

Release 210

Database Documentation | Exact Business Analytics



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software



release 210

Database Documentation | Exact Business Analytics

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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.

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

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Chapter 1 | Reporting tables

1. Reporting tables

A new feature in Exact Synergy Enterprise is the usage of reporting tools, Exact Business Analytics(EBA). To facilitate this functionality some table should be added to store the report (definitions), categorize them and implement security.

1.1 *ReportCategories – Report categories*

1.1.1 General Description

The [ReportCategories] table stores the entire view category.

1.1.2 ReportCategories field details

Description - Description

The [ReportCategories.Description] field stores the description of the category.

Division - Division

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

ID - ID

The [ReportCategories.ID] field stores the ID of the category. The [ReportCategories.ID] field refers to the [GuidRelations.ID] field.

Parent - Parent

The [ReportCategories.Parent] field stores the parent of the category, if any. The [ReportCategories.Parent] field = [ReportCategories.ID] of the parent category.

Product - Product

The [ReportCategories.Product] field stores the product code name.

Syscreated - Created date and time

The [ReportCategories.Syscreated] field stores the date and time the category has been created.

Syscreator - Creator

The [ReportCategories.Syscreator] field stores the ID of the resource who has created the category. The [ReportCategories.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [ReportCategories.Sysmodified] field stores the date and time that the category was last modified. Initially, this field contains the creation date that is stored in the [ReportCategories.Syscreated] field.

Sysmodifier - Modifier

The [ReportCategories.Sysmodified] stores the ID of the resource who last modified the category. Initially, this field contains the creator as is stored in the [ReportCategories.Syscreator] field. The [ReportCategories.Sysmodifier] field refers to the [Humres.Res_ID] field.

1.2 Reports – Reports

1.2.1 General Description

The [Reports] table stores the report definitions. The report explorer and reports search uses this table as well.

1.2.2 Reports field details

BIReportID - BI report ID

The [Reports.BIReportID] field stores a link to the [Object_Repository] table's ID. This links to the Report template of the EBA report.

BIScheduleProcessID - BI schedule process ID

The [Reports.BIScheduleProcessID] field stores the process ID of the deployment process.

Category - Category

The [Reports.Category] field stores the report category. The [Reports.Category] field stores a Guid linked to the [GuidRelations] table (which contains Category hierarchy).

Content - Content

The [Reports.Content] field stores the attachment or blob data of the actual .ptvw report (or .rpt in case of Crystal report).

ContentName - Content name

The [Reports.ContentName] field stores the name of the .ptvw report (attachment name).

Description - Description

The [Reports.Description] field stores the description of the report.

Division - Division

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

HID - HID

The [Reports.HID] field stores the “Human readable ID”. This is a numerical value assigned by the system that can be used for identifying the report.

ID - ID

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

IsSubReport - Sub report

The [Reports.IsSubReport] field is reserved to indicate if a Crystal report is a sub report when the CRW XI integration is to be implemented.

Name - Name

The [Reports.Name] field stores the name of the report.

Parameters - Parameters

The [Reports.Parameters] field stores the parameters xml file as BLOB (not used for EBA Exact Synergy Enterprise integration).

ParentID - Parent ID

The [Reports.ParentID] field is reserved for the CRW XI integration. The [Reports.ParentID] field is related to the [Reports.IsSubReport] field.

ReportSource - Report source

The [Reports.ReportSource] stores the type of the report. The [Reports.ReportSource] can store one of the following values:

| Value | Description |
|-------|--|
| 0 | CRW Report (not used right now) |
| 1 | EBA Report |
| 2 | MS Reporting report (not used right now) |
| 3 | EBA Report template |

Status - Status

The [Reports.Status] field is reserved for the CRW XI integration. In case a CRW XI report is created, it needs to be approved first, just like a document.

Syscreated - Created date and time

The [Reports.Syscreated] field stores the date and time the report has been created.

Syscreator - Creator

The [Reports.Syscreator] field stores the ID of the resource who has created the report. The [Reports.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [Reports.Sysmodified] field stores the date and time that the report was last modified. Initially, this field contains the creation date that is stored in the [Reports.Syscreated] field.

Sysmodifier - Modifier

The [Reports.Sysmodified] stores the ID of the resource who last modified the report. Initially, this field contains the creator as is stored in the [Reports.Syscreator] field. The [Reports.Sysmodifier] field refers to the [Humres.Res_ID] field.

