Release 391

Database Documentation | System

Exact® software

release 391

Database Documentation | System

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 e-Synergy. Since the Exact Globe product line and the e-Synergy 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 e-Synergy works and has some knowledge about SQL database structures, but lacks sufficient knowledge and information about the ExactGlobe or e-Synergy 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.

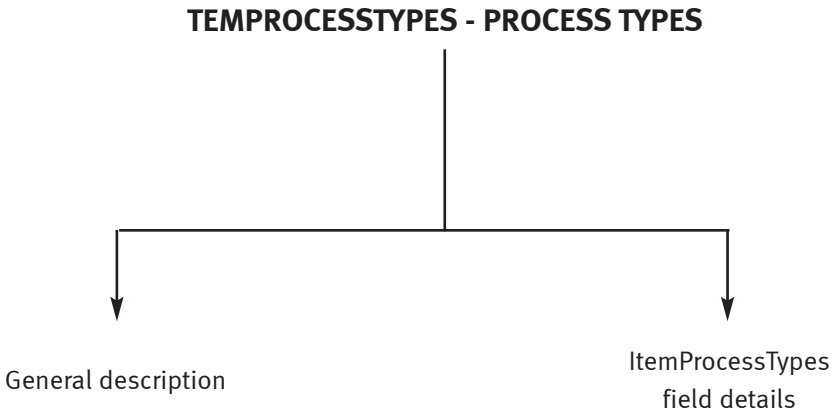
4. **The technical specifications of the fields in the table**
   This information can be useful in making reports or business solutions.

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.

The database tables described in this manual are based on version 380. It is Exact Software's intention to keep the documentation up to date with the latest developments.

Contents

Chapter 1 | ItemProcessTypes - Process types


TEMPROCESSTYPES - PROCESS TYPES
General description
ItemProcessTypes
field details

1. ItemProcessTypes - Process types

1.1 General Descriptions

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 e-Synergy.

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

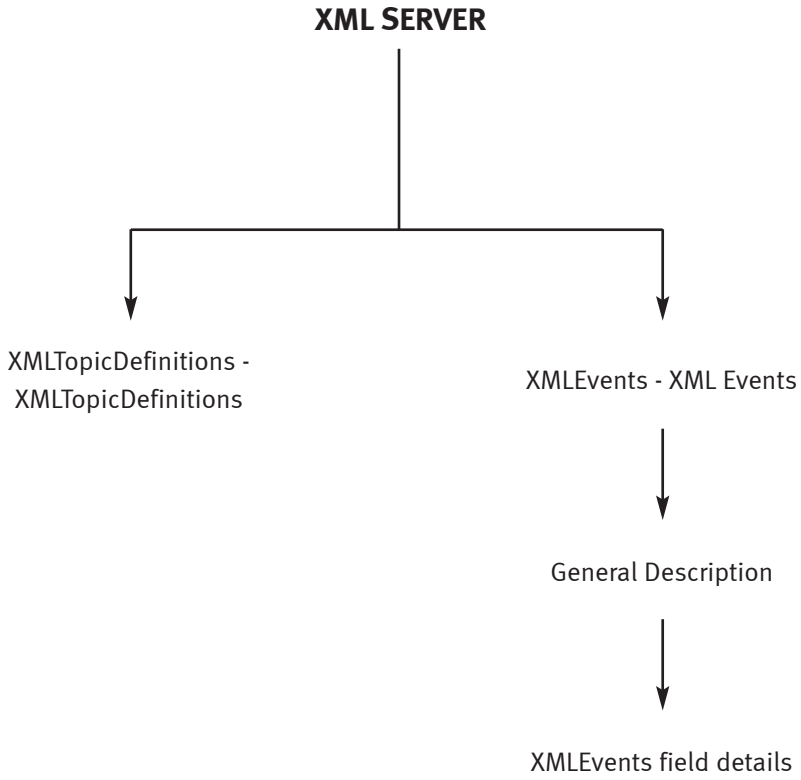
The [SearchTemplates] and [SearchTemplateFields] tables are not used.

Chapter 3 | Section 3 KeySets - KeySets

3. KeySets - KeySets

The [KeySets] table is not used.

Chapter 4 | XML Server


XML SERVER
XMLTopicDefinitions - XMLTopicDefinitions
XMLEvents - XML Events
General Description
XMLEvents field details

4. XML Server

4.1 XMLTopicDefinitions - XMLTopicDefinitions

The [XMLTopicDefinitions] table is not used.

4.2 XMLEvents - XML Events

4.2.1 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.

4.2.2 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! This field is only applicable for e-Synergy.NET.

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 possible values are:

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 possible values are:

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.

