Exact Globe

Database Manual
Project

410

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CONTENTS

PREFACE

To provide a better service for making reports or integrated business solutions, Exact has started with describing the database model of Exact Globe Next and Exact Synergy Enterprise. Since the Exact Globe Next 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 Next or Exact Synergy Enterprise works and has some knowledge about SQL database structures, but lacks sufficient knowledge and information about the Exact Globe Next /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 Project database tables. The database tables described in this manual are based on the latest product update. It is Exact Software's intention to keep the documentation up to date with the latest developments

1. INTRODUCTION

The project data is stored in 5 major tables:

- PrProject
- PrMember
- ProjectAccounts
- PrFreeFields
- ProductivityReports

The main connection between these tables is the [PrProject.ProjectNr] field.
The project code stored in this field is the reference for the [PrMember.ProjectNr], [ProjectAccounts.Project] and [PrFreefields.ProjectNr] fields.

[ProductivityReports] table is to sum up all financial transactions per division, cost center, resource, project, item and date after realization for reporting.

Projects can be linked to each other. This way a parent – child structure is created. The parent – child relation can be found via the [PrProject.ParentProject] field. The value of the [PrProject.ProjectNr] field of the parent project is stored in the [PrProject.ParentProject] field.
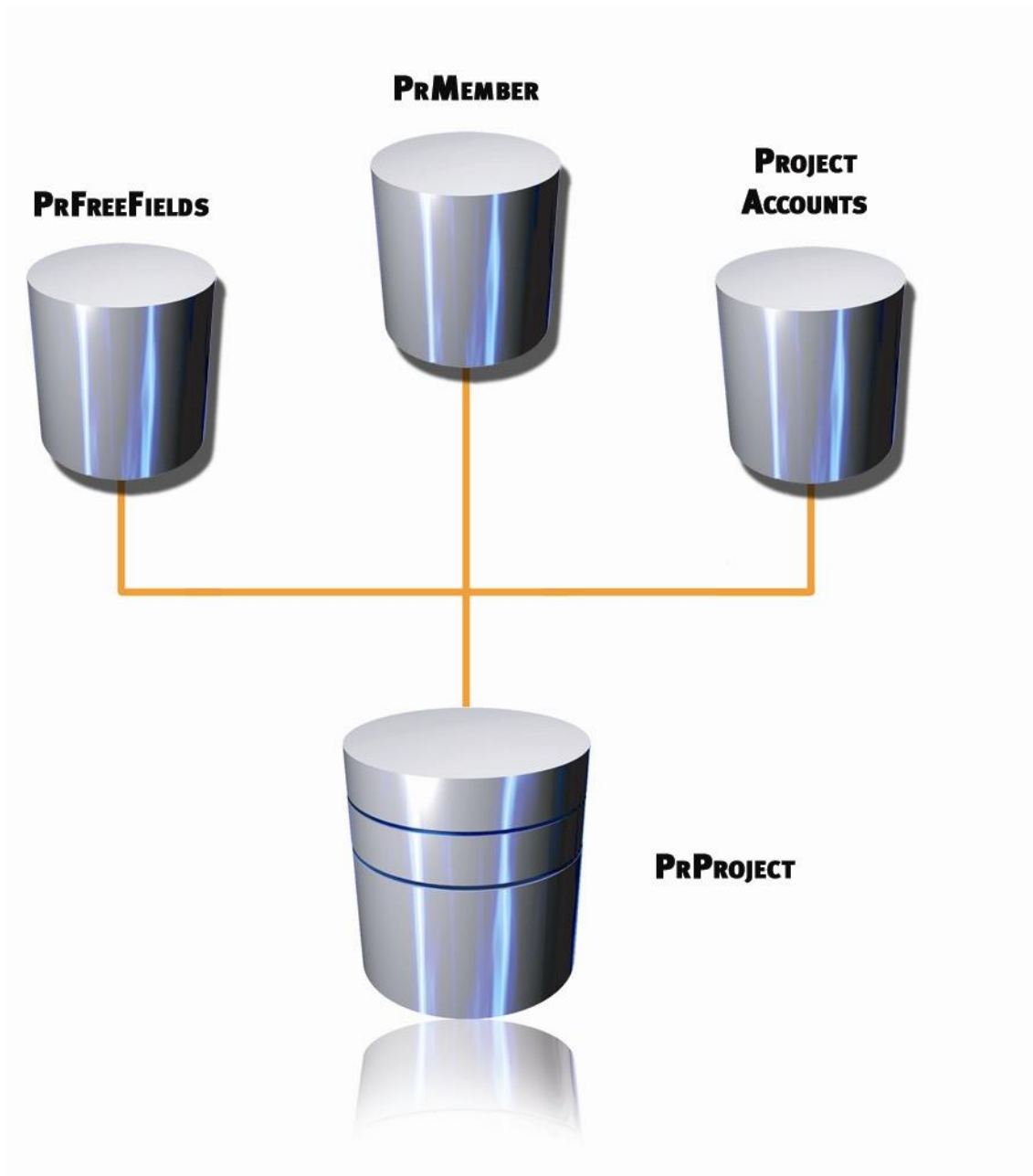
2. PRPROJECT – PROJECTS

2.1 GENERAL DESCRIPTION

The [PrProject] table stores the information about projects. Projects can be created manually by a user, or automatically via a quotation, sales order, service order, production order, project order, XML import and changing Bill of Material.

Depending on 'generate order' in the order settings, a project will be automatically created when saving a sales order. The 'invoice method' in the order settings defines the type of the automatically generated project.

2.2 PRPROJECT FIELD DETAILS

Assortment – Assortment
The [PrProject.Assortment] field stores the item group code (Exact Globe Next terminology) / assortment code (Exact Synergy terminology) to which the project is linked. The [PrProject.Assortment] field refers to the [ItemAssortment.Assortment] field.

BackFlushing – Back flushing
The [PrProject.BackFlushing] field indicates if the project originates from the module E-Project or not. The value '0' indicates that the project originates from E-Project. The value '1' indicates that the project originates from a sales order or quotation.

Complete – Completed
The [PrProject.Complete] field is not used.

Compression – Compression Option
The [PrProject.Compression] field stores the compression option. This compression option is to minimize the transaction created in sales order and invoice proposal. So that the process will be smoother for certain type of invoicing project that do not required details information.