1.3 ReportSecurity – Report security

1.3.1 General Description

The [ReportSecurity] table stores the security rules linked to a report. A report can have multiple security rules. The security rules are generated based on the deployment of the EBA Reports by eDeployment. eDeployment looks at the [Schedule_Object_User] and [Schedule_Object_Group] tables to determine which users or groups of users the Reports should be deployed. For instance, if a Report is deployed with data for one specific user a line in the [ReportSecurity] table will be added.

1.3.2 ReportSecurity field details

Division - Division

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

EndDate - End date

The [ReportSecurity.EndDate] field stores the end date for which the users may view the report.

ID - ID

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

Project - Project

The [ReportSecurity.Project] field stores the project number of which all members should have rights to the report when the [ReportSecurity.Type] field = 2 (Project based).

Report - Report

The [ReportSecurity.Report] field stores the Guid of the report that is stored in the [Reports] table.

Resource - Resource

The [ReportSecurity.Resource] field stores the resource ID when the [ReportSecurity.Type] field = 1 (Resource based).

Role - Role

The [ReportSecurity.Role] field stores the role or report group when the [ReportSecurity.Type] field = 0 (Role based).

RoleLevel - Role level

The [ReportSecurity.RoleLevel] field stores the role level the resource has rights on in the data of the report.
The [ReportSecurity.RoleLevel] field should not be filled when the [ReportSecurity.Type] field = 0 (Role based).

SecurityLevel - Security level

The [ReportSecurity.SecurityLevel] field stores the security level of the security rule.

StartDate - Start date

The [ReportSecurity.StartDate] field stores the start date for which the users may view the report.

Syscreated - Created date and time

The [ReportSecurity.Syscreated] field stores the date and time the security rule has been created.

Syscreator - Creator

The [ReportSecurity.Syscreator] field stores the ID of the resource who has created the security rule. The [ReportSecurity.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [ReportSecurity.Sysmodified] field stores the date and time that the security rule was last modified. Initially, this field contains the creation date that is stored in the [ReportSecurity.Syscreated] field.

Sysmodifier - Modifier

The [ReportSecurity.Sysmodified] stores the ID of the resource who last modified the security rule. Initially, this field contains the creator as is stored in the [ReportSecurity.Syscreator] field. The [ReportSecurity.Sysmodifier] field refers to the [Humres.Res_ID] field.

Type - Type

The [ReportSecurity.Type] field stores the type of the security rule. The [ReportSecurity.Type] field can store one of the following values:

| Value | Description |
|-------|----------------|
| 0 | Role based |
| 1 | Resource based |
| 2 | Project based |



Chapter 2 | FunctionGroups – Function Groups

2. FunctionGroups – Function Groups

2.1 General description

The [FunctionGroups] table stores the header information of the function groups of Exact Business Analytics module in Exact Synergy Enterprise.

2.2 FunctionGroups field details

Description - Description

The [FunctionGroups.Description] field stores the description of the function group.

ID - ID

The [FunctionGroups.ID] field contains the system generated database record identification number. This field is not functionally used.

Syscreated - Created date and time

The [FunctionGroups.Syscreated] field stores the date and time that the function group has been created.

Syscreator - Creator

The [FunctionGroups.Syscreator] field stores the resource who created the function group. The [FunctionGroups.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [FunctionGroups.Sysmodified] field stores the date and time that the function group was last modified. Initially, the [FunctionGroups.Sysmodified] field contains the creation date as is stored in the [FunctionGroups.Syscreated] field.

Sysmodifier - Modifier

The [FunctionGroups.Sysmodifier] field stores the resource who last modified the function group. Initially, the [FunctionGroups.Sysmodifier] field contains the creator as is stored in the [FunctionGroups.Syscreator] field. The [FunctionGroups.Sysmodifier] field refers to the [Humres.Res_ID] field.

TermID - Term ID

The [FunctionGroups.TermID] field stores the term ID of the description of the function group.



Chapter 3 | FunctionGroupDetails – Function Group Details

3. FunctionGroupDetails – Function Group Details

3.1 General description

The [FunctionGroupDetails] table stores the detail information of the function groups of Exact Business Analytics module in Exact Synergy Enterprise.

3.2 FunctionGroupDetails field details

DimensionCategoryID - Dimension category

The [FunctionGroupDetails.DimensionCategoryID] field stores the role level of the function group.

The [FunctionGroupDetails.DimensionCategoryID] field refers to the [DimensionCategories.ID].

