Dataedo

# Dataedo repository

## Data Dictionary

2017-05-30

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## Legend

- 🔑 Primary key
- 🔑 Primary key disabled
- 🔑 User-defined primary key
- 🔑 Unique key
- 🔑 Unique key disabled
- 🔑 User-defined unique key
- ⚡ Active trigger
- ⚡ Disabled trigger
- ➤ Primary key relation
- ➤ User-defined primary key relation
- ➤ Foreign key relation
- ➤ User-defined foreign key relation
- ⇥@ Input
- @⇥ Output
- ⇥@⇥ Input/Output
- $N$ Nullable

# 1. Dataedo repository

Dataedo 5.2 repository database documentation. Dataedo repository is SQL Server database that holds all imported database schemas and user created descriptions.

# 2. Schema and Metadata
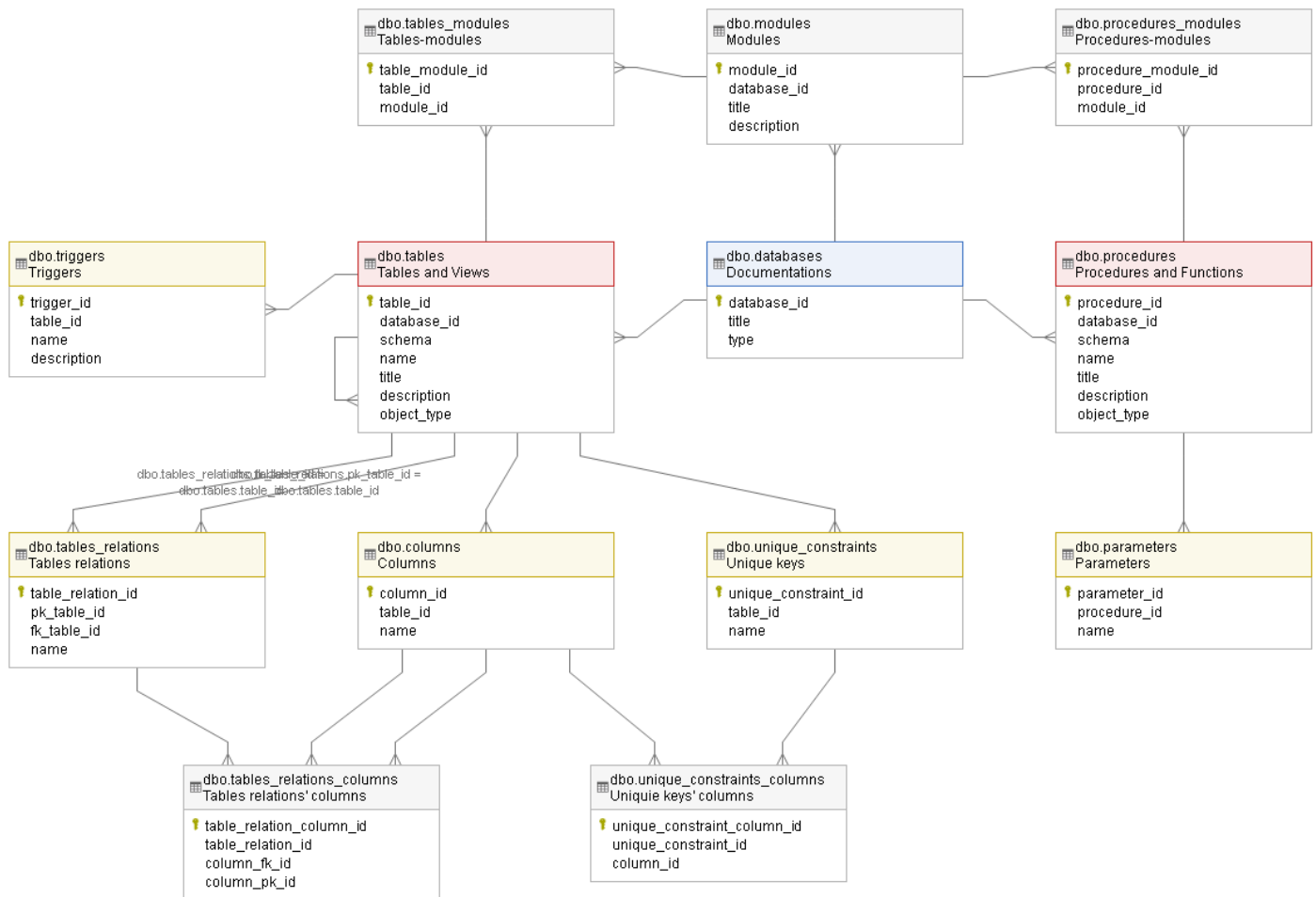


All documented database objects are stored in Dataedo repository.

Distinct database documentations are stored in **databases** table which holds their title and DBMS connection details.

### Object status

Tables, views, columns, procedures, functions and parameters can be in one of two states identified by *status* column:

- active ('A')- object exists in source database or
- deleted ('B') - object has been deleted from source database. It is still visible in Dataedo Editor but is not included in exported documentation.

When object gets deleted with editor it gets physically deleted from Dataedo tables. There is no way to undelete it.

### Standard metadata columns

Every table has following metadata columns that describe who and when created and last updated data in repository:

- creation_date - timestamp of row's creation in Dataedo repository
- created_by - Dataedo user name that created the row in Dataedo repository
- last_modification_date - timestamp of row's last update in Dataedo repository
- modified_by - Dataedo user name that last updated the row in Dataedo repository

### DBMS import columns

Tables, views, procedures and functions have following metadata columns that facilitate change tracking and database schema updates:

- dbms_creation_date - timestamp of object creation in source database
- dbms_last_modification_date - timestamp of last object modification in source database
- synchronization_date - timestamp of last object update/import from source database
- synchronized_by - name of user that last updated/imported object from source database

**Object source**

Objects representing data stuctures (tables, columns, relations etc) can have following sources identified by *source* column:

- 'DBMS' - object was imported from database schema,
- 'USER' - object was created by user in repository with Dataedo Editor and does not exist in database schema.