Option	Description
None	No records compression will be performed.
Project, Item, Date	Records with similar project, item, and date value will be grouped together and compressed.
Project, Resource, Date	Records with similar project, resource, and date value will be grouped together and compressed. When this option is used it is mandatory to specify an Hour Item for the Output (Product) field.
Skipped (S)	Records of sales order line will be skipped. When this option is selected and hours are authorized, its sales order lines will not be adjusted (add / split). This will avoid the issue where sales order lines exceeding the max line allowed (9000 lines) via project authorization, meanwhile retaining the detailed billing information (realized hours).
Production order	Production order number

CostCenter – Cost center
The [PrProject.CostCenter] field stores the default cost center code of the project.
This is the cost center that has the main responsibility for the account. For automatically created projects, the [PrProject.CostCenter] field will be populated with the cost center of the project manager ([PrProject.Responsible]). In case a labor or expense entry is made and no cost center can be found via the resource, then the cost center from the project is used. Next to that, the field is used for categorization purposes. The [PrProject.CostCenter] field refers to the [Kstpl.Kstplcode] field.

CostUnit – Cost unit
The [PrProject.CostUnit] field stores the default cost unit code of the project. In case a labor or expense entry is made and no cost unit can be found via the resource, then the cost unit from the project is used. Next to that, the field is used for categorization purposes. The [PrProject.CostUnit] field refers to the [Kstdr.KstdrCode] field.

DateField1 – Free date field 1
The [PrProject.Datefield1] field is a free field in date format (date-time). The user defines the meaning of this extra project information. The definition for the [PrProject.Datefield1] is stored in the [PrFreeFields] table.

DateField2 – Free date field 2
The [PrProject.Datefield2] field is a free field in date format (date-time). The user defines the meaning of this extra project information. The definition for the [PrProject.Datefield2] is stored in the [PrFreeFields] table.

DateField3 – Free date field 3
The [PrProject.Datefield3] field is a free field in date format (date-time). The user defines the meaning of this extra project information. The definition for the [PrProject.Datefield3] is stored in the [PrFreeFields] table.

DateField4 – Free date field 4
The [PrProject.Datefield4] field is a free field in date format (date-time). The user defines the meaning of this extra project information. The definition for the [PrProject.Datefield4] is stored in the [PrFreeFields] table.

DateField5 – Free date field 5
The [PrProject.Datefield5] field is a free field in date format (date-time). The user defines the meaning of this extra project information. The definition for the [PrProject.Datefield5] is stored in the [PrFreeFields] table.

Description – Description
The [PrProject.Description] field stores the description of the project.

Division – Division
The [PrProject.Division] field stores the division code linked to the project. In Exact Globe Next the [PrProject.Division] field is always filled by default since there is only one division in Exact Globe Next. The [PrProject.Division] field refers to the [Bedryf.Bedrnr] field.

DivisionX – DivisionX
The [PrProject.DivisionX] field stores the division code of the user's division. The [PrProject.DivisionX] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

DLConfirmation – Confirmation document
The [PrProject.DLConfirmation] field stores the ID of the document that is linked to the project as confirmation document. The [PrProject.DLConfirmation] field refers to the [BacoDiscussions.ID] field.

> **Note:**
> This field is only used in Exact Synergy.

DLEvaluation – Evaluation document
The [PrProject.DLEvaluation] field stores the ID of the document that is linked to the project as evaluation document. The [PrProject.DLEvaluation] field refers to the [BacoDiscussions.ID] field.

> **Note:**
> This field is only used in Exact Synergy.

DLProposal – Proposal document
The [PrProject.DLProposal] field stores the ID of the document that is linked to the project as proposal document. The [PrProject.DLProposal] field refers to the [BacoDiscussions.ID] field.

> **Note:**
> This field is only used in Exact Synergy.

DrawingNumber – Drawing number
The [PrProject.DrawingNumber] field stores the drawing number in production order.

EstCost – Estimated costs
The [PrProject.EstCost] field is not used.

EstCostCcy – Estimated cost currency code
The [PrProject.EstCostCcy] field is not used.

EstRev – Estimated revenue
The [PrProject.EstRev] field is not used.

EstRevCcy – Estimated revenue currency code
The [PrProject.EstRevCcy] field is not used.

HourlyRate – Hourly rate
The [PrProject.HourlyRate] field is not used.

HourlyRateBasis – Hourly rate basis
The [PrProject.HourlyRateBasis] field is not used.

HourlyRateBasisExt – Hourly rate basis external
The [PrProject.HourlyRateBasisExt] field is not used.

HourMember – Linked members only
The [PrProject.HourMember] field indicates if only project members can realize hours on that project. The value '0' indicates that all resources can realize hours. The value '1' indicates that only project members can realize hours. This is defined by marking the setting "Realization: Members".

ID – ID
The [PrProject.ID] field stores the system generated database record identification number. This field is used to generate a price list code for item/resource specific rates defined for a project (stored in the [Stfoms] and [Staffl] tables).

IDCustomer – Account
The [PrProject.IDCustomer] field stores the unique ID of the account that is linked to the project. This account is linked manually (in Exact Synergy) or automatically (in Exact Globe Next). The [PrProject.IDCustomer] field refers to the [Cicmpy.Cmp_wwn] field.

IDItemNumbers – Serial number
The [PrProject.IDItemNumbers] field is not used.

IDJobActivity – Job activity
The [PrProject.IDJobActivity] field is not used.

IDJobgroup – Job group
The [PrProject.IDJobGroup] field stores the ID of the job group that is linked to the project. This field can be used for grouping / categorizing projects. The [PrProject.IDJobGroup] field refers to the [HrFree.ID] field (where [HrFree.FileType] = "JG"). This field is only used in Exact Synergy.

IDReseller – Reseller
The [PrProject.IDReseller] field is not used.

Image – Picture
The [PrProject.Image] field stores the binary format of the picture linked to the project.

ImageFileName – Picture file name
The [PrProject.ImageFileName] field stores the name of file that is linked to the project as picture [PrProject.Image]. In Exact Globe Next, the full path of the file name is stored in this field.

InitialEndDate – Planned end date
The [PrProject.InitialEndDate] field stores the planned end date of the project.

InitialStartDate – Planned start date
The [PrProject.InitialStartDate] field stores the planned start date of the project.

ItemCode – Item code
The [PrProject.ItemCode] field stores the code of the item linked to the project. The [PrProject.ItemCode] field refers to the [Items.ItemCode] field.