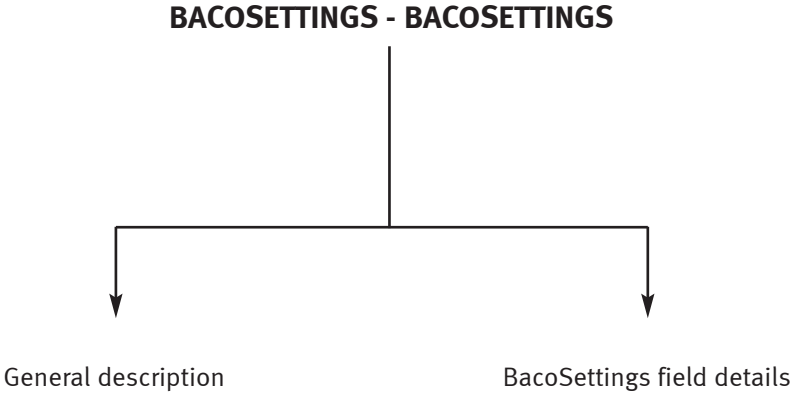
XMLNode - XML node
The [XMLEvents.XMLNode] field stores the whole node with containing data where the XML event occurred in.
Note! This field is only applicable for e-Synergy.NET.

Chapter 5 | Relation tables

5. Relation tables

The [GUIDRelations], [StringRelations] and [IntegerRelations] tables are not used.

Chapter 6 | BacoSettings - BacoSettings


BACOSETTINGS - BACOSETTINGS
General description
BacoSettings field details

6. BacoSettings - BacoSettings

6.1 General description

The [BacoSettings] table stores all the system settings defined by users, company settings, as well as division-specific settings.BacoSettings field details.

6.2 BacoSettings field details

DateValue - Date
The [BacoSettings.DateValue] field stores the date defined for the system settings when [BacoSettings.ValueType] equals to 3.

Division - Division
The [BacoSettings.Division] field stores the division code. This division code is the division which a contract parameter is created for in the system. The [BacoSettings.Division] refers to the [ContractParameters.Division] field. For other settings, [BacoSettings.Division] is not used currently.

DoubleValue - Value
The [BacoSettings.DoubleValue] field stores the numeric values when [BacoSettings.ValueType] equals to 2.

LongValue - Value
The [BacoSettings.LongValue] field stores the integer values when [BacoSettings.ValueType] equals to 1.

SettingGroup - Setting Group
The [BacoSettings.SettingGroup] field stores the setting groups based on the various setting types. For example, for a user setting type, several setting groups can be used to group the settings. In this scenario, setting groups based on the user names are used. This field is not functionally used at this moment.

SettingName - Name
The [BacoSettings.SettingName] field stores the setting name.

SettingType - Type
The [BacoSettings.SettingType] field stores the setting types. The [BacoSettings.SettingType] field can store one of the following values:

Value	Description
0	General
1	Division
2	User
8	Customer

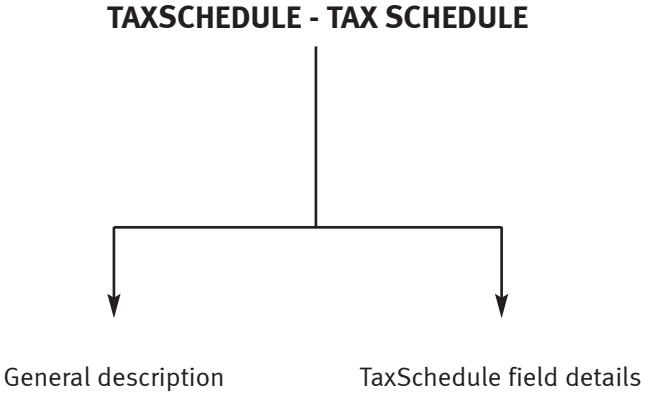
StringValue - Value
The [BacoSettings.StringValue] field stores the string values when [BacoSettings.ValueType] equals to 0.

ValueType - Type
The [BacoSettings.ValueType] field stores a number that indicates the types of value. The [BacoSettings.ValueType] field can store one of the following values:

Value	Description
0	String
1	Integer
2	Numeric
3	Date
4	XML

XMLValue - XML Value
The [BacoSettings.XMLValue] field generally stores the XML values for webparts settings.

Chapter 7 | BacoSettings - BacoSettings


TAXSCHEDULE - TAX SCHEDULE
General description
TaxSchedule field details

7. TaxSchedule - Tax schedule

7.1 General description

The [TaxSchedule] table stores information of taxes that will be used for tax calculations.

