


















Leo Database
Data Dictionary

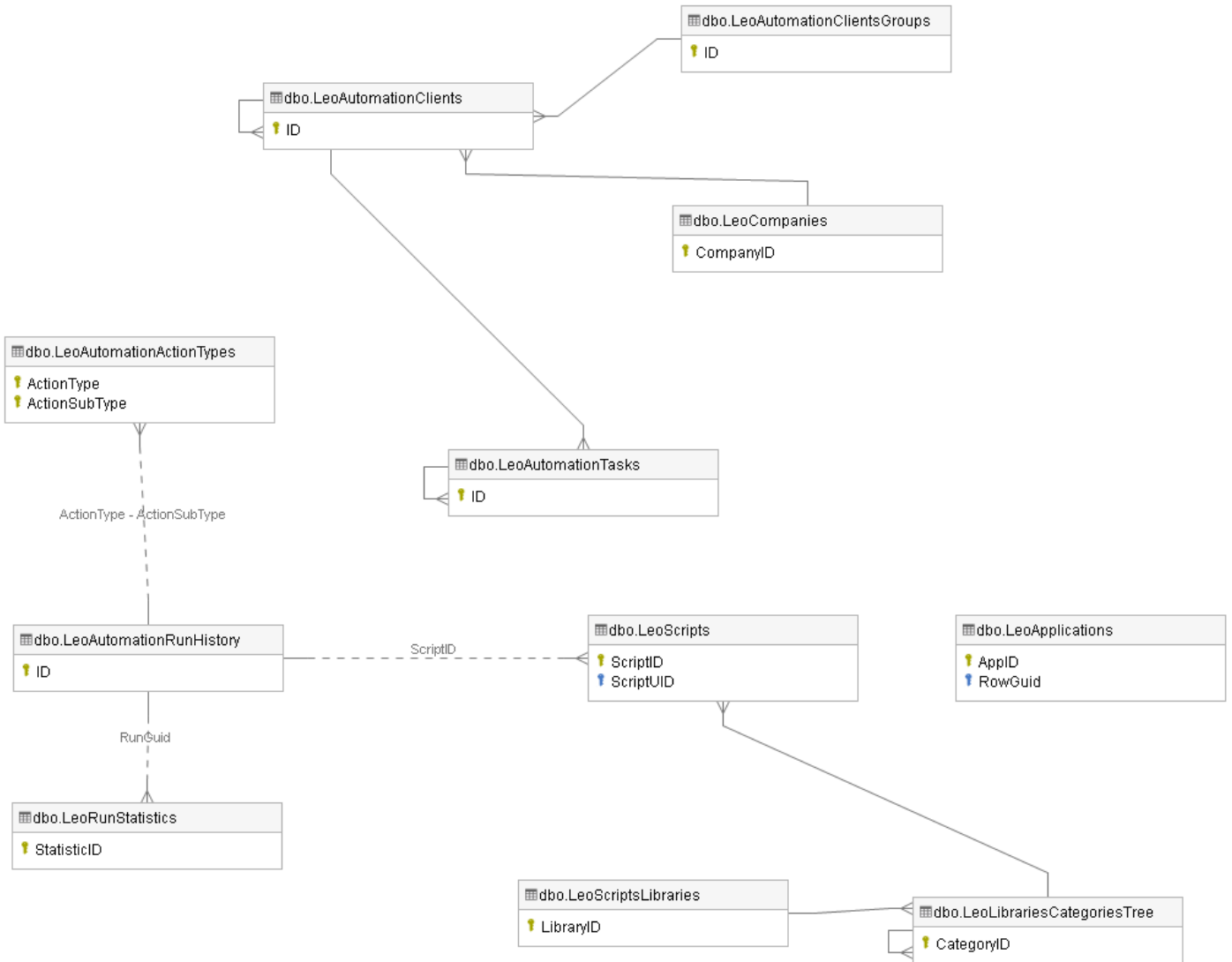
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Legend