# 2.1. Tables

## 2.1.1. Table: dbo.columns (Columns)

Holds tables' and views' columns.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | column_id | int | | Row ID.<br>Identity / Auto increment column |
| | table_id | int | | Table to which column belongs. |
| | ordinal_position | int | | Position of column in table. |
| | name | nvarchar(250) | | Column name in DBMS. |
| | title | nvarchar(250) | *N* | Column alternative title. |
| | description | nvarchar(MAX) | *N* | Column description in Dataedo. Description is imported from database at first import and during schema update, but only if it was empty. |
| | datatype | nvarchar(250) | *N* | Column data type. |
| | data_length | nvarchar(50) | *N* | Data length/precision as text. Depending on data type it can have different formats, e.g. "100", "5,4", "MAX" etc. Null if column has no length/precision defined. |
| | primary_key | char(1) | | 1 if column is part of primary key, 0 otherwise<br>Default: 0 |
| | nullable | bit | | 1 if column is nullable, 0 otherwise<br>Default: 1 |
| | default_def | nvarchar(4000) | *N* | Default value definition. |
| | identity_def | nvarchar(50) | *N* | Identity definition (e.g. "1, 1"). SQL Server only. |
| | status | char(1) | | 'D' if column was deleted in DBMS, 'A' otherwise. Deleted columns aren't exported to documentation.<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| | default_value | nvarchar(MAX) | *N* | Formula of column defalut value. NULL if field has not default value specification. |
| | is_identity | bit | | Is column an identity/auto incremented column. 1 - identity/auto increment, 0 - otherwise.<br>Default: 0 |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| is_computed | bit | | Is column a computed column. 1 - computed column, 0 - regular column. If column is computed, you should expect that calculation formula is imported to computed_formula field<br>Default: 0 |
| computed_formula | nvarchar(MAX) | $N$ | Calculation formula for computed columns. NULL for regular fields. |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.tables (Tables and Views) | **dbo.columns.**table_id = dbo.tables.table_id | FK_column_table |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ⊣ | dbo.erd_nodes_columns (ERD Nodes Columns) | **dbo.columns.**column_id = dbo.erd_nodes_columns.column_id | FK_erd_nodes_columns_columns |
| ⊣ | dbo.tables_relations_columns (Tables relations' columns) | **dbo.columns.**column_id = dbo.tables_relations_columns.column_fk_id | FK_tables_relations_columns_column_fk |
| ⊣ | dbo.tables_relations_columns (Tables relations' columns) | **dbo.columns.**column_id = dbo.tables_relations_columns.column_pk_id | FK_tables_relations_columns_column_pk |
| ⊣ | dbo.unique_constraints_columns (Uniquie keys' columns) | **dbo.columns.**column_id = dbo.unique_constraints_columns.column_id | FK_unique_constraints_columns_columns |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | column_id | PK_columns<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_columns_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns. |

## Uses

| Name |
|---|
| ⊞ **dbo.columns  (Columns)** |
| ⊞ dbo.tables  (Tables and Views) |

## Used by

| Name |
|---|
| ⊞ **dbo.columns  (Columns)** |
| ⊞ dbo.erd_nodes_columns  (ERD Nodes Columns) |
| ⊞ dbo.tables_relations_columns  (Tables relations' columns) |
| ⊞ dbo.tables_relations_columns  (Tables relations' columns) |
| ⊞ dbo.unique_constraints_columns  (Uniquie keys' columns) |

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## 2.1.2. Table: dbo.databases (Documentations)

Holds Dataedo documentations and their connection details.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | database_id | int | | Row ID.<br>Identity / Auto increment column |
| | title (Documentation title) | nvarchar(250) | | Documentation title. |
| | type (DBMS) | nvarchar(100) | *N* | DBMS type: ORACLE, SQLSERVER, etc. |
| | name (Database name) | nvarchar(1024) | *N* | Database/schema name. |
| | user | nvarchar(1024) | *N* | Username used to connect to database. |
| | password | nvarchar(1024) | *N* | Encrypted password, null if not saved. |
| | windows_authentication | bit | *N* | 1 if Windows authentication for SQL Server |
| | different_schema | bit | *N* | 1 if user selected schema different than user (Oracle only), 0 otherwise |
| | connection_type | nvarchar(100) | *N* | Oracle connection type: BASIC for host/port/service name, TNS for network alias |
| | host | nvarchar(1024) | *N* | Host name/address. |
| | port | int | *N* | Port for Oracle connection. |
| | service_name | nvarchar(100) | *N* | Service name for Oracle connection. |
| | network_alias | nvarchar(100) | *N* | Network alias for Oracle TNS connection. |
| | description | nvarchar(MAX) | *N* | Documentation/database introduction to be included in documentation. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| | description_search | nvarchar(MAX) | *N* | Column used for searching, holds description as plain text. Description column contains HTML tags and images that would interfere with searching. |
| | filter | nvarchar(MAX) | *N* | Import filter definiton saved in XML format. |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ⤙ | dbo.dependencies_descriptions (Dependencies descriptions) | **dbo.databases**.database_id = dbo.dependencies_descriptions.database_id | FK_dependencies_desrciptions_databases |
| ⤙ | dbo.ignored_objects (Ignored objects) | **dbo.databases**.database_id = dbo.ignored_objects.database_id | FK_ignored_objects_databases |
| ⤙ | dbo.modules (Modules) | **dbo.databases**.database_id = dbo.modules.database_id | FK_modules_database |
| ⤙ | dbo.procedures (Procedures and Functions) | **dbo.databases**.database_id = dbo.procedures.database_id | FK_procedures_database |

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ◄ | dbo.tables (Tables and Views) | **dbo.databases**.database_id = dbo.tables.database_id | FK_tables_database |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | database_id | PK_databases<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_databases_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns. |

## Used by

| Name |
|---|
| ▦ **dbo.databases  (Documentations)** |
| ▦ dbo.dependencies_descriptions  (Dependencies descriptions) |
| ▦ dbo.ignored_objects  (Ignored objects) |
| ▦ dbo.modules  (Modules) |
| ▦ dbo.procedures  (Procedures and Functions) |
| ▦ dbo.tables  (Tables and Views) |

## 2.1.3.  Table: dbo.modules (Modules)

Database modules defined with Dataedo. Modules exist solely in Dataedo documentation repository and are used for logical grouping of database objects.

### Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | module_id | int | | Row ID.<br>Identity / Auto increment column |
| | database_id | int | | Documentation module is part of. Ref. databases. |
| | ordinal_position | int | *N* | Posiotion of module in a list. By default null. Value assigned for all when sorted. If null then ordered by title. |
| | title | nvarchar(250) | | Module name/title. |
| | description | nvarchar(MAX) | *N* | Module introduction to be included in documentation. |
| | creation_date | datetime | | Stanadard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Stanadard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| | description_search | nvarchar(MAX) | *N* | Column used for searching, holds description as plain text. Description column contains HTML tags and images that would interfere searching. |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| erd_link_style | nvarchar(25) | *N* | Default link ERD style. See erd_links.link_style for details.<br>Default: N'STRAIGHT' |
| erd_show_types | bit | *N* | Flag indicating if entities in ERD include data types. 1 - show, 0 - don't show. Default is 0.<br>Default: 0 |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.databases (Documentations) | **dbo.modules.**database_id = dbo.databases.database_id | FK_modules_database |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ⊰ | dbo.erd_links (ERD Links) | **dbo.modules.**module_id = dbo.erd_links.module_id | FK_erd_links_modules |
| ⊰ | dbo.erd_nodes (ERD Nodes) | **dbo.modules.**module_id = dbo.erd_nodes.module_id | FK_erd_nodes_modules |
| ⊰ | dbo.erd_nodes_columns (ERD Nodes Columns) | **dbo.modules.**module_id = dbo.erd_nodes_columns.module_id | FK_erd_nodes_columns_modules |
| ⊰ | dbo.procedures_modules (Procedures-modules) | **dbo.modules.**module_id = dbo.procedures_modules.module_id | FK_procedures_modules_module |
| ⊰ | dbo.tables_modules (Tables-modules) | **dbo.modules.**module_id = dbo.tables_modules.module_id | FK_tables_modules_module |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | module_id | PK_modules<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_modules_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ **dbo.modules  (Modules)** |
| ▦ dbo.databases  (Documentations) |

## Used by

| Name |
|---|
| ▦ **dbo.modules  (Modules)** |
| ▦ dbo.erd_links  (ERD Links) |
| ▦ dbo.erd_nodes  (ERD Nodes) |
| ▦ dbo.erd_nodes_columns  (ERD Nodes Columns) |
| ▦ dbo.procedures_modules  (Procedures-modules) |

| Name |
|---|
| ⊞ dbo.tables_modules (Tables-modules) |

## 2.1.4. Table: dbo.parameters (Parameters)

Function and procedure parameters.

### Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | parameter_id | int | | Row ID.<br>Identity / Auto increment column |
| | procedure_id | int | | Parameter's procedure. |
| | ordinal_position | int | | Position of parameter in parameters list |
| | parameter_mode | nvarchar(10) | | IN, OUT, INOUT |
| | name | nvarchar(250) | | Parameter name in DBMS. "Returns" for functions output. |
| | description | nvarchar(MAX) | *N* | Parameter description defined with Dataedo. |
| | datatype | nvarchar(250) | *N* | Column data type. |
| | data_length | nvarchar(20) | *N* | Data length/precision as text. Depending on data type it can have different formats, e.g. "100", "5,4", "MAX" etc. Null if parameter has no length/precision defined. |
| | status | char(1) | | 'D' if parameter was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

### Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.procedures (Procedures and Functions) | **dbo.parameters.**procedure_id = dbo.procedures.procedure_id | FK_parameters_procedures |

### Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | parameter_id | PK_parameters<br>Table primary key. |

### Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_parameters_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

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## Uses

| Name |
| --- |
| ▦ dbo.parameters  (Parameters) |
|    ▦ dbo.procedures  (Procedures and Functions) |

## 2.1.5.  Table: dbo.procedures (Procedures and Functions)

Database stored procedures and functions.

Procedures and functions are distinguished by *object_type* column with 'PROCEDURE' and 'FUNCTION' values.

## Columns

| | Name | Data type | N | Description / Attributes |
| --- | --- | --- | --- | --- |
| 🔑 | procedure_id | int | | Row ID.<br>Identity / Auto increment column |
| | database_id | int | | Documentation which object is part of. Ref: databases. |
| | schema | nvarchar(250) | *N* | DBMS schema name. |
| | name | nvarchar(250) | | Object DBMS name. |
| | title | nvarchar(250) | *N* | Alternative object title defined with Dataedo. |
| | description | nvarchar(MAX) | *N* | Procedure/function description defined with Dataedo. |
| | object_type | nvarchar(100) | | Database object type. ''PROCEDURE' for procedures, 'FUNCTION' for functions. |
| | definition | nvarchar(MAX) | *N* | Procedure/function script imported from DBMS. |
| | status | char(1) | | 'D' if procedure/function was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| | dbms_creation_date | datetime | *N* | Time procedure/function was created in DBMS. |
| | dbms_last_modification_date | datetime | *N* | Time procedure/function was last updated in DBMS. |
| | synchronization_date | datetime | *N* | Time of last object update/import from DBMS. |
| | synchronized_by | nvarchar(100) | *N* | Login of user that last updated/imported the object from DBMS. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| | function_type | nvarchar(100) | *N* | Type of function as defined in DBMS, eg. "Table-valued", "Scalar-valued". |
| | exists_in_DBMS | bit | *N* | A flag which denotes if an object exists in DBMS. Used during synchronization. |
| | description_search | nvarchar(MAX) | *N* | Column used for searching, holds description as plain text. Description column contains HTML tags and images that would interfere searching. |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.databases (Documentations) | **dbo.procedures.**database_id = dbo.databases.database_id | FK_procedures_database |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ← | dbo.parameters (Parameters) | **dbo.procedures.**procedure_id = dbo.parameters.procedure_id | FK_parameters_procedures |
| ← | dbo.procedures_modules (Procedures-modules) | **dbo.procedures.**procedure_id = dbo.procedures_modules.procedure_id | FK_procedures_modules_procedure |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | procedure_id | PK_procedures<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_procedures_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ **dbo.procedures  (Procedures and Functions)** |
| ▦ dbo.databases  (Documentations) |

## Used by

| Name |
|---|
| ▦ **dbo.procedures  (Procedures and Functions)** |
| ▦ dbo.parameters  (Parameters) |
| ▦ dbo.procedures_modules  (Procedures-modules) |