DimensionID - Dimension

The [FunctionGroupDetails.DimensionID] field stores the ID of the dimension. The [FunctionGroupDetails.DimensionID] field refers to the [Dimension_Master.Dimension_ID] field. The [Dimension_Master] table stores the information relating to dimensions that contains mapping to a column in a corresponding table. This mapping is to help Exact Business Analytics module to get information from the correct table and column.

FunctionGroupID - Function group

The [FunctionGroupDetails.FunctionGroupID] field stores the ID of the function group. The [FunctionGroupDetails.FunctionGroupID] field refers to the [FunctionGroups.ID] field.

ID - ID

The [FunctionGroupDetails.ID] field contains the system generated database record identification number. This field is not functionally used.

Syscreated - Created date and time

The [FunctionGroupDetails.Syscreated] field stores the date and time that the details of the function group has been created.

Syscreator - Creator

The [FunctionGroupDetails.Syscreator] field stores the resource who created the details of the function group.

The [FunctionGroupDetails.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [FunctionGroupDetails.Sysmodified] field stores the date and time that the details of the function group was last modified. Initially, the [FunctionGroupDetails.Sysmodified] field contains the creation date as is stored in the [FunctionGroupDetails.Syscreated] field.

Sysmodifier - Modifier

The [FunctionGroupDetails.Sysmodifier] field stores the resource who last modified the details of the function group. Initially, the [FunctionGroupDetails.Sysmodifier] field contains the creator as is stored in the [FunctionGroupDetails.Syscreator] field. The [FunctionGroupDetails.Sysmodifier] field refers to the [Humres.Res_ID] field.



Chapter 4 | RoleFunctionGroups – Role Function Groups

4. RoleFunctionGroups – Role Function Groups

4.1 General description

The [RoleFunctionGroups] table stores the roles linked to the function groups of the Exact Business Analytics module in Exact Synergy Enterprise.

4.2 RoleFunctionGroups field details

FunctionGroupID - Function group

The [RoleFunctionGroups.FunctionGroupID] field stores the ID of the function group for which the role is linked to. The [RoleFunctionGroups.FunctionGroupID] field refers to the [FunctionGroups.ID] field.

ID - ID

The [RoleFunctionGroups.ID] field contains the system generated database record identification number. This field is not functionally used.

RoleID - Role

The [RoleFunctionGroups.RoleID] field stores ID of the role linked to the function group. The [RoleFunctionGroups.RoleID] field refers to the [HRRoleDefs.ID] field.

Syscreated - Created date and time

The [RoleFunctionGroups.Syscreated] field stores the date and time that the role has been created.

Syscreator - Creator

The [RoleFunctionGroups.Syscreator] field stores the resource who created the role. The [FunctionGroups.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [RoleFunctionGroups.Sysmodified] field stores the date and time that the role was last modified. Initially, the [FunctionGroups.Sysmodified] field contains the creation date as is stored in the [FunctionGroups.Syscreated] field.

Sysmodifier - Modifier

The [RoleFunctionGroups.Sysmodifier] field stores the resource who last modified the role. Initially, the [FunctionGroups.Sysmodifier] field contains the creator as is stored in the [FunctionGroups.Syscreator] field. The [FunctionGroups.Sysmodifier] field refers to the [Humres.Res_ID] field.



Chapter 5 | DimensionCategories – Dimension Categories

5. DimensionCategories – Dimension Categories

5.1 General description

The [DimensionCategories] table stores the default levels of rights that can be assigned to a role in Exact Business Analytics module in Exact Synergy Enterprise. The levels are Cost Center, Cost Center Group, Division, and Group.

5.2 DimensionCategories field details

Description - Description

The [DimensionCategories.Description] field stores the description of the level.

ID - ID

The [DimensionCategories.ID] field contains the system generated database record identification number. This field is not functionally used.

RoleLevel - Level

The [DimensionCategories.RoleLevel] field stores the ID of the level. The [DimensionCategories.RoleLevel] field refers to the [HRRoleLevels.ID] field.

Syscreated - Created date and time

The [DimensionCategories.Syscreated] field stores the date and time that the level has been created.

Syscreator - Creator

The [DimensionCategories.Syscreator] field stores the resource who created the level. The [DimensionCategories.Syscreator] field refers to the [Humres.Res_ID] field.

Sysmodified - Modified date and time

The [DimensionCategories.Sysmodified] field stores the date and time that the level was last modified. Initially, the [DimensionCategories.Sysmodified] field contains the creation date as is stored in the [DimensionCategories.Syscreated] field.

