Release 210

Database Documentation | System

Exact® software

release 210

Database Documentation | System

The information provided in this manual is intended for internal use by or within the organization of the customer only. Exact Group B.V. has carefully selected the content of this document. However, the content may not always represent reality or may become out-dated. Information may be changed or updated without notice. Exact Group B.V. may also make improvements and/or changes in the products, prices and/or the programs described in this manual at any time without notice.

Exact Group B.V. shall not be liable for the accuracy of any of the examples included and procedures described in this document, nor shall Exact be liable for any ensuing damage or loss of any nature whatsoever arising from or relating to its use.

No part of this manual may be reproduced, published and/or transmitted in any form or in any way, electronically, by print photocopy, microfilm or any other means, without the prior written consent of Exact Group B.V.

© Copyright Exact Group B.V. All rights reserved. All trademarks mentioned herein belong to their respective owners. Exact Software® is a registered trademark of Exact Group B.V.

Preface

To provide a better service for making reports or integrated business solutions, Exact has started with describing the database model of **Exact Globe** and **Exact Synergy Enterprise**. Since the **Exact Globe** product line and the **Exact Synergy Enterprise** product line are based on the same database model, this manual is applicable to both product lines.

The documentation of the database model is intended for a user on consultant level, who knows how **Exact Globe** or **Exact Synergy Enterprise** works and has some knowledge about SQL database structures, but lacks sufficient knowledge and information about the **Exact Globe**/**Exact Synergy Enterprise** database structure when making reports or integrated business solutions.

The following information will be provided for each table discussed:

1. **A brief description of the purpose of the table**
   Most tables have a single purpose. Some tables have multiple purposes.

2. **The fields of the table**
   What is stored in the field?
   What this field is used for?

3. **The functionalities of the table**
   Some tables have multiple purposes. Per table, the different functionalities (if available) are described.

4. **The technical specifications of the fields in the table**
   This information can be useful in making reports or business solutions.

5. **Standard SQL queries**
   With some standard SQL queries, it will be easy to retrieve the most commonly used data. The standard SQL queries supplied can also be used as the basis for extended or specific SQL queries used in reports and business solutions.

This manual will cover the main System database tables. The database tables described in this manual are based on version 210. It is Exact Software's intention to keep the documentation up to date with the latest developments.

Contents

Perface III

Chapter 1: ItemProcessTypes – Process types 3
1.1 General description 3
1.2 ItemProcessTypes field details 3

Chapter 2: Search templates 7
2.1 SearchTemplates – Search Templates 7
2.1.1 General description 7
2.1.2 SearchTemplates field details 7
2.2 SearchTemplateFields - SearchTemplateFields 8
2.2.1 General description 8
2.2.2 SearchTemplateFields field details 8

Chapter 3: KeySets - KeySets 13
3.1 General description 13
3.2 KeySets field details 13

Chapter 4: CardSettings - CardSettings 17
4.1 General description 17
4.2 CardSettings field details 17

Chapter 5: XML Server 23
5.1 XMLTopicDefinitions – XMLTopicDefinitions 23
5.1.1 General Description 23
5.1.2 XMLTopicDefinitions field details 23
5.2 XMLEvents – XML Events 25
5.2.1 General Description 25
5.2.2 XMLEvents field details 25

Chapter 6: Relation tables 31
6.1 GuidRelations – GuidRelations 32
6.1.1 General Description 32
6.1.2 GuidRelations field details 33
6.2 StringRelations – StringRelations 33
6.2.1 General Description 33
6.2.2 StringRelations field details 33

Chapter 7: Field properties 37
7.1 ItemProcessTypes 37
7.2 Search templates 37
7.2.1 SearchTemplates 37
7.2.2 SearchTemplateFields 38
7.3 KeySets 38
7.4 CardSettings 38
7.5 XML Server 39
7.5.1 XMLTopicDefinitions 39
7.5.2 XMLEvents 40
7.6 Relation tables 40
7.6.1 GuidRelations 40
7.6.2 StringRelations 41
7.6.3 IntegerRelations 41

Chapter 8: Sample SQL queries 45
8.1 ItemProcessTypes 45
8.2 Search templates 45
8.3 KeySets 46
8.4 CardSettings 46
8.5 XML Server 47
8.6 Relation tables 48

Chapter 1 | ItemProcessTypes – Process types

1. ItemProcessTypes – Process types

1.1 General description

The [ItemProcessTypes] table stores the document category setting for all the process types at system general settings.
Note! The [ItemProcessTypes] table is only used in Exact Synergy Enterprise.