## 2.1.6.  Table: dbo.procedures_modules (Procedures-modules)

Many-to-many relationship of procedures and modules.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | procedure_module_id | int | | Row ID.<br>Identity / Auto increment column |
| | procedure_id | int | | Ref: procedures. |
| | module_id | int | | Ref: modules. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.modules (Modules) | **dbo.procedures_modules.**module_id = dbo.modules.module_id | FK_procedures_modules_module |
| ➤ | dbo.procedures (Procedures and Functions) | **dbo.procedures_modules.**procedure_id = dbo.procedures.procedure_id | FK_procedures_modules_procedure |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | procedure_module_id | PK_procedures_modules<br>Table primary key. |
| 🔑 | procedure_id, module_id | UK_procedures_modules<br>Procedure-module combination must be unique. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_procedures_modules_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ dbo.procedures_modules  (Procedures-modules) |
|   ▦ dbo.modules  (Modules) |
|   ▦ dbo.procedures  (Procedures and Functions) |

## 2.1.7.  Table: dbo.tables (Tables and Views)

Database tables and views.

Tables and views are distinguished by *object_type* column with 'TABLE' and 'VIEW' values.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | table_id | int | | Row ID.<br>Identity / Auto increment column |
| | database_id | int | | Documentation which object is part of. Ref: databases. |
| | schema | nvarchar(250) | *N* | DBMS schema name. |
| | name | nvarchar(250) | | Object DBMS name. |
| | title | nvarchar(250) | *N* | Alternative object title defined with Dataedo. |
| | description | nvarchar(MAX) | *N* | Table/view description defined with Dataedo. |
| | object_type | nvarchar(100) | | Database object type. 'TABLE' for tables, 'VIEW' for views. |
| | definition | nvarchar(MAX) | *N* | View script imported from DBMS. Empty for tables. |

| Name | Data type | N | Description / Attributes |
|------|-----------|---|-------------------------|
| status | char(1) | | 'D' if table/view was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| dbms_creation_date | datetime | *N* | Time table/view was created in DBMS. |
| dbms_last_modification_date | datetime | *N* | Time table/view was last updated in DBMS. |
| synchronization_date | datetime | *N* | Time of last object update/import from DBMS. |
| synchronized_by | nvarchar(100) | *N* | Login of user that last updated/imported the object from DBMS. |
| creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| exists_in_DBMS | bit | *N* | A flag which denotes if an object exists in DBMS. Used during update. |
| description_search | nvarchar(MAX) | *N* | Column used for searching, holds description as plain text. Description column contains HTML tags and images that would interfere with searching. |

## Links to

| Table | Join | Title / Name / Description |
|-------|------|----------------------------|
| dbo.databases (Documentations) | **dbo.tables.**database_id = dbo.databases.database_id | FK_tables_database |
| dbo.tables (Tables and Views) | **dbo.tables.**table_id = dbo.tables.table_id | FK_tables_tables |

## Linked from

| Table | Join | Title / Name / Description |
|-------|------|----------------------------|
| dbo.tables (Tables and Views) | **dbo.tables.**table_id = dbo.tables.table_id | FK_tables_tables |
| dbo.columns (Columns) | **dbo.tables.**table_id = dbo.columns.table_id | FK_column_table |
| dbo.erd_nodes (ERD Nodes) | **dbo.tables.**table_id = dbo.erd_nodes.table_id | FK_erd_nodes_tables |
| dbo.tables_modules (Tables-modules) | **dbo.tables.**table_id = dbo.tables_modules.table_id | FK_tables_modules_tables |
| dbo.tables_relations (Tables relations) | **dbo.tables.**table_id = dbo.tables_relations.fk_table_id | Foreign table<br>FK_tables_relations_table_fk |
| dbo.tables_relations (Tables relations) | **dbo.tables.**table_id = dbo.tables_relations.pk_table_id | Primary table<br>FK_tables_relations_table_pk |
| dbo.triggers (Triggers) | **dbo.tables.**table_id = dbo.triggers.table_id | FK_triggers_table |
| dbo.unique_constraints (Unique keys) | **dbo.tables.**table_id = dbo.unique_constraints.table_id | FK_unique_constraints_tables |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | table_id | PK_tables<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_tables_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ⊞ **dbo.tables  (Tables and Views)** |
| ⊞  dbo.databases  (Documentations) |
| ⊞  dbo.tables  (Tables and Views) |

## Used by

| Name |
|---|
| ⊞ **dbo.tables  (Tables and Views)** |
| ⊞  dbo.columns  (Columns) |
| ⊞  dbo.erd_nodes  (ERD Nodes) |
| ⊞  dbo.tables  (Tables and Views) |
| ⊞  dbo.tables_modules  (Tables-modules) |
| ⊞  dbo.tables_relations  (Tables relations)  (Foreign table) |
| ⊞  dbo.tables_relations  (Tables relations)  (Primary table) |
| ⊞  dbo.triggers  (Triggers) |
| ⊞  dbo.unique_constraints  (Unique keys) |

## 2.1.8.   Table: dbo.tables_modules (Tables-modules)

Many-to-many relationship of tables and modules.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | table_module_id | int | | Row ID.<br>Identity / Auto increment column |
| | table_id | int | | Ref: tables. |
| | module_id | int | | Ref: modules. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.modules (Modules) | **dbo.tables_modules.**module_id = dbo.modules.module_id | FK_tables_modules_module |
| ✈ | dbo.tables (Tables and Views) | **dbo.tables_modules.**table_id = dbo.tables.table_id | FK_tables_modules_tables |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | table_module_id | PK_tables_modules<br>Table primary key. |
| 🔑 | table_id, module_id | UK_tables_modules<br>Table-module combination must be unique. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_tables_modules_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ dbo.tables_modules  (Tables-modules) |
|    ▦ dbo.modules  (Modules) |
|    ▦ dbo.tables  (Tables and Views) |

## 2.1.9.   Table: dbo.tables_relations (Tables relations)

Holds foreign keys, either defined in DBMS or by user in Dataedo. The two types are distinguished by source column (DBMS/USER).