-  Primary key
-  Primary key disabled
-  User-defined primary key
-  Unique key
-  Unique key disabled
-  User-defined unique key
-  Active trigger
-  Disabled trigger
-  Primary key relation
-  User-defined primary key relation
-  Foreign key relation
-  User-defined foreign key relation
-  Input
-  Output
-  Input/Output

1. Schema





2. Entities

2.1. Tables



2.1.1. Table: dbo.LeoApplications

Stores applications that can be recorded by Leo studio


Columns

	Name	Data type	Description / Attributes
	AppID	bigint	ID of the application Identity / Auto increment
	AppName	nvarchar(150)	Application name
	AppTechData	varbinary(MAX)	Application identification metadata Nullable
	Type	bigint	Optional values: 0 - Regular 1 - Emulator Default: 1
	CreateDate	datetime	Nullable Default: getdate()
	CreateUser	nvarchar(150)	Nullable
	UpdateDate	datetime	Nullable
	UpdateUser	nvarchar(150)	Nullable
	RowGuid	uniqueidentifier	Application unique identifier Default: newid()
	ThesaurusFile	varbinary(MAX)	Nullable
	AppInstallData	varbinary(MAX)	Nullable

Unique keys

	Columns	Name / Description
	AppID	PK_LeoApplications_AppID2
	RowGuid	UQ_LeoApplications_rowguid2



Triggers

	Name	When	Description
	Trg_LeoApplications_UpdateDate	After Update	


2.1.2. Table: dbo.LeoAutomationActionTypes

Stores mapping values for LeoAutomationRunHistory table


Columns

	Name	Data type	Description / Attributes
	ActionType	bigint	Optional values: 0 - Wizard 1 - Task 2 - Robot References: dbo.LeoAutomationRunHistory
	ActionTypeDesc	nvarchar(20)	Description for action type
	ActionSubType	bigint	Values according to ActionType References: dbo.LeoAutomationRunHistory
	ActionSubTypeDesc	nvarchar(50)	Description for sub action type Nullable

Links to

	Table	Join	Title / Name / Description
	dbo.LeoAutomationRunHistory	dbo.LeoAutomationActionTypes.ActionType = dbo.LeoAutomationRunHistory.ActionType, dbo.LeoAutomationActionTypes.ActionSubType = dbo.LeoAutomationRunHistory.ActionSubType	ActionType - ActionSubType ActionType

Unique keys

	Columns	Name / Description
	ActionType, ActionSubType	PK_LeoAutomationActionTypes


2.1.3. Table: dbo.LeoAutomationClients

Stores data for connected robots

Columns

	Name	Data type	Description / Attributes
	ID	bigint	Robot ID Identity / Auto increment References: dbo.LeoAutomationClients
	MachineName	nvarchar(255)	OS Machine name
	FriendlyName	nvarchar(255)	Macine friendly name Nullable
	UserName	nvarchar(255)	OS user name
	UserID	bigint	Refernce to Leo user Nullable
	CompanyID	bigint	Refernce to Company References: dbo.LeoCompanies
	CreateDate	datetime	
	IsDeleted	bit	Optional values: 0 - Active 1 - Deleted Nullable
	DeleteDate	datetime	Date of row deletion Nullable
	DeleteUser	nvarchar(255)	Nullable
	State	bigint	Optional values: ActiveIdle = 0 ActivePlaying = 1 Paused = 2 Stopping = 3 Stopped = 4 Ghost = 5 Default: 0
	LastKeepAlive	datetime	Nullable
	StopOnWizardError	bit	Default: 0
	Name	Data type	Description / Attributes
	GroupID	int	Refernce to robot group Nullable References: dbo.LeoAutomationClientsGroups
	OSVersion	nvarchar(255)	Windows version name Nullable
	OSDomain	nvarchar(150)	Domain name Nullable
	LogonTime	datetime	Nullable
	UnlockMode	int	Default: 0
	DoAutoLogin	bit	Default: 0