1.2 ItemProcessTypes field details

Description – Description
The [ItemProcessTypes.Description] field stores the description of the process type.

Division – Division
The [ItemProcessTypes.Division] field is not used yet. It is added for future functionality.

DocCategory – Category
The [ItemProcessTypes.DocCategory] field stores the category of the document for the process type.

DocGroup – Group
The [ItemProcessTypes.DocGroup] field stores the category group of the document for the process type. The [ItemProcessTypes.DocGroup] field refers to the [BacoDiscussionGroups.ID] field.

DocSecurity – Security level
The [ItemProcessTypes.DocSecurity] field stores the security level of the document for the process type.

DocSubCategory – Subcategory
The [ItemProcessTypes.DocSubCategory] field stores the subcategory of the document for the process type.

TaskPrio – Priority
The [ItemProcessTypes.TaskPrio] field stores the priority of the process type. The [ItemProcessTypes.TaskPrio] field refers to the [RequestPriorities.ID] field.

Type – Type
The [ItemProcessTypes.Type] field stores the type of the specific process.

Chapter 2 | Search templates

2. Search templates

To support search templates on Exact Synergy Enterprise search platform, two new tables [SearchTemplates] and [SearchTemplateFields] are created. However, these tables are also used in templates creation, e.g. process flow templates.

2.1 SearchTemplates – Search Templates

2.1.1 General description

The [SearchTemplates] table stores the templates created in various functions, e.g. logistics items search templates and process flow templates.

2.1.2 SearchTemplates field details

Description – Description
The [SearchTemplates.Description] field stores the description of the template.

Division – Division
The [SearchTemplates.Division] field stores the division code of the current logon. The [SearchTemplates.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

ID – ID
The [SearchTemplates.ID] field stores the system generated database record identification number. This field is not functionally used.

Resource – Resource
The [SearchTemplates.Resource] field stores the ID of the resource when a private template has been created. When a public template has been created, this field stores either 0 or NULL.

SalesCycleID – Sales cycle
The [SearchTemplates.SalesCycleID] field stores the ID of the sales cycle definition. This column will only have value when the process flow template is created using the sales cycle definition. The [SearchTemplates.SalesCycleID] field refers to the [SalesCycleDefinitions.ID] field.
Note! The [SearchTemplates.SalesCycleID] field differentiates the normal process flow template and the process flow template created in sales cycle definition.

SearchCode – SearchCode
The [SearchTemplates.SearchCode] field stores the code that indicate the entry point where the template has been created.

Syscreated – Created date and time
The [SearchTemplates.Syscreated] field stores the date and time that the template has been created.

Syscreator – Creator
The [SearchTemplates.Syscreator] field stores the ID of the resource who created the template. The [SearchTemplates.Syscreator] field refers to the [Humres.Res_id] field.

2.2 SearchTemplateFields - SearchTemplateFields

2.2.1 General description

The [SearchTemplateFields] table stores the information of the fields of the templates.

2.2.2 SearchTemplateFields field details

Division – Division
The [SearchTemplateFields.Division] field stores the division code of the current logon. The [SearchTemplateFields.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

Field – Field
The [SearchTemplateFields.Field] field stores the name of the field of the template.

FieldType – FieldType
The [SearchTemplateFields.FieldType] field stores the data type of the field of the template. The [SearchTemplateFields. FieldType] field can store one of the following values:

Value	Description
0	Visibility (Value is 1 = Visible; Value is 0 = Hide)
1	Control Name
2	Free field Column
3	Total of Free Field column

ID – ID
The [SearchTemplateFields.ID] field stores the system generated database record identification number. This field is not functionally used.