Sysmodifier - Modifier

The [DimensionCategories.Sysmodifier] field stores the resource who last modified the level. Initially, the [DimensionCategories.Sysmodifier] field contains the creator as is stored in the [DimensionCategories.Syscreator] field. The [DimensionCategories.Sysmodifier] field refers to the [Humres.Res_ID] field.

TermID - Term ID

The [DimensionCategories.TermID] field stores the term ID of the description of the level.



Chapter 6 | Field properties

6. 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.

6.1 Reporting tables

6.1.1 ReportCategories

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|-------------|------------------------|------------------|------------------|--------|----------|---------|-------------|
| Description | Description | | varchar | 60 | No | | |
| Division | Division | | smallint | | Yes | | |
| ID | ID | GuidRelations.ID | uniqueidentifier | | No | | |
| Parent | Parent | | uniqueidentifier | | Yes | | |
| Product | Product | | int | | Yes | | |
| syscreated | Created date and time | | datetime | | No | | (getdate()) |
| syscreator | Creator | humres.res_id | int | | No | | (0) |
| sysmodified | Modified date and time | | datetime | | No | | (getdate()) |
| sysmodifier | Modifier | humres.res_id | int | | No | | (0) |

6.1.2 Reports

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|---------------------|------------------------|---------------|------------------|--------|----------|---------|-----------|
| BIReportID | BI report ID | | int | | Yes | | |
| BIScheduleProcessID | BI schedule process ID | | int | | Yes | | |
| Category | Category | | uniqueidentifier | | Yes | | |
| Content | Content | | image | | Yes | | |
| ContentName | Content name | | varchar | 128 | No | | |
| Description | Description | | varchar | 255 | No | | |
| Division | Division | | smallint | | Yes | | |
| HID | HID | | int | | No | | |
| ID | ID | | uniqueidentifier | | No | | |
| IsSubReport | Sub report | | bit | | No | | (0) |
| Name | Name | | varchar | 60 | No | | |
| Parameters | Parameters | | text | | Yes | | |
| ParentID | Parent ID | | uniqueidentifier | | Yes | | |
| ReportSource | Report source | | smallint | | No | | |
| Status | Status | | int | | No | | (0) |
| syscreated | Created date and time | | datetime | | No | | getdate() |
| syscreator | Creator | humres.res_id | int | | No | | (0) |
| sysmodified | Modified date and time | | datetime | | No | | getdate() |
| sysmodifier | Modifier | humres.res_id | int | | No | | (0) |

6.1.3 ReportSecurity

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|---------------|------------------------|---------------|------------------|--------|----------|---------|-----------|
| Division | Division | | smallint | | Yes | | |
| EndDate | End date | | datetime | | Yes | | |
| ID | ID | | uniqueidentifier | | No | | |
| Project | Project | | char | 20 | Yes | | |
| Report | Report | | uniqueidentifier | | No | | |
| Resource | Resource | | int | | Yes | | |
| Role | Role | | int | | Yes | | |
| RoleLevel | Role level | | int | | Yes | | |
| SecurityLevel | Security level | | int | | No | | (10) |
| StartDate | Start date | | datetime | | Yes | | |
| syscreated | Created date and time | | datetime | | No | | getdate() |
| syscreator | Creator | humres.res_id | int | | No | | (0) |
| sysmodified | Modified date and time | | datetime | | No | | getdate() |
| sysmodifier | Modifier | humres.res_id | int | | No | | (0) |
| Type | Type | | int | | No | | (0) |

6.2 FunctionGroups

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|-------------|------------------------|---------------|-----------|--------|----------|---------|-------------|
| Description | Description | | varchar | 60 | No | | |
| ID | ID | | int | | No | | |
| syscreated | Created date and time | | datetime | | No | | (getdate()) |
| syscreator | Creator | humres.res_id | int | | No | | ((0)) |
| sysmodified | Modified date and time | | datetime | | No | | (getdate()) |
| sysmodifier | Modifier | humres.res_id | int | | No | | ((0)) |
| TermID | Term ID | | int | | No | | |

6.3 FunctionGroupDetails

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|---------------------|------------------------|-------------------------------|-----------|--------|----------|---------|-------------|
| DimensionCategoryID | Dimension category | DimensionCategories.ID | int | | No | | |
| DimensionID | Dimension | Dimension_Master.Dimension_ID | varchar | 30 | No | | |
| FunctionGroupID | Function group | FunctionGroups.ID | int | | No | | |
| ID | ID | | int | | No | | |
| syscreated | Created date and time | | datetime | | No | | (getdate()) |
| syscreator | Creator | humres.res_id | int | | No | | ((0)) |
| sysmodified | Modified date and time | | datetime | | No | | (getdate()) |
| sysmodifier | Modifier | humres.res_id | int | | No | | ((|