7.2 TaxSchedule field details

Account - Account
The [TaxSchedule.Account] field stores the main identifying code for the account. The [TaxSchedule.Account] field is the reference field for almost all the tables that need a reference to the [TaxSchedule] table.

AccountClassification - Account classification
The [TaxSchedule.AccountClassification] field stores the classification code of the account. This can be an account type specific or general classification. This field is similar to the [CICMPY.ClassificationID].

City - City
The [TaxSchedule.City] field stores the city code of the tax schedule.

CompanyCode - Company code
The [TaxSchedule.CompanyCode] field stores the code of the company.

Country - Country
The [TaxSchedule.Country] field stores the country code of the tax schedule.

County - County
The [TaxSchedule.County] field stores the county code of the tax schedule.

Division - Division
The [TaxSchedule.Division] field stores the division code of the company.

ID - ID
The [TaxSchedule.ID] field stores the ID of the tax schedule.

ItemClass - Item class
The [TaxSchedule.ItemClass] field stores the additional information for the item the tax schedule. This makes it possible to define specific properties for the item.

ItemCode - Item code
The [TaxSchedule.ItemCode] field stores the code of the item that is taxable.

Postcode - Postcode
The [TaxSchedule.Postcode] field stores the postcode of the tax schedule.

State - State
The [TaxSchedule.State] field stores the state code of the tax schedule.

SysCreated - System created date and time
The [TaxSchedule.SysCreated] field stores the system creation date and time of the tax schedule.

SysCreator - System creator
The [TaxSchedule.SysCreator] field stores the ID of the user who created the tax schedule.

Sysguid - Sysguid
The [TaxSchedule.Sysguid] field stores the Guid ID field generated by the system upon creation of the accounts.

SysModified - System modified date and time
The [TaxSchedule.SysModified] field stores the system modification date and time of the tax schedule.

SysModifier - System modifier
The [TaxSchedule.SysModifier] field stores the ID of the user to modified the tax schedule.

TaxCode1 - Tax code 1
The [TaxSchedule.TaxCode1] field stores the tax code 1 of the tax schedule.

TaxCode2 - Tax code 2
The [TaxSchedule.TaxCode2] field stores the tax code 2 of the tax schedule.

TaxCode3 - Tax code 3
The [TaxSchedule.TaxCode3] field stores the tax code 3 of the tax schedule.

TaxCode4 - Tax code 4
The [TaxSchedule.TaxCode4] field stores the tax code 4 of the tax schedule.

TaxCode5 - Tax code 5
The [TaxSchedule.TaxCode5] field stores the tax code 5 of the tax schedule.

TaxItemClassification - Tax item classification
The [TaxSchedule.TaxItemClassification] field stores the classification code of the items that will be taxed.

TaxPerUnit1 - Tax per unit 1
The [TaxSchedule.TaxPerUnit1] field stores the tax percentage of [TaxSchedule.TaxCode1] that will be taxable for each unit of the item.

TaxPerUnit2 - Tax per unit 2
The [TaxSchedule.TaxPerUnit2] field stores the tax percentage of [TaxSchedule.TaxCode2] that will be taxable for each unit of the item.

TaxPerUnit3 - Tax per unit 3
The [TaxSchedule.TaxPerUnit3] field stores the tax percentage of [TaxSchedule.TaxCode3] that will be taxable for each unit of the item.

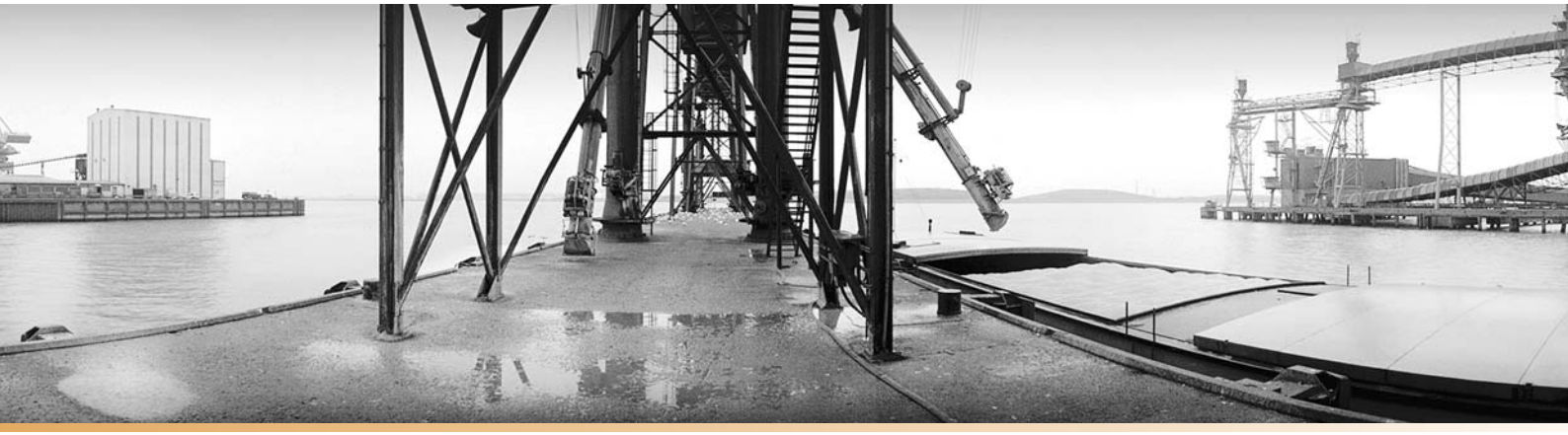
TaxPerUnit4 - Tax per unit 4
The [TaxSchedule.TaxPerUnit4] field stores the tax percentage of [TaxSchedule.TaxCode4] that will be taxable for each unit of the item.