Links to

	Table	Join	Title / Name / Description
	dbo.LeoAutomationClients	dbo.LeoAutomationClients.ID = dbo.LeoAutomationClients.ID	FK_LeoAutomationClients_LeoAutomationClients

➤	dbo.LeoAutomationClientsGroups	dbo.LeoAutomationClients.GroupID = dbo.LeoAutomationClientsGroups.ID	FK_LeoAutomationClients_LeoAutomationClientsGroups
➤	dbo.LeoCompanies	dbo.LeoAutomationClients.CompanyID = dbo.LeoCompanies.CompanyID	FK_LeoAutomationClients_LeoCompanies

Linked from

	Table	Join	Title / Name / Description
←	dbo.LeoAutomationClients	dbo.LeoAutomationClients.ID = dbo.LeoAutomationClients.ID	FK_LeoAutomationClients_LeoAutomationClients
←	dbo.LeoAutomationTasks	dbo.LeoAutomationClients.ID = dbo.LeoAutomationTasks.ClientID	FK_LeoAutomationTasks_LeoAutomationClients


Unique keys

	Columns	Name / Description
🔑	ID	PK_LeoAutomationClients


2.1.4. Table: dbo.LeoAutomationClientsGroups

Stores data for robot groups


Columns

	Name	Data type	Description / Attributes
	ID	int	ID of group Identity / Auto increment
	Name	nvarchar(255)	Group name
	Color	nvarchar(255)	Color of group (as displayed in Console) Nullable
	CompanyID	bigint	Reference to company Nullable

Linked from

	Table	Join	Title / Name / Description
	dbo.LeoAutomationClients	dbo.LeoAutomationClientsGroups.ID = dbo.LeoAutomationClients.GroupID	FK_LeoAutomationClients_LeoAutomationClientsGroups


Unique keys

	Columns	Name / Description
	ID	PK_LeoAutomationClientsGroups


2.1.5. Table: dbo.LeoAutomationRunHistory



Stores data for automated events

Columns

	Name	Data type	Description / Attributes
	ID	bigint	ID of each event Identity / Auto increment
	TaskID	bigint	Reference to task ID - Foreign key to LeoAutomationTasks table Nullable
	ClientID	bigint	Reference to robot id Nullable
	ActionType	bigint	Optional values: 0 = Wizard 1 = Task 2 = Client
	ActionSubType	bigint	According to action type there are optional values for ActionSubType
	Details	nvarchar(255)	Event details
	Version	nvarchar(255)	Application build version
	Username	nvarchar(255)	Leo user name
	Time	datetime	Event start time
	TriggerID	bigint	Id of trigger source Nullable
	VersionID	bigint	Task version id Nullable
	OccurenceID	bigint	Task occurrence id Nullable
	RepeatNumber	bigint	Repeat number of each run Nullable
	ScriptID	bigint	Wizard id in case of ActionType = Wizard Nullable
	RunGuid	uniqueidentifier	Run Guid of wizard in case of ActionType = Wizard Nullable
	EndTime	datetime	Event end time Nullable

Linked from

	Table	Join	Title / Name / Description
	dbo.LeoAutomationActionTypes	dbo.LeoAutomationRunHistory.ActionType = dbo.LeoAutomationActionTypes.ActionType, dbo.LeoAutomationRunHistory.ActionSubType = dbo.LeoAutomationActionTypes.ActionSubType	ActionType - ActionSubType ActionType

 dbo.LeoRunStatistics	dbo.LeoAutomationRunHistory.RunGuid id = dbo.LeoRunStatistics.RunGuid	RunGuid RunGuid
 dbo.LeoScripts	dbo.LeoAutomationRunHistory.ScriptID D = dbo.LeoScripts.ScriptID	ScriptID ScriptID