Template – Template
The [SearchTemplateFields.Template] field stores the ID of the template. The [SearchTemplateFields.Template] field refers to the [SearchTemplates.ID] field.

Value – Value
The [SearchTemplateFields.Value] field stores the default value or last value of the field of the template.

Chapter 3 | KeySets - KeySets

3. KeySets - KeySets

3.1 General description

The [KeySets] table stores the encryption keys in the database for data encryption in Exact Synergy Enterprise. It is used to encrypt the database password of the Crystal user for running reports.

3.2 KeySets field details

EncryptionKey – Encryption key
The [KeySets.EncryptionKey] field stores the key 1 used for encryption.

ID – ID
The [KeySets.ID] field stores the system generated database record identification number. This field is not functionally used.

InitializationVector – Initialization vector
The [KeySets.InitializationVector] field stores the key 2 used for encryption.

Chapter 4 | CardSettings - CardSettings

4. CardSettings - CardSettings

4.1 General description

The [CardSettings] table stores the user personalization changes on account card, resource card and item card. This table is applicable for Exact Synergy Enterprise.

4.2 CardSettings field details

ApplicationID – Application
The [CardSettings.ApplicationID] field stores the ID of the application using the setting.

Division – Division
The [CardSettings.Division] field stores the company code of the current logon. The [CardSettings.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

ID – ID
The [CardSettings.ID] field stores the system generated database record identification number.

Module – Module
The [CardSettings.Module] field stores the module name, e.g. CRM, HRM, LOG.

Parameter_0 – Parameter 1
The [CardSettings.Parameter_0] field stores the first parameter defined in advance properties.

Parameter_1 – Parameter 2
The [CardSettings.Parameter_2] field stores the second parameter defined in advance properties.

Parameter_2 – Parameter 3
The [CardSettings.Parameter_3] field stores the third parameter defined in advance properties.

ResourceID – Resource
The [CardSettings.ResourceID] field stores the user ID. The [CardSettings.ResourceID] field refers to the [Humres.Res_ID] field.

SettingType – Setting type
The [CardSettings.SettingType] field stores the type of setting. The [CardSettings.SettingType] field can store one of the following values:

Value	Description
0	Layout setting
1	Advance properties setting

Syscreated – Created date and time
The [CardSettings.Syscreated] field stores the date and time that the card setting has been created.

Syscreator – Creator
The [CardSettings.Syscreator] field stores the ID of the resource who created the card setting. The [CardSettings.Syscreator] field refers to the [Humres.Res_ID] field.

SysGuid – SysGuid
The [CardSettings.SysGuid] field stores the Guid ID field generated by the system upon creation of the card setting.

Sysmodified – Modified date and time
The [CardSettings.Sysmodified] field stores the date and time that the card setting was last modified. Initially, this field contains the creation date, which is stored in the [CardSettings.Syscreated] field.

Sysmodifier – Modifier
The [CardSettings.Sysmodifier] field stores the ID of the resource who last modified the card setting. Initially, this field contains the creator as is stored in the [CardSettings.Syscreator] field. The [CardSettings.Sysmodifier] field refers to the [Humres.Res_ID] field.

Timestamp – Timestamp
The [CardSettings.Timestamp] field stores a system generated timestamp. The timestamp field is regenerated upon every change in the card setting. This field is mainly used for replication purposes.

Type – Type
The [CardSettings.Type] field stores the mode of the card. The [CardSettings.Type] field can store one of the following values:

Value	Description
0	New
1	Read
2	Edit

XMLValue – XML value

The [CardSettings.XMLValue] field stores the compressed setting of the XML value.