Labour – Work In Progress method

The [PrProject.Labour] field indicates the Work In Progress (WIP) method that is used for the project. The [PrProject.Labour] field refers to the [DDTests] table which contains the following values for this field:

Value	Description
B	Percentage of completion cost recognition (budget)
C	Percentage of completion of costs
D	Production
E	Percentage of completion revenue recognition (budget)
K	Completed contract method
N	No
P	To be Invoiced
R	Percentage of completion of revenue
S	Cost of sales method

LinkHour – Linked activities only

The [PrProject.LinkHour] field indicates if only hour items that are linked to the project can be used in realization of hours on that project. The value '0' indicates that all hour items can be used. The value '1' indicates that only hour items that are linked to the project can be used. This is defined by marking the setting "Realization: Linked hour item only".

Machine – Machine

The [PrProject.Machine] field is not used.

Magcode – Warehouse

The [PrProject.Magcode] field stores the warehouse linked to the project. The [PrProject.Magcode] field refers to the [Magaz.Magcode] field.

Material – Material

The [PrProject.Material] field is not used.

MaterialLine – Material line

The [PrProject.MaterialLine] field indicates if a sales order is linked to a parent project of the child project. If a sales order is linked to either the parent project or the child project, the [PrProject.MaterialLine] is filled with "1".

Memo – Memo

The [PrProject.Memo] field stores the extra description a user can enter for a project.

NumberField1 – Free number field 1

The [PrProject.Numberfield1] field is a free field in number format. The user defines the meaning of this extra account information. The definition for the [PrProject.Numberfield1] field is stored in the [PrFreeFields] table.

NumberField2 – Free number field 2

The [PrProject.Numberfield2] field is a free field in number format. The user defines the meaning of this extra account information. The definition for the [PrProject.Numberfield2] field is stored in the [PrFreeFields] table.

NumberField3 – Free number field 3

The [PrProject.Numberfield3] field is a free field in number format. The user defines the meaning of this extra account information. The definition for the [PrProject.Numberfield3] field is stored in the [PrFreeFields] table.

NumberField4 – Free number field 4
The [PrProject.Numberfield4] field is a free field in number format. The user defines the meaning of this extra account information. The definition for the [PrProject.Numberfield4] field is stored in the [PrFreeFields] table.

NumberField5 – Free number field 5
The [PrProject.Numberfield5] field is a free field in number format. The user defines the meaning of this extra account information. The definition for the [PrProject.Numberfield5] field is stored in the [PrFreeFields] table.

ParentProject – Parent project
The [PrProject.ParentProject] field stores the parent project code of a child project. A project is a child project if the [PrProject.ParentProject] field is filled.

ProjectNr – Project code
The [PrProject.ProjectNr] field stores the code of a project. For manually created project, the user defines the project code. For automatically generated projects, the project code will be derived from the origin of the project:

Origin	Project code
Quotation	Quotation number
Sales order	Sales order number
CRM grouping	CRM~GROUP: <sequence number>
Change Bill of Material	BOM: <BOM item code>.<sequence number>
Production order	Production order number

Release – Release
The [PrProject.Release] field is not used.

Responsible – Project manager
The [PrProject.Responsible] field stores the manager of the project. The [PrProject.Responsible] field refers to the [Humres.Res_ID] field. The project manager will also be stored as a project member in the [PrMember] table ([PrMember.Res_ID] will have the same value and [PrMember.IsProjectManager] will have the value "1").

Security – Security level
The [PrProject.Security] field stores the security level of the project. The security level can only be set manually in Exact Synergy. In Exact Globe Next, the security level will be default filled with "10".

SerialNumber – Serial number
The [PrProject.SerialNumber] field stores the serial number linked to the project. The [PrProject.SerialNumber] field refers to the [ItemNumbers.Number] field.

Status – Status
The [PrProject.Status] field indicates the status of the project. The [PrProject.Status] field refers to the [DDTests] table which contains the following values for this field:

Value	Description
A	Active
B	Blocked
C	Completed
P	Proposed

Note:
A temporary status known as 'x' is assigned to project that is awaiting completion. This status is stored in a variable for background job checking to prevent a project from being completed by different users in a multi-user environment, if there are other tasks in the project that are not completed yet.

SubType – Sub-type
The [PrProject.SubType] field indicates whether the project is a Kanban order or production order.

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

Syscreator – Creator
The [PrProject.Syscreator] field stores the resource that created the projects. The [PrProject.Syscreator] field refers to the [Humres.Res_ID] field.

Sysguid – Sysguid
The [PrProject.Sysguid] is used to link the SDK linked tables to the standard tables, for external developers, it's possible for them to create extra/custom fields. These custom fields are not added to the standard tables but a linked table. That is why a linked table is created once a custom field is added to a standard table. When saving values of custom fields of a record, the values of these custom fields are stored in the linked table and not in the standard table. In the linked table a field called linkID, will link to the record of the standard table via the [PrProject.Sysguid] field of the standard table.

Sysmodified – Modified date and time
The [PrProject.Sysmodified] field stores the date and time that the projects was last modified. Initially, this field contains the creation date.

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

TextField1 – Free text field 1
The [PrProject.TextField1] field is a free field in text format. The user defines the meaning of this extra account information. The definition for the [PrProject.TextField1] field is stored in the [PrFreeFields] table.

TextField2 – Free text field 2
The [PrProject.TextField2] field is a free field in text format. The user defines the meaning of this extra account information. The definition for the [PrProject.TextField2] field is stored in the [PrFreeFields] table.

TextField3 – Free text field 3
The [PrProject.TextField3] field is a free field in text format. The user defines the meaning of this extra account information. The definition for the [PrProject.TextField3] field is stored in the [PrFreeFields] table.

TextField4 – Free text field 4
The [PrProject.TextField4] field is a free field in text format. The user defines the meaning of this extra account information. The definition for the [PrProject.TextField4] field is stored in the [PrFreeFields] table.

TextField5 – Free text field 5
The [PrProject.TextField5] field is a free field in text format. The user defines the meaning of this extra account information. The definition for the [PrProject.TextField5] field is stored in the [PrFreeFields] table.

Timestamp – Timestamp
The [PrProject.Timestamp] field is a technical field, which the SQL server triggers. The timestamp sorts the projects in created or changed order. The system assigns a new timestamp for each new record and updates the timestamp of the changed records. The system uses the timestamp for replication.