Unique keys

	Columns	Name / Description
 ID		PK_LeoAutomationRunHistory



2.1.6. Table: dbo.LeoAutomationTasks

Stores data for automated tasks

Columns

	Name	Data type	Description / Attributes
	ID	bigint	ID of the task Identity / Auto increment References: dbo.LeoAutomationTasks
	ClientID	bigint	ID of the robot References: dbo.LeoAutomationClients
	Name	nvarchar(255)	Task name
	CreationDate	datetime	
	CreationUser	nvarchar(255)	
	LastUpdateDate	datetime	Nullable
	LastUpdateUser	nvarchar(255)	Nullable
	IsDeleted	bit	Optional values: 0 - Active 1 - Deleted
	DeleteDate	datetime	Nullable
	DeleteUser	nvarchar(255)	Nullable
	StatusCode	int	Optional values: Started = 0 Stopped = 1 Ended = 2 Delayed = 3 Inactive = 4 Skipped = 5 Queued = 6 Faulty = 7 Paused = 8 Resumed = 9 Scheduled = 10 Nullable Default: 6
	ErrorCode	int	Optional values: OK = 0 General = 1 Login = 2 Expired = 3 FailedToCreateTask = 4 WizardNotFound = 5 FailedToGetStatus = 6 TaskNotFound = 7 InputValidationError = 8 GroupNotFound = 9 MachineNotFound = 10 Nullable Default: 0
	State	varbinary(MAX)	Nullable
	Name	Data type	Description / Attributes
	SourceType	int	Optional values: Manual = 0 Triggered = 1 API = 2 AdvancedCommand = 3 Nullable
	SourceID	bigint	ID of the task source Nullable
	ExtraData	nvarchar(MAX)	Nullable

Links to

	Table	Join	Title / Name / Description
	dbo.LeoAutomationClients	dbo.LeoAutomationTasks.ClientID = dbo.LeoAutomationClients.ID	FK_LeoAutomationTasks_LeoAutomationClients
	dbo.LeoAutomationTasks	dbo.LeoAutomationTasks.ID = dbo.LeoAutomationTasks.ID	FK_LeoAutomationTasks_LeoAutomationTasks

Linked from

	Table	Join	Title / Name / Description
←	dbo.LeoAutomationTasks	dbo.LeoAutomationTasks.ID = dbo.LeoAutomationTasks.ID	FK_LeoAutomationTasks_LeoAutomationTasks

Unique keys

	Columns	Name / Description
🔑	ID	PK_LeoAutomationTasks

2.1.7. Table: dbo.LeoCompanies

Stores data of companies

Columns

	Name	Data type	Description / Attributes
🔑	CompanyID	bigint	ID of company Identity / Auto increment
	CompanyName	nvarchar(150)	Company name
	POC Email	nvarchar(150)	Nullable
	Company Code	int	Nullable
	IsAllowSaveUsersName	bit	Nullable
	DeafulForNewUser	bit	When performing replication from active directory relate new users to default company Default: 0
	AllowImpersonation	bit	Default: 0
	GeneralPermissionsMode	bigint	Default: 1
	BrandingImage	varbinary(MAX)	Image for company Nullable
	WebCatalogURL	nvarchar(150)	Nullable
	IsWebCatalogActive	bit	

Linked from

	Table	Join	Title / Name / Description
←	dbo.LeoAutomationClients	dbo.LeoCompanies.CompanyID = dbo.LeoAutomationClients.CompanyID	FK_LeoAutomationClients_LeoCompanies