TaxPerUnit5 - Tax per unit 5
The [TaxSchedule.TaxPerUnit5] field stores the tax percentage of [TaxSchedule.TaxCode5] that will be taxable for each unit of the item.

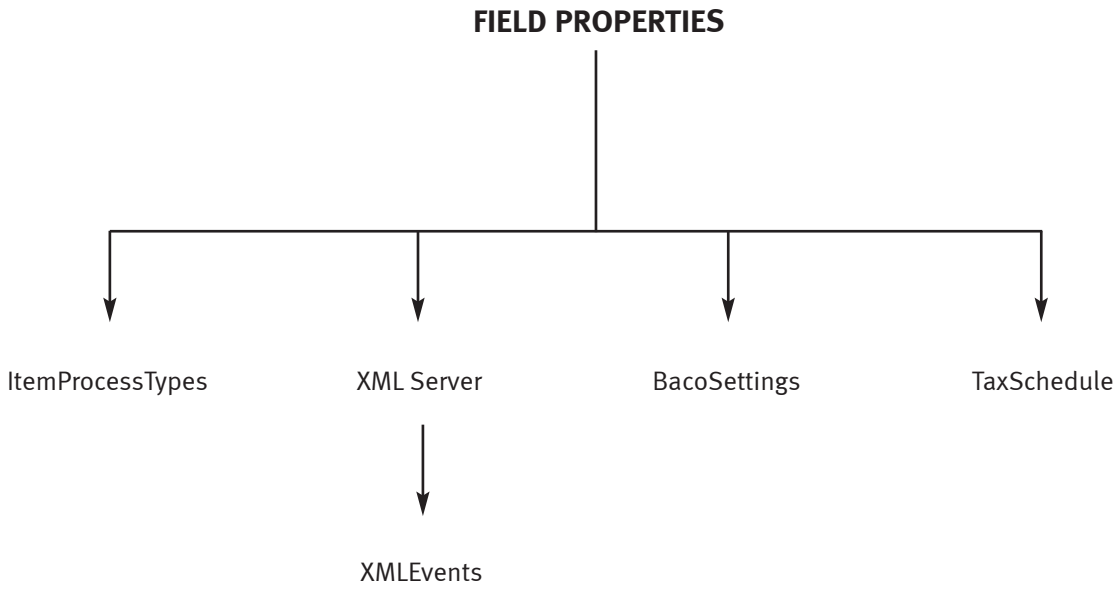
Timestamp - Timestamp
The [TaxSchedule.Timestamp] field contains a system generated timestamp. The timestamp field is regenerated upon every change in the accounts. This field is mainly used for replication purposes.

Type - Type
The [TaxSchedule.Type] field stores the transaction type of the tax schedule.

Value	Description
P	Purchase
S	Sales
B	Both



Chapter 8 | Field properties


FIELD PROPERTIES
ItemProcessTypes
XML Server
BacoSettings
TaxSchedule
XMLEvents

8. 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.