Type – Type
The [PrProject.Type] field stores the type of the project. In Exact Globe Next, depending on the type that is chosen, the sales order (if type is 'Fixed' or 'Time & Material') or production order (if type is 'Production') entry application is started if user leaves the 'Type' field. If the type is 'Fixed' or 'Time & Material' user are asked if want to create a new sales order for the project (select 'Continue') or link the project to an existing sales order (select 'Cancel'). The [PrProject.Type] field refers to the [DDTests] table which contains the following values for this field:

Value	Description
F	Fixed
H	Time & Material
I	Internal
P	Production
T	Training

VisibleMember – Visible to members
The [PrProject.VisibleMember] field indicates if the project is only visible to project members or not. The value "0" indicates that the project can be viewed by all resources (depending on the security level). The value "1" indicates that the project can be viewed only by project members (stored in table [PrMember]).

WIP_Account – WIP cost general ledger account number
The [PrProject.WIP_Account] field stores the Work In Progress (WIP) general ledger account number of a project of type "Production". When a project of type "Production" is created, (setting the WIP method automatically to "Production"), the WIP general ledger account number of this project will be filled with the production WIP general ledger account number defined in the project settings. The [PrProject.WIP_Account] field refers to the [Grtbk.Reknr] field.

WIP_Method – Use WIP
The [PrProject.WIP_Method] field is not used.

WIP_Revenue – WIP revenue general ledger account number
The [PrProject.WIP_Revenue] field is not used.

YesNoField1 – Free 'yes / no' field 1
The [PrProject.YesNoField1] field is a free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information. The definition for the [PrProject.YesNoField1] field is stored in the [PrFreeFields] table.

YesNoField2 – Free 'yes / no' field 2
The [PrProject.YesNoField2] field is a free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information. The definition for the [PrProject.YesNoField2] field is stored in the [PrFreeFields] table.

YesNoField3 – Free 'yes / no' field 4
The [PrProject.YesNoFiel31] field is a free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information. The definition for the [PrProject.YesNoField3] field is stored in the [PrFreeFields] table.

YesNoField4 – Free 'yes / no' field 4
The [PrProject.YesNoField4] field is a free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information. The definition for the [PrProject.YesNoField4] field is stored in the [PrFreeFields] table.

YesNoField5 – Free 'yes / no' field 5
The [PrProject.YesNoField5] field is a free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information. The definition for the [PrProject.YesNoField5] field is stored in the [PrFreeFields] tabl

3. PRMEMBER – PROJECT MEMBERS

3.1 GENERAL DESCRIPTION

The [PrMember] table stores the information about project members. Project members can be added to a project by the project manager. By defining a start and end date for a project member, the project member will have access to project specific data for a limited period.

3.2 PRMEMBER FIELD DETAILS

Cmp_wwn – Account
The [PrMember.Cmp_wwn] field is not used.

Division – Division
The [PrMember.Division] field stores the division code of the user's division. The [PrMember.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

FromDate – From date
The [PrMember.FromDate] field stores the date from which on the resource is a member of the project.

IDMember – ID member
The [PrProject.IDMember] field stores the unique ID of the project member. The [PrProject.IDMember] field is the reference field for other tables that need a reference to the [PrMember] table.

IsProjectManager – Is project manager
The [PrMember.IsProjectManager] field indicates if the project member is the manager of the project. The value "1" indicates that the member is the project manager. The value "0" indicates that the member is not the project manager. For each project, there is only one project manager.

ProjectNr – Project number
The [PrMember.ProjectNr] field stores the code of the project of which the resource is a member. The [PrMember.ProjectNr] field refers to the [PrProject.ProjectNr] field.

Res_ID – Resource ID
The [PrMember.Res_ID] field stores the resource ID of the project member. The [PrMember.Res_ID] field refers to the [Humres.Res_ID] field.

UntilDate – Until date
The [PrMember.UntilDate] field stores the date until the resource is a member of the project.

4. PROJECTACCOUNTS – PROJECT ACCOUNTS

4.1 GENERAL DESCRIPTION

The [ProjectAccounts] table stores the information about accounts linked to specific projects. Besides a 'main' account that can be linked to a project, other accounts can be linked to a project as well.

4.2 PROJECTACCOUNTS FIELD DETAILS

Account – Account
The [ProjectAccounts.Account] field stores the ID of the account linked to the project. The [ProjectAccounts.Account] field refers to the [Cicmpy.Cmp_wwn] field.

Division – Division
The [ProjectAccounts.Division] field stores the division code of the user's division. The [ProjectAccounts.Division] field stores the numeric value of the [Bedryf.Bedrnr] field. This field is not used yet. It is added for future functionality.

Project – Project
The [ProjectAccounts.Project] field stores the code of the project to which the account is linked.

5. PRFREEFIELDS – PROJECT FREE FIELDS

5.1 GENERAL DESCRIPTION

The [PrFreeFields] table stores the definitions of the free fields for the [PrProject] table. This table is only used in Exact Synergy.

In Exact Synergy, a free field is considered active when the description field of the free field is used. Only when the description of the free field is used, will this free field be available in the maintenance of a project.

In Exact Globe Next, all free fields are available in the maintenance of a project, regardless whether or not the description of a free field is used or not. The description of a free field is stored in Exact Globe Next in the table [Terms] as a customized term.

5.2 PRFREEFIELDS FIELD DETAILS

DateField1 – Date field 1
The [PrFreeFields.Datefield1] field stores the label of the first free field in date format (date-time). The user defines the meaning of this extra project information.

DateField2 – Date field 2
The [PrFreeFields.Datefield2] field stores the label of the second free field in date format (date-time). The user defines the meaning of this extra project information.

DateField3 – Date field 3
The [PrFreeFields.Datefield3] field stores the label of the third free field in date format (date-time). The user defines the meaning of this extra project information.

DateField4 – Date field 4
The [PrFreeFields.Datefield4] field stores the label of the fourth free field in date format (date-time). The user defines the meaning of this extra project information.

DateField5 – Date field 5
The [PrFreeFields.Datefield5] field stores the label of the fifth free field in date format (date-time). The user defines the meaning of this extra project information.

Division – Division
The [PrFreeFields.Division] field stores the division code of the division for which the free field is defined. The [PrFreeFields.Division] field refers to the [Bedryf.Bedrnr] field.

> **Note:**
> If the [PrFreeFields.Division] field value is "ALL" then the definition is valid for all divisions.