Chapter 5 | XML Server

5. XML Server

5.1 XMLTopicDefinitions – XMLTopicDefinitions

5.1.1 General Description

The [XMLTopicDefinitions] table stores the definitions for downloading and uploading of XML topics, nodes and list. A list definition is a collection of nodes. For instance, Resources is a list of Resource nodes.
Note! The [XMLTopicDefinitions] table is only used in Exact Synergy Enterprise.

5.1.2 XMLTopicDefinitions field details

AllowCreate – AllowCreate
The [XMLTopicDefinitions.AllowCreate] field indicates if creating new item is allowed. The [XMLTopicDefinitions.AllowCreate] field can store one of the following values:

Value	Description
0	Cannot add new, if item does not exist
1	Can add new, if item does not exist

AllowUpdate – AllowUpdate
The [XMLTopicDefinitions.AllowUpdate] field indicates if update is allowed on existing item. The [XMLTopicDefinitions. AllowUpdate] field can store one of the following values:

Value	Description
0	Cannot update, if item exist
1	Can update, if item exist

Assembly – Assembly
The [XMLTopicDefinitions.Assembly] field stores the file name of the corresponding assembly (DLL).

Class – Class
The [XMLTopicDefinitions.Class] field stores the corresponding class within the define assembly, which is stored in the [XMLTopicDefinitions.Assembly] field.

Code – Code
The [XMLTopicDefinitions.Code] field stores the code of the XML item. This code is used as reference name in application, e.g. Journals and Orders.
Description – Description
The [XMLTopicDefinitions.Description] field stores the description of the XML item.

DescriptionTermID – Description term ID
The [XMLTopicDefinitions.DescriptionTermID] field stores the term ID of the description, which is stored in the [XMLTopicDefinitions. Description] field.

FunctionPoint – Function rights
The [XMLTopicDefinitions.FunctionPoint] field stores the function rights required to use the corresponding item. Users having this function rights will be able to perform upload/download on the corresponding XML item.

ID – ID
The [XMLTopicDefinitions.ID] field stores the system generated database record identification number. This field is not functionally used.

List – List
The [XMLTopicDefinitions.List] field is reserved to store the list matching the node.

PageSize – Page size
The [XMLTopicDefinitions.PageSize] field stores the size of data being downloaded. For example, if page size equals to 250, the data being downloaded will be 250 records.

Scenario – Scenario
The [XMLTopicDefinitions.Scenario] field stores the replication mode of the XML item, between Globe and Exact Synergy Enterprise. This code is used by background job. The [XMLTopicDefinitions.Scenario] field can store one of the following values:

Value	Description
-1	Disabled
0	Both
1	From Synergy (to Globe)
2	To Synergy (from Globe)

Type – Type
The [XMLTopicDefinitions.Type] field stores the type of the XML item. The [XMLTopicDefinitions.Type] field can store one of the following values:

Value	Description
0	Topic
1	List
2	Node

5.2 XMLEvents – XML Events

5.2.1 General Description

The [XMLEvents] table stores the results of the XML events, which are the scheduled XML import or export that has been performed in batches.

5.2.2 XMLEvents field details

BatchID – Batch
The [XMLEvents.BatchID] field stores the batch ID of the XML import/export.

CompanyCode – Company
The [XMLEvents.CompanyCode] field stores the division code linked to the XML import/export. The [XMLEvents.CompanyCode] field refers to the [Bedryf.Bedrnr] field.

DataKey – Key
The [XMLEvents.DataKey] field stores the key of the record.

DataKeyAlt – Alternative key
The [XMLEvents.DataKeyAlt] field stores the alternative key of the record.
Note! The [XMLEvents.DataKeyAlt] field is only applicable for Exact Synergy Enterprise.

Division – Division
The [XMLEvents.Division] field stores the division code of the current logon. The [XMLEvents.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

EventDate – Date
The [XMLEvents.EventDate] field stores the date for which the XML import/export has been performed.

EventDescription – Description
The [XMLEvents.EventDescription] field stores the message raised by the XML import/export.