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | table_relation_id | int | | Row ID.<br>Identity / Auto increment column |
| | pk_table_id | int | | Primary key table. Ref: tables. |
| | fk_table_id | int | | Foreign key table. Ref: tables. |
| | source | nvarchar(50) | | 'DBMS' for imported from DBMS, 'USER' for defined by user in repository only<br>Default: 'USER' |
| | name | nvarchar(250) | | Relation name from DBMS or assigned by user if relation is user defined. |
| | description | nvarchar(MAX) | *N* | Relation description defined with Dataedo. |
| | status | char(1) | | 'D' if relation was deleted from DBMS, 'A' otherwise.<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: user_name() |

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| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: user_name() |
| update_rule | nvarchar(100) | *N* | Update rule as defined in DBMS: NO ACTION, SET NULL, CASCADE |
| delete_rule | nvarchar(100) | *N* | Update rule as defined in DBMS: NO ACTION, SET NULL, CASCADE |
| disabled | bit | *N* | 1 when imported key is disabled (only DBMS). |
| title | nvarchar(250) | *N* | |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.tables (Tables and Views) | **dbo.tables_relations.**fk_table_id = dbo.tables.table_id | Foreign table<br>FK_tables_relations_table_fk |
| ➤ | dbo.tables (Tables and Views) | **dbo.tables_relations.**pk_table_id = dbo.tables.table_id | Primary table<br>FK_tables_relations_table_pk |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.erd_links (ERD Links) | **dbo.tables_relations.**table_relation_id = dbo.erd_links.relation_id | FK_erd_links_tables_relations |
| ➤ | dbo.tables_relations_columns (Tables relations' columns) | **dbo.tables_relations.**table_relation_id = dbo.tables_relations_columns.table_relation_id | FK_tables_relations_columns_relation |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | table_relation_id | PK_tables_relations<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_tables_relations_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ dbo.tables_relations  (Tables relations) |
| ▦ dbo.tables  (Tables and Views)  (Foreign table) |
| ▦ dbo.tables  (Tables and Views)  (Primary table) |

## Used by

| Name |
|---|
| ▦ dbo.tables_relations  (Tables relations) |
| ▦ dbo.erd_links  (ERD Links) |
| ▦ dbo.tables_relations_columns  (Tables relations' columns) |

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## 2.1.10. Table: dbo.tables_relations_columns (Tables relations' columns)

Stores foreign keys columns. Each row represents one column pair: column_fk_id and column_pk_id.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | table_relation_column_id | int | | Row ID.<br>Identity / Auto increment column |
| | table_relation_id | int | | Link to table relation row. |
| | column_fk_id | int | | Foreign table column ID. |
| | column_pk_id | int | | Primary table column ID. |
| | ordinal_position | int | | Column position in relation. |
| | status | char(1) | | 'D' if relation column was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.columns (Columns) | dbo.**tables_relations_columns**.column_fk_id = dbo.columns.column_id | FK_tables_relations_columns_column_fk |
| ➤ | dbo.columns (Columns) | dbo.**tables_relations_columns**.column_pk_id = dbo.columns.column_id | FK_tables_relations_columns_column_pk |
| ➤ | dbo.tables_relations (Tables relations) | dbo.**tables_relations_columns**.table_relation_id = dbo.tables_relations.table_relation_id | FK_tables_relations_columns_relation |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | table_relation_column_id | PK_tables_relations_columns<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_tables_relations_cols_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
| --- |
| ▦ dbo.tables_relations_columns  (Tables relations' columns) |
|    ▦ dbo.columns  (Columns) |
|    ▦ dbo.columns  (Columns) |
|    ▦ dbo.tables_relations  (Tables relations) |

## 2.1.11.  Table: dbo.triggers (Triggers)

Holds table triggers.

## Columns

| | Name | Data type | N | Description / Attributes |
| --- | --- | --- | --- | --- |
| 🔑 | trigger_id | int | | Row ID.<br>Identity / Auto increment column |
| | table_id | int | | Table the trigger is related to. Ref: tables. |
| | name | nvarchar(250) | | Trigger name. |
| | description | nvarchar(MAX) | *N* | Trigger description defined with Dataedo. |
| | before | bit | | Is triggered before (1 - yes)<br>Default: 0 |
| | after | bit | | Is triggered after (1 - yes)<br>Default: 0 |
| | instead_of | bit | | Is triggered instead of (1 - yes)<br>Default: 0 |
| | on_insert | bit | | Is triggered on insert (1 - yes)<br>Default: 0 |
| | on_update | bit | | Is triggered on update (1 - yes)<br>Default: 0 |
| | on_delete | bit | | Is triggered on delete (1 - yes)<br>Default: 0 |
| | disabled | bit | | Is disabled (1 - yes)<br>Default: 0 |
| | definition | nvarchar(MAX) | *N* | Trigger script imported from DBMS. |
| | status | char(1) | | 'D' if trigger was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: user_name() |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: user_name() |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.tables (Tables and Views) | **dbo.triggers.**table_id = dbo.tables.table_id | FK_triggers_table |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | trigger_id | PK_triggers<br>Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_triggers_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ⊞ **dbo.triggers** (Triggers) |
|     ⊞ dbo.tables (Tables and Views) |

## 2.1.12.  Table: dbo.unique_constraints (Unique keys)

Holds table unique keys, either defined in DBMS or by user in Dataedo. The two types are distinguished by source column (DBMS/USER).

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | unique_constraint_id | int | | Row ID.<br>Identity / Auto increment column |
| | table_id | int | | Table to which unique key belongs. |
| | source | nvarchar(50) | | 'DBMS' for imported from DBMS, 'USER' for defined by user in repository only.<br>Default: 'USER' |
| | name | nvarchar(250) | | Unique constraint name from DBMS or assigned by user if constraint is user defined. |
| | description | nvarchar(MAX) | *N* | Unique key description defined with Dataedo. |
| | primary_key | bit | | 1 when key is primary key, 0 when regular unique key |
| | status | char(1) | | 'D' if unique key was deleted from DBMS, 'A' otherwise<br>Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: user_name() |
| | last_modification_date | datetime | | Stanadard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: user_name() |
| | disabled | bit | *N* | 1 when imported key is disabled (only DBMS) |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.tables (Tables and Views) | **dbo.unique_constraints.**table_id = dbo.tables.table_id | FK_unique_constraints_tables |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ◂ | dbo.unique_constraints_columns (Uniquie keys' columns) | **dbo.unique_constraints.**unique_constraint_id = dbo.unique_constraints_columns.unique_constraint_id | FK_unique_constraints_columns_unique_constraints |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | unique_constraint_id | PK_unique_constraints <br> Table primary key. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_unique_constraints_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ⊞ **dbo.unique_constraints**  (Unique keys) |
|    ⊞ dbo.tables  (Tables and Views) |