DivisionX – DivisionX
The [PrFreeFields.DivisionX] field stores the division code of the user's division. The [PrFreeFields.DivisionX] 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 [PrFreeFields.ID] field stores the system generated database record identification number. This field is not functionally used.

NumberField1 – Number field 1
The [PrFreeFields.Numberfield1] field stores the label of the first free field in number format. The user defines the meaning of this extra account information.

NumberField2 – Number field 2
The [PrFreeFields.Numberfield2] field stores the label of the second free field in number format. The user defines the meaning of this extra account information.

NumberField3 – Number field 3
The [PrFreeFields.Numberfield3] field stores the label of the third free field in number format. The user defines the meaning of this extra account information.

NumberField4 – Number field 4
The [PrFreeFields.Numberfield4] field stores the label of the fourth free field in number format. The user defines the meaning of this extra account information.

NumberField5 – Number field 5
The [PrFreeFields.Numberfield5] field stores the label of the fifth free field in number format. The user defines the meaning of this extra account information.

TableName – Table name
The [PrFreeFields.TableName] field stores the table name for which the free field is defined. This field will have the value "PrProject".

TextField1 – Text field 1
The [PrFreeFields.TextField1] field stores the label of the first free field in text format.
The user defines the meaning of this extra account information.

TextField2 – Text field 2
The [PrFreeFields.TextField2] field stores the label of the second free field in text format. The user defines the meaning of this extra account information.

TextField3 – Text field 3
The [PrFreeFields.TextField3] field stores the label of the third free field in text format.
The user defines the meaning of this extra account information.

TextField4 – Text field 4
The [PrFreeFields.TextField4] field stores the label of the fourth free field in text format. The user defines the meaning of this extra account information.

TextField5 – Text field 5
The [PrFreeFields.TextField5] field stores the label of the fifth free field in text format. The user defines the meaning of this extra account information.

YesNoField1 – Yes / no field 1
The [PrFreeFields.YesNoField1] field stores the label of the first free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information.

YesNoField2 – Yes / no field 2
The [PrFreeFields.YesNoField2] field stores the label of the second free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information.

YesNoField3 – Yes / no field 3
The [PrFreeFields.YesNoField3] field stores the label of the third free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information.

YesNoField4 – Yes / no field 4
The [PrFreeFields.YesNoField4] field stores the label of the fourth free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information.

YesNoField5 – Yes / no field 5
The [PrFreeFields.YesNoField5] field stores the label of the fifth free field in yes/no format (numeric: "1"= yes, "0"= no). The user defines the meaning of this extra account information.

6. PRODUCTIVITYREPORTS – PRODUCTIVITY REPORTS

6.1 GENERAL DESCRIPTION

The [ProductivityReports] table is used to sum up all financial transactions per division, cost center, resource, project, item and date after realization for reporting.

6.2 PRODUCTIVITYREPORTS FIELD DETAILS

AbsenceInQty – AbsenceInQty
The [ProductivityReports.AbsenceInQty] field stores the number of total request.

Activity – Activity
The [ProductivityReports.Activity] field stores the code of the item linked to the project. The [ProductivityReports.Activity] field refers to the [Items.ItemCode] field.

ActualCostsInAmt – Actual costs in amount
The [ProductivityReports.ActualCostsInAmt] field stores the total actual cost in amount of the transaction.

ActualCostsInQty – Actual costs in quantity
The [ProductivityReports.ActualCostsInQty] field stores the total actual cost in hours of the transaction.

ActualRevenueInAmt – Actual revenue in amount
The [ProductivityReports.ActualRevenueInAmt] field stores the total actual Revenue in amount of the transaction.

ActualRevenueInQty – Actual revenues in quantity
The [ProductivityReports.ActualRevenueInQty] field stores the total actual Revenue in hours of the transaction.

BudgetCostsInAmt – Budget costs in amount
The [ProductivityReports.BudgetCostsInAmt] field stores the total budgeted cost in amount of the transaction.

BudgetCostsInQty – Budget costs in quantity
The [ProductivityReports.BudgetCostsInQty] field stores the total budgeted cost in hours of the transaction.

BudgetRevenueInAmt – Budget revenue in amount
The [ProductivityReports.BudgetRevenueInAmt] field stores the total budgeted revenue in amount of the transaction.

BudgetRevenueInQty – Budget revenue in quantity
The [ProductivityReports.BudgetRevenueInQty] field stores the total budgeted revenue in hours of the transaction.

CapacityOrAvailabilityInQty – Capacity or availability in quantity
The [ProductivityReports.CapacityOrAvailabilityInQty] field stores the total of planned capacity.

CostCenter – Cost center
The [ProductivityReports.CostCenter] field stores the cost center code of the project. This is the cost center that has the main responsibility for the account.

Division – Division
The [ProductivityReports.Division] field stores the division code of the division.

DivisionX – DivisionX
The [ProductivityReports.DivisionX] field is not used yet. It is added for future functionality.

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

Project – Project code
The [ProductivityReport.Project] field stores the code of a project.

RequestHID – Request HID
The [ProductivityReport.RequestHID] field will be filled with the [Gbkmut.freefield3] field (Request ID).

Resource – Resource
The [ProductivityReport.Resource] field stores the resource code of the project.

TransactionDate – Transaction date
The [ProductivityReport.TransactionDate] field stores the transaction date of the project.

7. JOBEXCEPTIONS – JOB EXCEPTIONS

7.1 GENERAL DESCRIPTION

The [JobExceptions] table stores the exceptions information generated from the Visual Scheduler.

7.2 JOBEXCEPTIONS FIELD DETAILS

Description – Description
The [JobExceptions.Description] field stores the description of the job exceptions.

ExceptionType – Exception type
The [JobExceptions.ExceptionType] field stores the code of the exceptions.

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

JobOperationID – Job operation ID
The [JobExceptions.JobOperationID] field stores the ID of the job operation for the job exception.

MaterialRequirementID – Material requirement ID
The [JobExceptions.MaterialRequirementID] field stores the ID of the material requirement for the job exception.

ObjectGUID – Object GUID
The [JobExceptions.ObjectGUID] field stores the GUID of the job exception.

Requirement – Requirement
The [JobExceptions.Requirement] field stores the item that is related to the exception.

Syscreated – Created date and time
The [JobExceptions.Syscreated] field stores the date and time the job exception was created.