6.4 RoleFunctionGroups

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|-----------------|------------------------|-------------------|-----------|--------|----------|---------|-------------|
| FunctionGroupID | Function group | FunctionGroups.ID | int | | No | | |
| ID | ID | | int | | No | | |
| RoleID | Role | HRRoleDefs.ID | int | | No | | |
| syscreated | Created date and time | | datetime | | No | | (getdate()) |
| syscreator | Creator | humres.res_id | int | | No | | ((0)) |
| sysmodified | Modified date and time | | datetime | | No | | (getdate()) |
| sysmodifier | Modifier | humres.res_id | int | | No | | ((0)) |

6.5 DimensionCategories

| Field name | Description | Reference | Data type | Length | Nullable | Term ID | Default |
|-------------|------------------------|-----------------|-----------|--------|----------|---------|-------------|
| Description | Description | | varchar | 60 | No | | |
| ID | ID | | int | | No | | |
| RoleLevel | Level | HRRoleLevels.ID | int | | No | | |
| syscreated | Created date and time | | datetime | | No | | (getdate()) |
| syscreator | Creator | humres.res_id | int | | No | | ((0)) |
| sysmodified | Modified date and time | | datetime | | No | | (getdate()) |
| sysmodifier | Modifier | humres.res_id | int | | No | | ((0)) |
| TermID | Term ID | | int | | No | | |



Chapter 7 | Sample SQL queries

7. Sample SQL queries

This section will list some SQL queries for retrieving data from the EBA 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.

7.1 Reporting tables

1. Query to retrieve the Tree Data and populate into Tree view.

```
SELECT ReportCategories.id, ReportCategories.Description, ReportCategories.Parent, (SELECT COUNT(*) FROM
ReportCategories c WHERE c.Parent = ReportCategories.ID)
FROM ReportCategories
LEFT OUTER JOIN GuidRelations ON GuidRelations.ID = ReportCategories.ID
WHERE GuidRelations.Type=5
AND GuidRelations.Parent IN (SELECT ID FROM ReportCategories WHERE Parent IS NULL)
ORDER BY GuidRelations.Level, ReportCategories.Description DESC
```

2. Query to retrieve the EBA reports.

```
SELECT Reports.Name, Reports.Description
FROM Reports
WHERE Reports.ReportSource = 1
```

7.2 *FunctionGroups*

1. Query to retrieve all function groups sort by their IDs.

```
SELECT FunctionGroups.Description  
FROM FunctionGroups  
ORDER BY FunctionGroups.ID
```

7.3 *FunctionGroupDetails*

1. Query to retrieve dimension based on function group 1, CRM, and role level 5, Cost Center.

```
SELECT FunctionGroupDetails.DimensionID  
FROM FunctionGroupDetails  
WHERE FunctionGroupDetails.FunctionGroupID=1  
AND FunctionGroupDetails.DimensionCategoryID IN  
(SELECT TOP 1 DimensionCategories.ID  
FROM DimensionCategories  
WHERE DimensionCategories.RoleLevel=5)
```

7.4 RoleFunctionGroups

1. Query to retrieve definitions where the user 187461 is a role in [RoleFunctionGroups].

```
SELECT RoleFunctionGroups.RoleID, RoleFunctionGroups.FunctionGroupID, HRRoles.RoleLevel
FROM RoleFunctionGroups
INNER JOIN HRRoles ON HRRoles.RoleID = RoleFunctionGroups.RoleID
WHERE RoleFunctionGroups.RoleID IN
(SELECT HRRoles.RoleID
FROM HRRoles
Where HRRoles.EmpID = 187461)
AND HRRoles.EmpID= 187461
```

2. Query to retrieve function group ID based on role ID 1 and function rights 10, Maintain corporate G/L.

```
SELECT TOP 1 RoleFunctionGroups.FunctionGroupID
FROM RoleFunctionGroups
INNER JOIN BacoFunctions ON BacoFunctions.Product = RoleFunctionGroups.FunctionGroupID
WHERE RoleFunctionGroups.RoleID = 1
AND BacoFunctions.ID = 10
```

7.5 DimensionCategories

1. Query to retrieve the default levels of rights.

```
SELECT DimensionCategories.Description
FROM DimensionCategories
```



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