EventType – Type
The [XMLEvents.EventType] field stores the type of the XML import/export. The [XMLEvents.EventType] field can store one of the following values:

Value	Description
0	Error
1	Warning
2	Message
4	Confirmation

HumresID – Resource
The [XMLEvents.HumresID] field stores the ID of the resource for which has performed the XML import/export. The [XMLEvents.HumresID] field refers to the [Humres.Res_ID] field.

ID – ID
The [XMLEvents.ID] field stores the system generated database record identification number. This field is not functionally used.

ImportExport – Source
The [XMLEvents.ImportExport] field stores the source of the XML event. The [XMLEvents.ImportExport] field can store one of the following values:

Value	Description
E	Export
I	Import

Node – Node
The [XMLEvents.Node] field stores the XML node involved in the XML import/export.

Topic – Topic
The [XMLEvents.Topic] field stores the XML topic involved in the XML import/export.

XMLNode – XML node

The [XMLEvents.XMLNode] field stores the whole node with containing data where the XML event occurred in.

Note! The [XMLEvents.XMLNode] field is only applicable for Exact Synergy Enterprise.

Chapter 6 | Relation tables

6. Relation tables

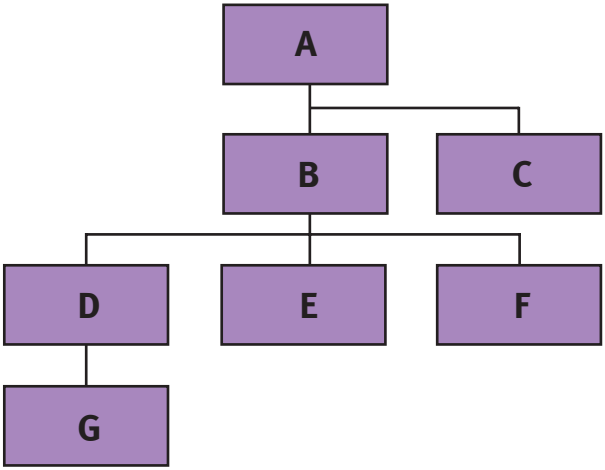
For a quick search on relations between similar entities, we have introduced relation tables in Exact Synergy Enterprise. Three new tables are introduced to store (grand)parent – (grand)child relationships. These tables will make queries to retrieve data easier. Examples of such queries are:

- Search a document category and all its child-categories
- Display a resource with all his subsidiaries in a tree view
- Get the top 100 accounts including subsidiaries with most revenue

All the tables have four fields, which are:

- Type: Type of the relation (1 = Accounts, 2 = Resources, 3 = Projects, 4 = DocumentCategories, 5 = ReportCategories)
- ID/Code: Child ID
- Parent: Parent ID of Child ID
- Level: Level of the relationship (0 = record itself, 1 = parent, 2 = grandparent, 3 = grand-grandparent, etc)

The table contains each (grand)child - (grand)parent pair. Note that each record of the base table is also included as a "self-relation" with Parent = ID.
Example:



The tree diagram above will lead to the following relationships in [GuidRelations] table:

Parent	ID	Level
A	A	0
A	B	1
A	C	1
A	D	2
A	E	2
A	F	2
A	G	3
B	B	0
B	D	1
B	E	1
B	F	1
B	G	2
C	C	0
D	D	0
D	G	1
E	E	0
F	F	0
G	G	0

6.1 GuidRelations – GuidRelations

6.1.1 General Description

The [GuidRelations] table stores these relations for the entities, which have a Guid as primary key:

- Document categories – Not (yet) implemented
- Accounts
- Crystal report categories

6.1.2 GuidRelations field details

ID – ID
The [GuidRelations.ID] field stores the child ID of the relation.

Level – Level
The [GuidRelations.Level] field stores the level of the relationship.

Parent – Parent
The [GuidRelations.Parent] field stores the parent ID of the relation.

Type – Type
The [GuidRelations.Type] field stores the type of the relation.

6.2 StringRelations – StringRelations

6.2.1 General Description

The [StringRelations] table stores relations for entities, which have a char or varchar as primary key:

- Projects

6.2.2 StringRelations field details

Code – Code
The [StringRelations.Code] field stores the child ID of the relation.