Syscreator – Creator
The [JobExceptions.Syscreator] field stores the resource that created the job exception. The [JobExceptions.Syscreator] field refers to the [Humres.Res_ID] field.

Sysguid – Sysguid
The [JobExceptions.Sysguid] field is used to link the SDK linked tables to the standard tables. For external developers, it is possible for them to create extra or custom fields. These custom fields are not added to the standard tables but a linked table. That is why a linked table is created once a custom field is added to a standard table. When saving the values of the custom fields of a record, the values of these custom fields are stored in the linked table and not in the standard table. In the linked table, a field called linkID will link to the record of the standard table via the [JobExceptions.Sysguid] field of the standard table.

Sysmodified – Modified date and time
The [JobExceptions.Sysmodified] field stores the date and time the job exception was last modified.
Initially, this field contains the creation date.

Sysmodifier – Modifier
The [JobExceptions.Sysmodifier] field stores the resource that last modified the job exception. Initially,
this field contains the creator as stored in the [JobExceptions.Syscreator] field. The
[JobExceptions.Sysmodifier] field refers to the [Humres.Res_ID] field.

8. OPERATIONDISPLAYSEQUENCE – OPERATION DISPLAY SEQUENCE

8.1 GENERAL DESCRIPTION

The [OperationDisplaySequence] table stores the sequence of the job operation in the visual scheduler.

8.2 OPERATIONDISPLAYSEQUENCE FIELD DETAILS

Description – Description
The [OperationDisplaySequence.Description] field stores the name of the item in the respective sequence. If the value of the [OperationDisplaySequence.Type] field is "O", the [OperationDisplaySequence.Description] field will be NULL. If the value of the [OperationDisplaySequence.Type] field is not "O", the [OperationDisplaySequence.Description] field will store the name of the item for the sequence.

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

ObjectGUID – Object GUID
The [OperationDisplaySequence.ObjectGUID] field stores the GUID of the job operation.

OperationID – Operation ID
The [OperationDisplaySequence.OperationID] field stores the ID of the job operation.

Sequence – Sequence
The [OperationDisplaySequence.Sequence] field stores the sequence of the job operation that will be displayed in the visual scheduler.

Syscreated – Created date and time
The [OperationDisplaySequence.Syscreated] field stores the date and time the sequence of the job operation was created.

Syscreator – Creator
The [OperationDisplaySequence.Syscreator] field stores the resource that created the sequence of the job operation. The [OperationDisplaySequence.Syscreator] field refers to the [Humres.Res_ID] field.

Sysguid – Sysguid
The [OperationDisplaySequence.Sysguid] field is used to link the SDK linked tables to the standard tables. For external developers, it is possible for them to create extra or custom fields. These custom fields are not added to the standard tables but a linked table. That is why a linked table is created once a custom field is added to a standard table. When saving the values of the custom fields of a record, the values of these custom fields are stored in the linked table and not in the standard table. In the linked table, a field called linkID will link to the record of the standard table via the [OperationDisplaySequence.Sysguid] field of the standard table.

Sysmodified – Modified date and time
The [OperationDisplaySequence.Sysmodified] field stores the date and time the sequence of the job operation was last modified. Initially, this field contains the creation date.

Sysmodifier – Modifier
The [OperationDisplaySequence.Sysmodifier] field stores the resource that last modified the sequence of the job operation. Initially, this field contains the creator as stored in the [OperationDisplaySequence.Syscreator] field. The [OperationDisplaySequence.Sysmodifier] field refers to the [Humres.Res_ID] field.

Type – Type
The [OperationDisplaySequence.Type] field stores the type for the sequence of the job operation. The [OperationDisplaySequence.Type] field stores the following values:

Value	Description
O	Operation
I	Tooltip information
D	Information sequence on planning bars
S	Indicator to show label and load hours

9. FIELD PROPERTIES

9.1 PRPROJECT

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Assortment	Assortment	ItemAssortment.Assortment	int	4	Yes	1162	
BackFlushing	Back flushing		tinyint	1	No	10119	0
Complete	Completed		float	8	Yes	4625	
Compression	Compression option		char	1	Yes	5069	
CostCenter	Cost center	Kstpl.KstplCode	char	8	Yes	8494	
CostUnit	Cost unit	Kstdr.KstdrCode	char	8	Yes	1194	
CSPICKITLatestTryInService			datetime	8	Yes		
DateField1	Free date field 1		datetime	8	Yes	17357	
DateField2	Free date field 2		datetime	8	Yes	17360	
DateField3	Free date field 3		datetime	8	Yes	17362	
DateField4	Free date field 4		datetime	8	Yes	17371	
DateField5	Free date field 5		datetime	8	Yes	17373	
Description	Description		varchar	60	No	4243	
Division	Division	Bedryf.Bedrnr	char	3	No		
DivisionX	DivisionX		smallint	2	Yes		
DLConfirmation	Confirmation document	BacoDiscussions.ID	uniqueidentifier	16	Yes		
DLEvaluation	Evaluation document	BacoDiscussions.ID	uniqueidentifier	16	Yes		
DLProposal	Proposal document	BacoDiscussions.ID	uniqueidentifier	16	Yes		
DrawingNumber	Drawing number		varchar	25	Yes	2819	
EstCost	Estimated costs		float	8	Yes	8509	0
EstCostCcy	Estimated cost currency code		char	3	Yes	8509	
EstRev	Estimated revenue		float	8	Yes	8509	0
EstRevCcy	Estimated revenue currency code		char	3	Yes	8509	
HourlyRate	Hourly rate		float	8	No	3203	0.0
HourlyRateBasis	Hourly rate basis		char	1	Yes	18283	
HourlyRateBasisExt	Hourly rate basis external		char	1	Yes	17061	
HourMember	Linked members only		tinyint	1	Yes	6171	
ID	ID		int	4	No		
IDCustomer	Account	Cicmpy.Cmp_wwn	uniqueidentifier	16	Yes	3264	
IDItemNumbers	Serial number		uniqueidentifier	16	Yes		
IDJobActivity	Job activity		int	4	Yes		
IDJobgroup	Job group		int	4	Yes	29538	
IDReseller	Reseller		uniqueidentifier	16	Yes		
Image	Picture		varbinary	Max	Yes		
ImageFileName	Picture file name		varchar	128	Yes		
InitialEndDate	Planned end date		datetime	8	Yes	22526	
InitialStartDate	Planned start date		datetime	8	Yes	3392	
ItemCode	Item code	Items.ItemCode	char	30	Yes	8702	
Labour	Work In Progress Method		char	1	Yes	10834	
LinkHour	Linked activities only		tinyint	1	Yes	14091	
Machine	Machine		char	1	Yes	3167	