Unique keys

	Columns	Name / Description
🔑	CompanyID	PK_LeoCompanies_CompanyID

2.1.8. Table: dbo.LeoLibrariesCategoriesTree

Stores catalog categories and related libraries

Columns

	Name	Data type	Description / Attributes
	CategoryID	bigint	ID of the category Identity / Auto increment
	LibraryID	bigint	ID of the library Nullable References: dbo.LeoScriptsLibraries
	Name	nvarchar(150)	Category name Nullable
	Description	nvarchar(500)	Custom field for category description Nullable
	FullPathIDs	nvarchar(150)	Describe the categories path by its IDs Nullable
	FullPathNames	nvarchar(4000)	Describe the categories path by its names delimited by '\' Nullable
	ParentCategoryID	bigint	Parent CategoryID Nullable References: dbo.LeoLibrariesCategoriesTree
	CategoryOrder	int	Category order Nullable
	CreateDate	datetime	Nullable Default: getdate()
	CreateUser	nvarchar(150)	Nullable
	UpdateDate	datetime	Nullable
	UpdateUser	nvarchar(150)	Nullable
	Comments	nvarchar(500)	Custom field for category comments Nullable
	CategoryType	bigint	Optional values: 0 - Wizard 1 - Sensor -1 - None Nullable Default: 0

Links to

	Table	Join	Title / Name / Description
	dbo.LeoLibrariesCategoriesTree	dbo.LeoLibrariesCategoriesTree.Paren tCategoryID = dbo.LeoLibrariesCategoriesTree.Categ oryID	FK_LeoLibrariesCategoriesTree_LeoLibrariesCategoriesTree
	dbo.LeoScriptsLibraries	dbo.LeoLibrariesCategoriesTree.Librar yID = dbo.LeoScriptsLibraries.LibraryID	FK_LeoLibrariesCategoriesTree_LeoScriptsLibraries

Linked from

	Table	Join	Title / Name / Description
--	-------	------	----------------------------

←	dbo.LeoLibrariesCategoriesTree	dbo.LeoLibrariesCategoriesTree.Cate goryID = dbo.LeoLibrariesCategoriesTree.Paren tCategoryID	FK_LeoLibrariesCategoriesTree_LeoLibrariesCategoriesTree
←	dbo.LeoScripts	dbo.LeoLibrariesCategoriesTree.Cate goryID = dbo.LeoScripts.CategoryID	CategoryID FK_LeoScripts_LeoLibrariesCategoriesTree

Unique keys

	Columns	Name / Description
🔑	CategoryID	PK_LeoLibrariesCategoriesTree_CategoryID


Triggers

	Name	When	Description
⚡	Trg_LeoLibrariesCategoriesTree_Aft erDelete	After Delete	
⚡	Trg_LeoLibrariesCategoriesTree_Aft erInsert	After Insert	
⚡	Trg_LeoLibrariesCategoriesTree_Aft erUpdated	After Update	
⚡	Trg_LeoLibrariesCategoriesTree_Up dateDate	After Update	

2.1.9. Table: dbo.LeoRunStatistics

Stores data for wizard runs


Columns

	Name	Data type	Description / Attributes
	StatisticID	bigint	Run statistics row Identity / Auto increment
	Time	datetime	Time of each run
	UserID	bigint	Reference to Leo user Nullable
	CompanyID	bigint	Reference to company Nullable
	LibraryID	bigint	Reference to library Nullable