Level – Level
The [StringRelations.Level] field stores the level of the relationship.

Parent – Parent
The [StringRelations.Parent] field stores the parent ID of the relation.

Type – Type
The [StringRelations.Type] field stores the type of the relationship.

Chapter 7 | Field properties

7. Field properties

This section will give a technical overview of the database fields and the way they are used. If the field described has a reference to another table or field, the referenced field is also mentioned.

7.1 ItemProcessTypes

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Description	Description		varchar	60	Yes	4243	
Division	Division		smallint		Yes	64	
DocCategory	Category		varchar	30	Yes	1205	
DocGroup	Group	BacoDiscussionGroups.ID	int		Yes	2560	
DocSecurity	Security level		int		No	209	(10)
DocSubCategory	Subcategory		varchar	30	Yes	83	
TaskPrio	Priority	RequestPriorities.ID	int		No	3217	(3)
Type	Type		int		No	3801	

7.2 Search templates

7.2.1 SearchTemplates

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Description	Description		varchar	60	No		
Division	Division		smallint		Yes		
ID	ID		uniqueidentifier		No		
Resource	Resource		int		Yes		
SalesCycleID	SalesCycleID	OpportunitySalesCycles.ID	int		Yes		
SearchCode	SearchCode		char	8	No		
syscreated	Created date and time		datetime		Yes		getdate()
syscreator	Creator	humres.res_id	int		Yes		

7.2.2 SearchTemplateFields

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Division	Division		smallint		Yes		
Field	Field		char	40	No		
FieldType	FieldType		int		No		
ID	ID		uniqueidentifier		No		newid()
Template	Template		uniqueidentifier		No		
Value	Value		varchar	255	Yes		

7.3 KeySets

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
EncryptionKey	Encryption key		uniqueidentifier		No		
ID	ID		int		No		
InitializationVector	Initialization vector		uniqueidentifier		No		

7.4 CardSettings

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
ApplicationID	Application		smallint		No		(0)
Division	Division		smallint		Yes		
ID	ID		int		No		
Module	Module		char	3	No		
Parameter_0	Parameter 1		varchar	30	Yes		
Parameter_1	Parameter 2		varchar	30	Yes		
Parameter_2	Parameter 3		varchar	30	Yes		
ResourceID	Resource	humres.res_id	int		No		(0)
SettingType	Setting type		tinyint		No		(0)
syscreated	Created date and time		datetime		No		getdate()
syscreator	Creator	humres.res_id	int		No		(0)
sysguid	SysGuid		uniqueidentifier		No		newid()

CardSettings

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
sysmodified	Modified date and time		datetime		No		getdate()
sysmodifier	Modifier	humres.res_id	int		No		(0)
timestamp	Timestamp		timestamp		Yes		
Type	Type		tinyint		No		(0)
XMLValue	XML value		text		Yes		

7.5 XML Server

7.5.1 XMLTopicDefinitions

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
AllowCreate	AllowCreate		bit		No		(1)
AllowUpdate	AllowUpdate		bit		No		(1)
Assembly	Assembly		varchar	60	Yes		
Class	Class		varchar	60	Yes		
Code	Code		varchar	30	No		
Description	Description		varchar	60	No		
DescriptionTermID	DescriptionTermID		int		Yes		
FunctionPoint	FunctionPoint		int		Yes		
ID	ID		uniqueidentifier		No		
List	List		varchar	30	Yes		
PageSize	PageSize		int		No		(100)
Scenario	Scenario		int		No		(0)
Type	Type		int		No		(0)