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
MagCode	Warehouse	Magaz.MagCode	char	4	Yes	1391	
Material	Material		char	1	Yes	9516	
MaterialLine	Material line		char	4	Yes	9517	
Memo	Memo		varchar	Max	Yes		
NumberField1	Free number field 1		float	8	Yes	19940	
NumberField2	Free number field 2		float	8	Yes	19974	
NumberField3	Free number field 3		float	8	Yes	19988	
NumberField4	Free number field 4		float	8	Yes	19035	
NumberField5	Free number field 5		float	8	Yes	19045	
ParentProject	Parent project		char	20	Yes	275	
ProjectNr	Project code		char	20	No	2114	
Release	Release		char	30	Yes		
Responsible	Project manager	Humres.Res_ID	int	4	Yes	29906	
Security	Security level		int	4	Yes		
SerialNumber	Serial number	ItemNumbers.Number	varchar	30	Yes	6057	
Status	Status	DDTests	char	1	Yes	4332	
SubType	Sub-type		Tinyint	1	No		0
Syscreated	Created date and time		datetime	8	Yes	0	
Syscreator	Creator	Humres.Res_ID	int	4	Yes	0	
Sysguid	Sysguid		uniqueidentifier	16	Yes		
Sysmodified	Modified date and time		datetime	8	Yes	0	
Sysmodifier	Modifier	Humres.Res_ID	int	4	Yes	0	
TextField1	Free text field 1		varchar	80	Yes	19583	
TextField2	Free text field 2		varchar	80	Yes	19635	
TextField3	Free text field 3		varchar	80	Yes	19657	
TextField4	Free text field 4		varchar	80	Yes	19806	
TextField5	Free text field 5		varchar	80	Yes	19872	
timestamp	timestamp		timestamp	8	Yes		
Type	Type	DDTests	char	1	Yes	3801	
VisibleMember	Visible to members		tinyint	1	Yes		
WIP_Account	WIP cost general ledger account number	Grtbk.Reknr	char	9	Yes	23362	
WIP_Method	Use WIP		char	1	Yes	16874	
WIP_Revenue	WIP revenue general ledger account number		char	9	Yes	789	
YesNoField1	Free 'yes / no' field 1		tinyint	1	Yes	17313	
YesNoField2	Free 'yes / no' field 2		tinyint	1	Yes	17320	
YesNoField3	Free 'yes / no' field 3		tinyint	1	Yes	17342	
YesNoField4	Free 'yes / no' field 4		tinyint	1	Yes	17351	
YesNoField5	Free 'yes / no' field 5		tinyint	1	Yes	17355	

9.2 PRMEMBER

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Cmp_wwn	Account		uniqueidentifier	16	Yes		
Division	Division		smallint	2	Yes		
FromDate	From date		datetime	8	Yes		
IDMember	ID member		uniqueidentifier	16	No		
IsProjectManager	Is Project manager		tinyint	1	No		
ProjectNr	Project number	PRProject.ProjectNr	char	20	No		
Res_ID	Resource ID	Humres.Res_ID	int	4	Yes		
UntilDate	Until Date		datetime	8	Yes		

9.3 PROJECTACCOUNTS

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Account	Account	Cicmpy.Cmp_wwn	uniqueidentifier	16	No		
Division	Division		smallint	2	Yes		
Project	Project		char	20	No		

9.4 PRFREEFIELDS

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
DateField1	Date field 1		varchar	30	Yes		
DateField2	Date field 2		varchar	30	Yes		
DateField3	Date field 3		varchar	30	Yes		
DateField4	Date field 4		varchar	30	Yes		
DateField5	Date field 5		varchar	30	Yes		
Division	Division	Bedryf.Bedrnr	char	3	No		
DivisionX	DivisionX		smallint	2	Yes		
ID	ID		uniqueidentifier	16	No		
NumberField1	Number field 1		varchar	30	Yes		
NumberField2	Number field 2		varchar	30	Yes		
NumberField3	Number field 3		varchar	30	Yes		
NumberField4	Number field 4		varchar	30	Yes		
NumberField5	Number field 5		varchar	30	Yes		
TableName	Table name		varchar	30	No		
TextField1	Text field 1		varchar	30	Yes		
TextField2	Text field 2		varchar	30	Yes		
TextField3	Text field 3		varchar	30	Yes		
TextField4	Text field 4		varchar	30	Yes		
TextField5	Text field 5		varchar	30	Yes		
YesNoField1	Yes/No field 1		varchar	30	Yes		
YesNoField2	Yes/No field 2		varchar	30	Yes		
YesNoField3	Yes/No field 3		varchar	30	Yes		
YesNoField4	Yes/No field 4		varchar	30	Yes		
YesNoField5	Yes/No field 5		varchar	30	Yes		

9.5 PRODUCTIVITYREPORTS

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
AbsenceInQty	AbsenceInQty		float	8	No		
Activity	Activity	Items.ItemCode	char	30	No		
ActualCostInAmt	Actual costs in amount		float	8	No		
ActualCostInQty	Actual costs in quantity		float	8	No		
ActualRevenueInAmt	Actual revenue in amount		float	8	No		
ActualRevenueInQty	Actual revenues in quantity		float	8	No		
BudgetCostsInAmt	Budget costs in amount		float	8	No		
BudgetCostsInQty	Budget costs in quantity		float	8	No		
BudgetRevenueInAmt	Budget revenue in amount		float	8	No		
BudgetRevenueInQty	Budget revenue in quantity		float	8	No		
CapacityOrAvailablityInQty	Capacity or availability in quantity		float	8	No		
Costcenter	Cost center		char	10	Yes		
Division	Division		char	3	Yes		
DivisionX	DivisionX		smallint	2	Yes		
ID	ID		uniqueidentifier	16	No		
Project	Project code		char	20	Yes		
RequestHID	Request HID		varchar	75	Yes		
Resource	Resource		int	4	No		
TransactionDate	Transaction date		datetime	8	No		