8.1 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	

8.2 XML Server

8.2.1 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	

XMLEvents

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
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		

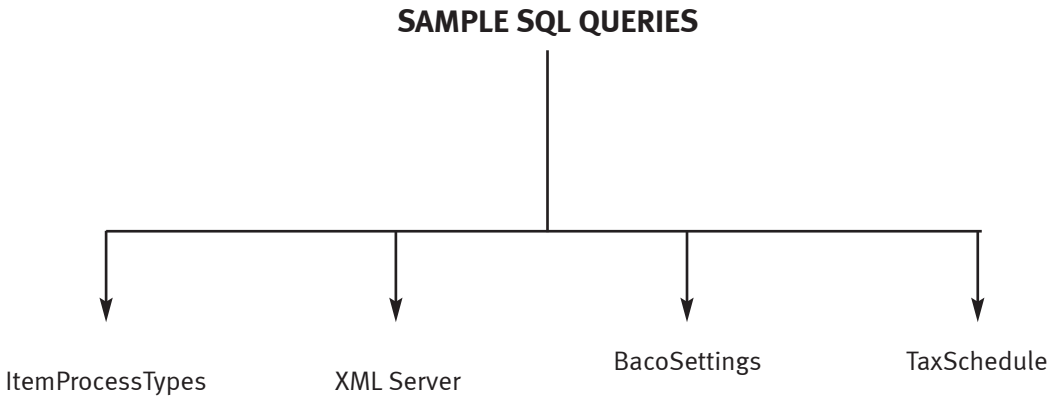
8.3 BacoSettings

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
DateValue	Date		datetime		Yes		
Division	Division	ContractParameters.Division	smallint		Yes		
DoubleValue	Value		float		Yes		
LongValue	Value		int		Yes		
SettingGroup	Setting Group		char	40	No		
SettingName	Name		varchar	60	No		
SettingType	Type		int		No		(0)
StringValue	Value		char	255	Yes		
ValueType	Type		int		No		(0)
XMLValue	XML Value		text		Yes		

8.4 TaxSchedule

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Account	Account		Uniqueidentifier	16	Yes		
AccountClassification	Account classification		Char	3	Yes	35923	
City	City		Varchar	100	Yes		
CompanyCode	Company code		Char	3	Yes		
Country	Country		Char	3	Yes		
County	County		Varchar	100	Yes		
Division	Division		Smallint	2	Yes		
ID	ID		Int	4	No		
ItemClass	Item class		Varchar	30	Yes	222	
ItemCode	Item code		Varchar	30	Yes		
Postcode	Postcode		Char	20	Yes		
State	State		Char	3	Yes		
Syscreated	System created date & time		Datetime	8	No		
Syscreator	System creator		Int	4	No		
Sysguid	Sysguid		Uniqueidentifier	16	No		
Sysmodified	System modified date & time		Datetime	8	No		
Sysmodifier	System modifier		Int	4	No		
TaxCode1	Tax code 1		Char	3	Yes		
TaxCode2	Tax code 2		Char	3	Yes		
TaxCode3	Tax code 3		Char	3	Yes		
TaxCode4	Tax code 4		Char	3	Yes		
TaxCode5	Tax code 5		Char	3	Yes		
TaxItemClassification	Tax item classification		Int	4	Yes		
TaxPerUnit1	Tax per unit 1		Float	8	Yes		
TaxPerUnit2	Tax per unit 2		Float	8	Yes		
TaxPerUnit3	Tax per unit 3		Float	8	Yes		
TaxPerUnit4	Tax per unit 4		Float	8	Yes		
TaxPerUnit5	Tax per unit 5		Float	8	Yes		
Timestamp	Timestamp		Timestamp	8	No		
Type	Type		Char	1	Yes		

Chapter 9 | Sample SQL queries


SAMPLE SQL QUERIES
ItemProcessTypes
XML Server
BacoSettings
TaxSchedule

9. 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.

9.1 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
```

9.2 XML Server

1. 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
FROM XMLEvents
INNER JOIN humres ON XMLEvents.HumresID = humres.res_id
WHERE XMLEvents.CompanyCode = '943'
AND XMLEvents.BatchID BETWEEN 3 AND 52
GROUP BY XMLEvents.Topic, XMLEvents.BatchID, humres.res_id, humres.fullname
ORDER BY XMLEvents.BatchID DESC
```

2. 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, (CASE
XMLEvents.EventType WHEN 0 THEN 4467 WHEN 1 THEN 3749 WHEN 2 THEN 1778 END) AS MessageTerm
FROM XMLEvents
WHERE XMLEvents.BatchID = '52'
ORDER BY XMLEvents.EventDate
```

9.3 BacoSettings

1. Query to display the system settings information of type 'General'.

```
SELECT TOP 101 SettingGroup, SettingName, ValueType, StringValue, LongValue, DoubleValue, DateValue FROM BacoSettings
WHERE SettingType=0 AND SettingGroup='general' ORDER BY SettingName
```

9.4 TaxSchedule

1. Query to display the details of the tax schedule where ID is "1".

```
SELECT * from TaxSchedule
WHERE 1=2
```

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