7.5.2 XMLEvents

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
BatchID	Batch		int		No	4007	
CompanyCode	Company	bedryf.bedrnr	char	3	No	9608	
DataKey	Key		varchar	40	Yes	5330	
DataKeyAlt	Alternative key		varchar	40	Yes		
Division	Division		smallint		Yes		
EventDate	Date		datetime		No	8516	getdate()
EventDescription	Description		varchar	1000	Yes	4243	
EventType	Type		int		No	3801	
HumresID	Resource	humres.res_id	int		No	12	
ID	ID		uniqueidentifier		No	31212	newid()
ImportExport	Source		char	1	Yes		
Node	Node		varchar	30	Yes	0	
Topic	Topic		varchar	30	Yes	7062	
XMLNode	XML node		text		Yes		

7.6 Relation tables

7.6.1 GuidRelations

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
ID	ID		uniqueidentifier		No		
Level	Level		tinyint		No		
Parent	Parent		uniqueidentifier		No		
Type	Type		smallint		No		

7.6.2 StringRelations

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Code	Code		varchar	30	No		
Level	Level		tinyint		No		
Parent	Parent		varchar	30	No		
Type	Type		smallint		No		

7.6.3 IntegerRelations

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
ID	ID		int		No		
Level	Level		tinyint		No		
Parent	Parent		int		No		
Type	Type		smallint		No		

Chapter 8 | Sample SQL queries

8. Sample SQL queries

This section will list some SQL queries for retrieving data from the System tables. These queries can also be used as the basis for more complex reports or business solutions. Some basic knowledge of the Transact-SQL syntax is required to work with these examples.

8.1 ItemProcessTypes

1. Query to retrieve all the process types.

   SELECT ItemProcessTypes.Type, ItemProcessTypes.Description, BacoDiscussionGroups.Description, ItemProcessTypes.DocSecurity, ItemProcessTypes.TaskPrio, RequestPriorities.Description
   FROM ItemProcessTypes
   LEFT OUTER JOIN BacoDiscussionGroups ON ItemProcessTypes.DocGroup = BacoDiscussionGroups.ID
   INNER JOIN RequestPriorities ON ItemProcessTypes.TaskPrio = RequestPriorities.ID
   ORDER BY ItemProcessTypes.Type

8.2 Search templates

1. Query to retrieve templates based on creator and search code order by description of the templates.

   SELECT SearchTemplates.Description
   FROM SearchTemplates
   WHERE SearchTemplates.syscreator=1
   AND SearchTemplates.SearchCode='LOGSrc'
   ORDER BY SearchTemplates.Description

2. Query to retrieve template base on ID ‘C8CB54F0-71FC-4D61-BD04-6C41BA6B3055’.

   SELECT SearchTemplates.Description
   FROM SearchTemplates
   WHERE SearchTemplates.ID= 'C8CB54F0-71FC-4D61-BD04-6C41BA6B3055'

3. Query to retrieve the information of the search fields for template ''C8CB54F0-71FC-4D61-BD04-6C41BA6B3055'.

```
SELECT SearchTemplateFields.FieldType, SearchTemplateFields.Field, SearchTemplateFields.Value
FROM SearchTemplateFields
WHERE SearchTemplateFields.Template = 'C8CB54F0-71FC-4D61-BD04-6C41BA6B3055'
```

8.3 KeySets

1. Query to retrieve the key and initialization vector from the database.

```
SELECT KeySets.EncryptionKey, KeySets.InitializationVector
FROM KeySets
WHERE KeySets.ID = 1
```

8.4 CardSettings

1. Query to retrieve the setting value for employee on active customer account with advance properties setting in combination of account type, account status and security level.

```
SELECT CardSettings.Module, CardSettings.Type, CardSettings.Parameter_0, CardSettings.Parameter_1, CardSettings.
Parameter_2, CardSettings.XMLValue, CardSettings.ResourceID, CardSettings.syscreator, CardSettings.syscreated,
CardSettings.sysmodifier, CardSettings.sysmodified
FROM CardSettings
WHERE CardSettings.Module = ‘CRM’
AND CardSettings.ApplicationID=0
AND CardSettings.SettingType=1
AND CardSettings.Type=1
AND CardSettings.ResourceID=0
AND CardSettings.Parameter_0 = ‘C’
AND CardSettings.Parameter_1= ‘A’
AND CardSettings.Parameter_2=10
```