	Name	Data type	Description / Attributes
	ScriptID	bigint	Reference to wizard Nullable
	ProductType	bigint	Optional values: User Login Audit = 1 User Management Audit = 2 Nullable
	ReportType	bigint	Optional values: ScriptRun = 1, QueryNotFound = 3, RunFailed = 2, SuccessfulRun = 4, RunStoppedByUser = 5, EfficiencySurvey = 6, QueryWithNoResults = 7, ScriptRunDuration = 8, ScriptSearchDuration = 9, AutomaticUpdate = 10, Login = 11, Registration = 12, RunFormClicks = 13, MenuClick = 14, OpenCatalog = 15, ScriptRunFromCatalog = 16, FloatingButton = 17, ScriptApplicationNotFound = 18, ActiveApplicationOnSearch = 19, ShowMoreSearchResults = 20, ChosenSearchResultLocation = 21, LoadingTime = 22, // Not in use DownloadTime = 23, StepAverageTime = 24, StepMaxTime = 25, MovieNoFlashPlayer = 26, RightClickMenu = 27, Stars = 28, GetPreviewImages = 29, SearchMaxResposeDuration = 30, HideNotifications = 31, FailedLogin = 32, UserChangePassword = 33, ResetPassword = 34, DeleteUser = 35, CreateUser = 36, UserDetailsUpdated = 37, UserUnlocked = 38, LoggedinUser = 39, FirstLogin = 40, MachineInformation = 41, WebWidgetLoaded = 42, RegisterNewUser = 43 Nullable
	ReportSubType	bigint	Optional values: Success = 0 Failure = 1 WrongValidationCode = 2 WrongValidationEmail = 3 UserExists = 4 FraudSuspicion = 5 UserCreated = 6 LibraryCreated = 7 Nullable
	RunMode	bigint	Optional values: Human = 0 Robotic = 1 Nullable
	Source	bigint	Nullable
	LastStep	nvarchar(200)	Nullable

RunSteps	bigint	Nullable
Duration	bigint	Duration in seconds Nullable
NetoDuration	bigint	Net duration in seconds Nullable
ExtraData	nvarchar(300)	Extra data Nullable
MachineID	nvarchar(100)	Unique machine id Nullable
CustomData1	nvarchar(300)	Data from Set BI Field 1 Advanced Command Nullable
CustomData2	nvarchar(300)	Data from Set BI Field 2 Advanced Command Nullable
CustomData3	nvarchar(300)	Data from Set BI Field 3 Advanced Command Nullable
CustomData4	nvarchar(300)	Data from Set BI Field 4 Advanced Command Nullable
CustomData5	nvarchar(300)	Data from Set BI Field 5 Advanced Command Nullable
RunGuid	uniqueidentifier	Unique identifier for each wizard run Nullable References: dbo.LeoAutomationRunHistory
MachineName	nvarchar(500)	Robot OS machine name Nullable

Links to

	Table	Join	Title / Name / Description
	dbo.LeoAutomationRunHistory	dbo.LeoRunStatistics.RunGuid = dbo.LeoAutomationRunHistory.RunGuid	RunGuid RunGuid



Unique keys

	Columns	Name / Description
	StatisticID	PK_LeoRunStatistics

2.1.10. Table: dbo.LeoScripts



Stores wizards metadata

Columns



	Name	Data type	Description / Attributes
	ScriptID	bigint	ID of the wizard Identity / Auto increment References: dbo.LeoAutomationRunHistory
	CategoryID	bigint	Script category - Foreign key to LeoLibrariesCategoriesTree table References: dbo.LeoLibrariesCategoriesTree
	Title	nvarchar(150)	Name of the wizard Nullable
	Description	nvarchar(500)	Custom field to describe the wizard Nullable
	Keywords	nvarchar(500)	Custom data entered by content editor used for search bar Nullable
	ScriptStatus	int	Wizard status containing the optional values: Draft = 0, PendingApproval = 2, Published = 1, Inactive = 3, Faulty = 4 Nullable
	RelatedAppIDs	nvarchar(150)	List of all related applications by AppID delimited by ';' Nullable
	Comments	nvarchar(MAX)	Custom field for comments Nullable
	ShowConfirmationMessage	bit	Nullable
	FaultDescription	nvarchar(500)	Nullable
	CreateDate	datetime	Wizard creation date Nullable Default: getdate()
	CreateUser	nvarchar(150)	User create wizard Nullable
	UpdateDate	datetime	Wizard update date Nullable
	UpdateUser	nvarchar(150)	Last user updated wizard Nullable
	ScriptOrder	bigint	Nullable
	SupportedPlayModes	int	Nullable Default: 0
	Name	Data type	Description / Attributes
	GuideMeEnforce	bit	Nullable Default: 0
	DoneBarVisibility	int	Default: 0
	UserFeedbackVisibility	int	Default: 0
	ScriptUID	nvarchar(50)	Unique script id (GUID) Nullable