9.6 JOBEXCEPTIONS

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Description	Description		varchar	100	Yes		
ExceptionType	Exception type		int	4	Yes		
ID	ID		int	4	No		
JobOperationID	Job operation ID		uniqueidentifier	16	Yes		
MaterialRequirementID	Material requirement ID		uniqueidentifier	16	Yes		
ObjectGUID	Object GUID		uniqueidentifier	16	No		
Requirement	Requirement		varchar	30	Yes		
Syscreated	Created date and time		datetime	8	No		Getdate()
Syscreator	Creator	Humres.Res_ID	int	4	No		0
Sysguid	Sysguid		uniqueidentifier	16	No		Newid()
Sysmodified	Modified date and time		datetime	8	No		Getdate()
Sysmodifier	Modifier	Humres.Res_ID	int	4	No		0

9.7 OPERATIONDISPLAYSEQUENCE

Field name	Description	Reference	Data type	Length	Nullable	Term ID	Default
Description	Description		varchar	30	Yes		
ID	ID		int	4	No		
ObjectGUID	Object GUID		uniqueidentifier	16	No		
OperationID	Operation ID		uniqueidentifier	16	Yes		
Sequence	Sequence		int	4	Yes		
Syscreated	Created date and time		datetime	8	No		Getdate()
Syscreator	Creator	Humres.Res_ID	int	4	No		0
Sysguid	Sysguid		uniqueidentifier	16	No		Newid()
Sysmodified	Modified date and time		datetime	8	No		Getdate()
Sysmodifier	Modifier	Humres.Res_ID	int	4	No		0
Type	Type		char	1	No		O

10. SAMPLE SQL QUERIES

10.1 PRPROJECT

1. Basic query to retrieve the list of active projects of type "Time & Material" with the planned start and end date and the project manager.

   SELECT PrProject.ProjectNr, PrProject.Description, Humres.FullName, PrProject.Type,
   PrProject.InitialStartDate, PrProject.InitialEndDate
   FROM PrProject
   LEFT OUTER JOIN Humres ON Humres.Res_ID = PrProject.Responsible
   WHERE PrProject.Status = 'A'
   AND PrProject.ProjectNr not like 'CRM~GROUP: %'
   AND PrProject.Type = 'H'
   ORDER BY PrProject.ProjectNr

2. Basic query to retrieve the list of all projects that were created manually via the maintenance of projects.

   SELECT PrProject.ProjectNr, PrProject.Description, Humres.FullName, PrProject.Type,
   PrProject.InitialStartDate, PrProject.InitialEndDate
   FROM PrProject
   LEFT OUTER JOIN Humres ON Humres.Res_ID = PrProject.Responsible
   WHERE PrProject.ProjectNr NOT LIKE 'CRM~GROUP: %'
   AND PrProject.BackFlushing = '1'
   ORDER BY PrProject.ProjectNr

3. Basic query to retrieve the list of all active projects that are parent project with the number of child projects.

   SELECT PrProject.ProjectNr, PrProject.Description, Humres.FullName,
   (SELECT COUNT (*)
   FROM PrProject child
   WHERE child.ParentProject = PrProject.ProjectNr) AS TotalChildren
   FROM PrProject
   LEFT OUTER JOIN Humres ON Humres.Res_ID = PrProject.Responsible
   WHERE (EXISTS
   (SELECT p.ProjectNr
   FROM PrProject p
   WHERE p.ParentProject = PrProject.ProjectNr
   AND PrProject.ParentProject IS NULL))
   AND PrProject.Status = 'A'
   ORDER BY PrProject.ProjectNr

10.2 PRMEMBER

1. Basic query to retrieve all members of project "001" with the start and end date of the member and showing which member is the project manager.

    SELECT PrProject.ProjectNr, PrProject.Description, Humres.Res_ID, Humres.FullName,
    PrMember.FromDate, PrMember.UntilDate, PrMember.IsProjectManager
    FROM PrMember
    INNER JOIN Humres ON Humres.Res_ID = PrMember.Res_ID
    INNER JOIN PrProject ON PrProject.ProjectNr = PrMember.ProjectNr
    WHERE PrMember.ProjectNr = '001'
    ORDER BY Humres.Fullname

2. Basic query to retrieve all projects where resource 1234 is a member and showing whether or not the resource 1234 is a project manager.

    SELECT PrMember.ProjectNr, PrProject.Description, PrMember.IsProjectManager
    FROM PrMember
    INNER JOIN PrProject ON PrProject.ProjectNr = PrMember.ProjectNr
    INNER JOIN Humres ON Humres.Res_ID = PrMember.Res_ID
    WHERE PrMember.Res_ID = '1234'
    ORDER BY PrMember.ProjectNr

10.3 PROJECTACCOUNTS

1. Basic query to retrieve the accounts linked to project "001".

    SELECT PrProject.ProjectNr, PrProject.Description, Cicmpy.Cmp_code, Cicmpy.Cmp_name
    FROM ProjectAccounts
    INNER JOIN PrProject ON PrProject.ProjectNr = ProjectAccounts.Project
    INNER JOIN Cicmpy ON Cicmpy.Cmp_wwn = ProjectAccounts.Account
    WHERE ProjectAccounts.Project = '001'
    ORDER BY PrProject.ProjectNr

10.4 PRFREEFIELDS

1. Basic query to retrieve the labels and values for first free text field and the fourth free date field for all projects where one of these two fields is filled.

    SELECT PrProject.ProjectNr, PrProject.Description, PrFreefields.DateField4, PrProject.DateField4,
    PrFreefields.TextField1, PrProject.TextField1
    FROM PrProject
    INNER JOIN PrFreefields on PrFreefields.TableName = 'PrProject'
    WHERE (PrProject.DateField4 IS NOT NULL OR PrProject.TextField1 IS NOT NULL)
    ORDER BY PrProject.ProjectNr

10.5 JOBEXCEPTIONS

1. Query to retrieve job exceptions.

   SELECT * FROM JobExceptions
   WHERE ObjectGUID ='41EF643C-E173-424A-AAB0-82A4ECFB3D01'

10.6 OPERATIONDISPLAYSEQUENCE

1. Query to insert values into the table.

   INSERT INTO OperationDisplaySequence (ObjectGUID, OperationID, Sequence, Syscreated, Syscreator, Sysmodified, Sysmodifier) VALUES
   (0x39D656A77493BD4684CD15EBA135005F, 0x85153D98A3EAC34A952DC563B06C9F25, 1, {ts '2011-08-05 15:45:29.000'}, 1, {ts '2011-08-05 15:45:29.000'}, 1)