. |
| *ImportedBy* | int | Identity of the [User](#h.9c73rxp8r85j) performing the import. |
| *ExportBackupId* | int | Identity of the [SiteXmlExport](#h.8rbuhbybgl53) entity created as part of the import process. This entity will be used for any rollback actions of the import (which is an all or nothing action, no partial rollbacks). |
| ImportDescription | nvarchar(400) | Optional description of the import that the user can provide for identity purposes. |

### SiteXmlExport

Contains the details of any [Site](#h.efavfbiiiu9s) related export of client data from the system. This table is also used to backup [Site](#h.efavfbiiiu9s) data immediately prior to an import.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *SiteXmlExportId* | int identity | Primary key identity of the [SiteXmlExport](#h.8rbuhbybgl53) entity. |
| *ExportTypes* | int | Flag set of types of data exported with this entity. The flag set will be defined in an enumeration with the Flag attribute set. There must be an accompanying scalar UDF that will perform appropriate bitwise operations to determine which types are set in this flag value. |
| *ExportXml* | xml (schemabound) | Xml data defining the export. Must meet the schema definition for exports (a link will be provided when the schema is defined). |
| *ExportDate* | datetime | Date of the xml export. |
| *ExportedBy* | int | Identity of the [User](#h.9c73rxp8r85j) performing the export.  In the case of a backup generated from an import, this will be set to a system identity. |
| ExportDescription | nvarchar(400) | Optional description of the import that the user can provide for identity purposes.  In the case of a backup generated from an import, this will have a specific value that helps identify this entry as a backup. |

### StaticResource

Contains static files as unstructured data that are referenced in CSS, such as images and fonts.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| *StaticResourceId* | int identity | Primary key identity for the [StaticResource](#h.b9o37jr0yf6e) entity. |
| *FileName* | nvarchar(260) | File name of the static resource. |
| *Size* | int | Size in bytes of the static resource. |
| *MimeType* | varchar(127) | Mime type of the static resource. |
| *Data* | varbinary(max) | Actual binary content of the static resource. |
| *UtcModifiedDate* | datetime | Utc date and time of last update.  **NOTE:** This column should have a default constraint setting the initial value to to *GETUTCDATE()*. It should be updated to *GETUTCDATE*() on any data modification, perhaps by a trigger. |
| *ModifiedBy* | int | Identity of the [User](#h.9c73rxp8r85j) who last performed the last update on the entity. |