## Used by

| Name |
|---|
| ⊞ **dbo.unique_constraints**  (Unique keys) |
|    ⊞ dbo.unique_constraints_columns  (Uniquie keys' columns) |

## 2.1.13.   Table: dbo.unique_constraints_columns (Uniquie keys' columns)

Stores unique key columns.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | unique_constraint_column_id | int | | Row ID. <br> Identity / Auto increment column |
| | unique_constraint_id | int | | Ref: unique key. |
| | column_id | int | | Ref: table/view column. |
| | ordinal_position | int | | Column position in index/constraint. |
| | status | char(1) | | 'D' if unique key column was deleted from DBMS, 'A' otherwise <br> Default: 'A' |
| | creation_date | datetime | | Standard row creation timestamp. <br> Default: getdate() |

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| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: user_name() |
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: user_name() |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ✈ | dbo.columns (Columns) | **dbo.unique_constraints_columns.**column_id = dbo.columns.column_id | FK_unique_constraints_columns_columns |
| ✈ | dbo.unique_constraints (Unique keys) | **dbo.unique_constraints_columns.**unique_constraint_id = dbo.unique_constraints.unique_constraint_id | FK_unique_constraints_columns_unique_constraints |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | unique_constraint_column_id | PK_unique_constraints_columns<br>Table primary key |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_unique_constraints_cols_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## Uses

| Name |
|---|
| ▦ **dbo.unique_constraints_columns  (Uniquie keys' columns)** |
|    ▦ dbo.columns  (Columns) |
|    ▦ dbo.unique_constraints  (Unique keys) |

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# 3. ERDs
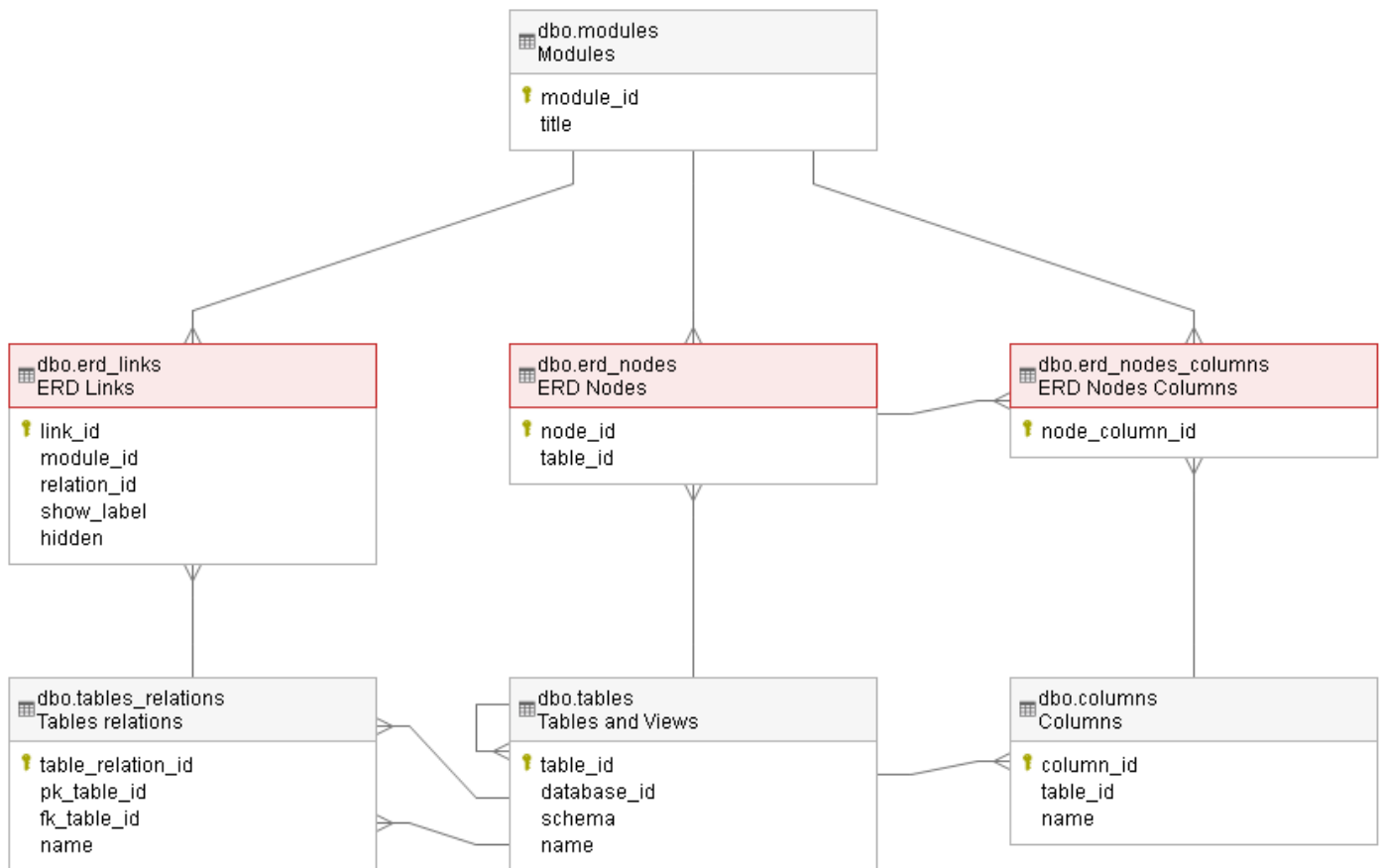


Tables describing ERD objects, their position and links.

## 3.1. Tables

### 3.1.1. Table: dbo.erd_links (ERD Links)

Represents relationships between entities in a specific ERD. Every ERD relationship references a relation defined beteween tables/views in a Dataedo repository.
This relation is either an imported foreign key defined in source database or a user-defined one in Dataedo repository through ERD or Relations tab.

Each relationship is linked to table/view relations in *tables_relations* table with *relation_id* column. ERD is identified by *module_id* column.

Holds information about link style, link visibility and label visibility.

### Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | link_id | int | | Row ID<br>Identity / Auto increment column |
| | module_id | int | | Identifer of ERD. Ref: modules table. |
| | relation_id | int | | Reference to relation that is represented on diagram. Ref: tables_relations table. |
| | label_pos_x | int | *N* | |
| | label_pos_y | int | *N* | |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| show_label | bit | | If 1 then relationship label is displayed in ERD. Default value is 0.<br>Default: 0 |
| creation_date | datetime | | Standard row creation timestamp<br>Default: getdate() |
| created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |
| hidden | bit | | If 1 then relationship is hidden in ERD. Default value is 0.<br>Default: 0 |
| link_style | nvarchar(25) | | 'STRAIGHT' for a straight link style and 'ORTHOGONAL' for orthogonal one. The former is default.<br>Default: 'STRAIGHT' |
| show_join_condition | bit | *N* | Default: 0 |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ⤳ | dbo.modules (Modules) | **dbo.erd_links.**module_id = dbo.modules.module_id | FK_erd_links_modules |
| ⤳ | dbo.tables_relations (Tables relations) | **dbo.erd_links.**relation_id = dbo.tables_relations.table_relation_id | FK_erd_links_tables_relations |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | link_id | PK_erd_links<br>Table primary key. |
| 🔑 | module_id, relation_id | UK_erd_links_relation |

## Uses

| Name |
|---|
| ▦ **dbo.erd_links**  (ERD Links) |
|   ▦ dbo.modules  (Modules) |
|   ▦ dbo.tables_relations  (Tables relations) |

### 3.1.2.   Table: dbo.erd_nodes (ERD Nodes)

Represents entity (table or view) in a specific ERD. Each node is linked to a table/view in *tables* table with *table_id* column.
ERD is identified by *module_id* column.

Holds information about node position and color.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | node_id | int | | Row ID.<br>Identity / Auto increment column |
| | module_id | int | | Identifier of ERD. Ref: modules table. |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| table_id | int | | Reference to table/view that is represented on diagram. Ref: tables table. |
| pos_x | int | *N* | X position on diagram. 0 is the center of a diagram. Can be negative. |
| pos_y | int | *N* | Y position on diagram. 0 is the center of a diagram. Can be negative. |
| color | char(7) | *N* | Box color. Eg. #4CAF50 |
| width | int | *N* | Box width. |
| height | int | *N* | Box height. Currently not used. |
| creation_date | datetime | | Standard row creation timestamp. Default: getdate() |
| created_by | nvarchar(100) | *N* | Database/Dataedo username that created row. Default: NULL |
| last_modification_date | datetime | | Standard row last update timestamp. Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row. Default: NULL |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.modules (Modules) | **dbo.erd_nodes.**module_id = dbo.modules.module_id | FK_erd_nodes_modules |
| ➤ | dbo.tables (Tables and Views) | **dbo.erd_nodes.**table_id = dbo.tables.table_id | FK_erd_nodes_tables |

## Linked from

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ◀ | dbo.erd_nodes_columns (ERD Nodes Columns) | **dbo.erd_nodes.**node_id = dbo.erd_nodes_columns.node_id | FK_erd_nodes_columns_erd_nodes |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | node_id | PK_erd_nodes Table primary key. |
| 🔑 | module_id, table_id | uK_erd_nodes_table |

## Uses

| Name |
|---|
| ▦ **dbo.erd_nodes  (ERD Nodes)** |
| ▦ dbo.modules  (Modules) |
| ▦ dbo.tables  (Tables and Views) |

## Used by

| Name |
|---|
| ▦ **dbo.erd_nodes  (ERD Nodes)** |
| ▦ dbo.erd_nodes_columns  (ERD Nodes Columns) |

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### 3.1.3. Table: dbo.erd_nodes_columns (ERD Nodes Columns)

Holds information about visible table/view columns on an ERD - if a column is in this table then it is visible on a diagram.
ERD is identified by *module_id* column. *Column_id* references *columns* table.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | node_column_id | int | | Row ID.<br>Identity / Auto increment column |
| | module_id | int | | Identifier of ERD. Ref: modules table. |
| | node_id | int | | Ref: erd_nodes table. |
| | column_id | int | | Ref: columns table. |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.columns (Columns) | **dbo.erd_nodes_columns.**column_id = dbo.columns.column_id | FK_erd_nodes_columns_columns |
| ➤ | dbo.erd_nodes (ERD Nodes) | **dbo.erd_nodes_columns.**node_id = dbo.erd_nodes.node_id | FK_erd_nodes_columns_erd_nodes |
| ➤ | dbo.modules (Modules) | **dbo.erd_nodes_columns.**module_id = dbo.modules.module_id | FK_erd_nodes_columns_modules |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | node_column_id | PK_erd_nodes_columns |

## Uses

| Name |
|---|
| ▦ **dbo.erd_nodes_columns**  (ERD Nodes Columns) |
| ▦ dbo.columns  (Columns) |
| ▦ dbo.erd_nodes  (ERD Nodes) |
| ▦ dbo.modules  (Modules) |

# 4. Dependencies

Structure for storing object dependencies.
Currently not used.

## 4.1. Tables

### 4.1.1. Table: dbo.dependencies (Dependencies)

Object dependencies imported from source database.

It links two objects of various types - tables, views, procedures, functions and triggers. There is *referencing* object and *referenced* object. *Referencing* object depends on *referenced* object.

Because those objects may not be imported to repository or exist in other databases foreign and primary keys are not used. A combination of fields is used to identify object: server, database, schema, name and type.

Please note that unlike most of other tables, rows in this one are not related to any specific documentation/database.

### Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | dependency_id | int | | Row ID.<br>Identity / Auto increment column |
| | referencing_server | nvarchar(250) | N | Referencing object server name. |
| | referencing_database | nvarchar(250) | N | Referencing object database name. |
| | referencing_schema | nvarchar(250) | N | Referencing object schema name. |
| | referencing_name | nvarchar(250) | | Referencing object name. |
| | referencing_type | nvarchar(50) | | Referencing object type: TABLE, VIEW, PROCEDURE, FUNCTION, TRIGGER |
| | referenced_server | nvarchar(250) | N | Referenced object server name. |
| | referenced_database | nvarchar(250) | N | Referenced object database name. |
| | referenced_schema | nvarchar(250) | N | Referenced object schema name. |
| | referenced_name | nvarchar(250) | | Referenced object name. |
| | referenced_type | nvarchar(50) | N | Referenced object type: TABLE, VIEW, PROCEDURE, FUNCTION, TRIGGER |
| | is_caller_dependent | char(1) | N | |
| | is_ambiguous | char(1) | N | |
| | dependency_type | nvarchar(10) | N | Dependency type imported from DBMS. |
| | status | char(1) | | Default: 'A' |
| | source | nvarchar(50) | | Default: 'DBMS' |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | N | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | N | Database/Dataedo username that last updated row.<br>Default: NULL |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | dependency_id | PK_dependencies<br>Table primary key. |

## 4.1.2.  Table: dbo.dependencies_descriptions (Dependencies descriptions)

Descriptions of dependencies elements provided in Dataedo repository.