2. Query to retrieve the corporate layout setting for applicant card in new mode.

```
SELECT CardSettings.Module, CardSettings.Type, CardSettings.Parameter_0, CardSettings.Parameter_1, CardSettings.
Parameter_2, CardSettings.XMLValue, CardSettings.ResourceID, CardSettings.syscreator, CardSettings.syscreated,
CardSettings.sysmodifier, CardSettings.sysmodified
FROM CardSettings
WHERE CardSettings.Module = 'HRM'
AND CardSettings.ApplicationID=0
AND CardSettings.SettingType=0
AND CardSettings.Type= 0
AND CardSettings.ResourceID = 0
AND CardSettings.Parameter_0= 'NA'
AND CardSettings.Parameter_1 ISNULL
AND CardSettings.Parameter_2= 0
```

8.5 XML Server

1. Query to retrieve the XML topics definitions.

```
SELECT XMLTopicDefinitions.Code, XMLTopicDefinitions.DescriptionTermID, XMLTopicDefinitions.FunctionPoint,
XMLTopicDefinitions.Scenario, BacoFunctions.Description
FROM XMLTopicDefinitions
LEFT OUTER JOIN BacoFunctions ON XMLTopicDefinitions.FunctionPoint = BacoFunctions.ID
WHERE XMLTopicDefinitions.Type=1
```

2. Query to select all results of the XML events based on division code '943' and batch ID between 3 and 52.

```
SELECT XMLEvents.Topic, XMLEvents.BatchID, humres.res_id, humres.fullname, COUNT(*) AS Messages, COUNT(CASE
WHEN XMLEvents.EventType = 0 THEN 0 END) AS Errors, MAX(XMLEvents.EventDate) AS Date, XMLTopicsDefinition.
TermID
FROM XMLEvents
INNER JOIN humres ON XMLEvents.HumresID = humres.res_id
LEFT JOIN XMLTopicsDefinition ON XMLEvents.Topic = XMLTopicsDefinition.Topic
WHERE XMLEvents.CompanyCode = '943'
AND XMLEvents.BatchID BETWEEN 3 AND 52
GROUP BY XMLEvents.Topic, XMLEvents.BatchID, humres.res_id, humres.fullname, XMLTopicsDefinition.TermID
ORDER BY XMLEvents.BatchID DESC
```

3. Query to retrieve details of a particular batch ID ‘52’.

```
SELECT XMLEvents.ID, (CASE XMLEvents.EventType WHEN 0 THEN 'Error' WHEN 1 THEN 'Warning' WHEN 2 THEN
'Message' END) AS Type, XMLEvents.EventDate, XMLEvents.Node, XMLEvents.DataKey, XMLEvents.EventDescription,
XMLTopicsDefinition.TermID, (CASE XMLEvents.EventType WHEN 0 THEN 4467 WHEN 1 THEN 3749 WHEN 2 THEN 1778
END) AS MessageTerm
FROM XMLEvents
LEFT OUTER JOIN XMLTopicsDefinition ON XMLTopicsDefinition.Topic = XMLEvents.Node
WHERE XMLEvents.BatchID = ‘52’
ORDER BY XMLEvents.EventDate
```

8.6 Relation tables

1. Query to retrieve all relations for the entities, which have a Guid as primary key.

```
SELECT *
FROM GuidRelations
```

2. Query to retrieve all relations for entities, which have a char or varchar as primary key.

```
SELECT *
FROM StringRelations
```

3. Query to retrieve all relations for entities, which have an integer as primary key.

```
SELECT *
FROM IntegerRelations
```

4. Query to retrieve all subordinates of a resource with ID '80213'.

```
SELECT humres.res_id, humres.FullName, humres.emp_type
FROM humres
INNER JOIN IntegerRelations ON IntegerRelations.Type = 2
AND humres.res_id = IntegerRelations.ID
WHERE IntegerRelations.Parent = '80213'
```

October 2007

HE0101EN03

www.exactsoftware.com