In contrast with dependencies, dependency descriptions are related to a specific documentation/database. Same dependency may have different descriptions if dependency is between objects in two different databases.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | dependency_descriptions_id | int | | Row ID.<br>Identity / Auto increment column |
| | database_id | int | | Documentation which description is part of. Ref: databases. |
| | referencing_server | nvarchar(250) | *N* | Referencing object server name. |
| | referencing_database | nvarchar(250) | *N* | Referencing object database name. |
| | referencing_schema | nvarchar(250) | *N* | Referencing object schema name. |
| | referencing_name | nvarchar(250) | | Referencing object name. |
| | referencing_type | nvarchar(50) | | Referencing object type. |
| | referenced_server | nvarchar(250) | *N* | Referenced object server name. |
| | referenced_database | nvarchar(250) | *N* | Referenced object database name. |
| | referenced_schema | nvarchar(250) | *N* | Referenced object schema name. |
| | referenced_name | nvarchar(250) | | Referenced object name. |
| | referenced_type | nvarchar(50) | *N* | Referenced object type. |
| | description | nvarchar(MAX) | *N* | Description provided by user in repository. |
| | ordinal_position_uses | int | *N* | Position used in sorting elements on dependencies list in a tree in uses tab. |
| | ordinal_position_used_by | int | *N* | Position used in sorting elements on dependencies list in a tree in used by tab. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.databases (Documentations) | **dbo.dependencies_descriptions.datab ase_id** = dbo.databases.database_id | FK_dependencies_desrciptions_databases |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | dependency_descriptions_id | PK_dependencies_desrciptions<br>Table primary key. |

## Uses

| Name |
|---|
| ⊞ **dbo.dependencies_descriptions  (Dependencies descriptions)** |
| ⊞ dbo.databases  (Documentations) |

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# 5. Utils

Utility tables used by Dataedo.

## 5.1. Tables

### 5.1.1. Table: dbo.ignored_objects (Ignored objects)

Objects ignored from import from DBMS.

### Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | ignored_object_id | int | | Row ID.<br>Identity / Auto increment column |
| | database_id | int | | Documentation from which object was ignored. |
| | schema | nvarchar(250) | *N* | Schema name. |
| | name | nvarchar(250) | | Database object name. |
| | object_type | nvarchar(100) | | Type of database object: TABLE/VIEW/PROCEDURE/FUNCTION |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

### Links to

| | Table | Join | Title / Name / Description |
|---|---|---|---|
| ➤ | dbo.databases (Documentations) | **dbo.ignored_objects.**database_id = dbo.databases.database_id | FK_ignored_objects_databases |

### Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | ignored_object_id | PK_ignored_objects<br>Table primary key. |

### Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_ignored_objects_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

### Uses

| Name |
|---|
| ▦ dbo.ignored_objects  (Ignored objects) |
|    ▦ dbo.databases  (Documentations) |

### 5.1.2. Table: dbo.licenses (Users and License keys)

User accounts and corresponding license keys.

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## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | license_id | int | | Row ID.<br>Identity / Auto increment column |
| | login | nvarchar(1024) | | Dataedo user login. This matches repository database login. |
| | key | varchar(256) | | License key. That includes Free license key. This entry is further encrypted. |
| | host | nvarchar(50) | *N* | Name of host that user logged in from. 2 last hosts and dates are remembered. |
| | host2 | nvarchar(50) | *N* | Name of second host that user logged in from. 2 last hosts and dates are remembered. |
| | host1_last_login | datetime | *N* | Date and time of last login from first host. |
| | host2_last_login | datetime | *N* | Date and time of last login from second host. |
| | creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| | created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| | last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| | modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | license_id | PK_licenses<br>Table primary key |
| 🔑 | login | UK_licenses_login<br>Login is uinque in repository user database. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_licenses_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

## 5.1.3.  Table: dbo.version (Repository version)

Holds information about repository version and updates. Each update to a new version creates a new row in table.
If Version.update is greater than used Dataedo application version, you won't be able to connect to it.

## Columns

| | Name | Data type | N | Description / Attributes |
|---|---|---|---|---|
| 🔑 | version_entry_id | int | | Row ID.<br>Identity / Auto increment column |
| | version | int | | Dataedo version (eg. 4). |
| | update | int | *N* | Repository update. This is still the same version, but a patch has been applied. Eg. 4.1.<br>Default: 0 |
| | stable | bit | *N* | 1 when installation/upgrade was performed sucessfuly, 0 when it was stopped for some reason. |

| Name | Data type | N | Description / Attributes |
|---|---|---|---|
| installation_date | datetime | *N* | Time of repository installation/upgrade.<br>Default: getdate() |
| installed_by | nvarchar(100) | *N* | Name of Database/Dataedo user that upgraded repository.<br>Default: NULL |
| creation_date | datetime | | Standard row creation timestamp.<br>Default: getdate() |
| created_by | nvarchar(100) | *N* | Database/Dataedo username that created row.<br>Default: NULL |
| last_modification_date | datetime | | Standard row last update timestamp.<br>Default: getdate() |
| modified_by | nvarchar(100) | *N* | Database/Dataedo username that last updated row.<br>Default: NULL |

## Unique keys

| | Columns | Name / Description |
|---|---|---|
| 🔑 | version_entry_id | PK_version<br>Table primary key. |
| 🔑 | version, update | UK_version<br>Version and update must be unique. |

## Triggers

| | Name | When | Description |
|---|---|---|---|
| ⚡ | trg_version_Modify | After Insert, Update | Standard insert/update trigger setting last_modification_date, modified by columns |

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# 6. Interface