MobileCompatibility	bit	
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Links to

	Table	Join	Title / Name / Description
	dbo.LeoAutomationRunHistory	dbo.LeoScripts.ScriptID = dbo.LeoAutomationRunHistory.ScriptID	ScriptID ScriptID
	dbo.LeoLibrariesCategoriesTree	dbo.LeoScripts.CategoryID = dbo.LeoLibrariesCategoriesTree.CategoryID	CategoryID FK_LeoScripts_LeoLibrariesCategoriesTree

Unique keys

	Columns	Name / Description
	ScriptID	PK_LeoScripts_ScriptID
	ScriptUID, ScriptID	IX_LeoScripts_UID


Triggers

	Name	When	Description
	Trg_LeoScripts_UpdateDate	After Update	


2.1.11. Table: dbo.LeoScriptsLibraries

Stores wizards/sensors catalog libraries


Columns

	Name	Data type	Description / Attributes
	LibraryID	bigint	ID of the library Identity / Auto increment
	Name	nvarchar(150)	Library name Nullable
	Description	nvarchar(500)	Description of library Nullable
	Type	bigint	Default: 1
	CreateDate	datetime	Nullable Default: getdate()
	CreateUser	nvarchar(150)	Nullable
	UpdateDate	datetime	Nullable
	UpdateUser	nvarchar(150)	Nullable
	Name	Data type	Description / Attributes
	LibraryStatus	int	Optional values: 0 - Inactive 1 - Active Nullable
	Comments	nvarchar(500)	Custom field for comments Nullable
	MobileCompatibility	bit	


Linked from

	Table	Join	Title / Name / Description
	dbo.LeoLibrariesCategoriesTree	dbo.LeoScriptsLibraries.LibraryID = dbo.LeoLibrariesCategoriesTree.Librar yID	FK_LeoLibrariesCategoriesTree_LeoScriptsLibraries

Unique keys

	Columns	Name / Description
	LibraryID	PK_LeoScriptsLibraries_LibraryID

Triggers

	Name	When	Description
	Trg_LeoScriptsLibraries_UpdateDate	After Update	

3. Appendix

3.1 SQL Scripts

```
--List of all wizards
SELECT * FROM [dbo].LeoScripts
--List of all enabled applications
SELECT * FROM [dbo].LeoApplications
--List of all robots per company and group
SELECT * FROM [dbo].LeoAutomationClients
--Data of running wizards
SELECT * FROM [dbo].LeoRunStatistics

--Get all published wizards metadata
SELECT Libraries.[Name] AS LibraryName,
       Categories.[Name] AS CategoryName,
       Scripts.ScriptID AS WizardId,
       Scripts.Title AS WizardName,
       Scripts.UpdateUser,
       Scripts.ScriptStatus,
       Scripts.RelatedAppIDs,
       Scripts.Keywords
FROM [dbo].LeoScripts Scripts INNER JOIN
[dbo].LeoLibrariesCategoriesTree Categories ON
Scripts.CategoryID = Categories.CategoryID
INNER JOIN [dbo].LeoScriptsLibraries Libraries ON
Categories.LibraryID = Libraries.LibraryID
WHERE Scripts.ScriptStatus = 1 -- Published

--Get all running published wizards data
SELECT Scripts.* ,
       Robots.MachineName ,
       Robots.UserName ,
       AutomationRun.[Time] AS
WizardStartRunTime,
       AutomationRun.[EndTime] AS
WizardEndRunTime
FROM [dbo].[LeoRunStatistics] ScriptsRun INNER
JOIN [dbo].[LeoAutomationRunHistory] AutomationRun
ON ScriptsRun.RunGuid = AutomationRun.RunGuid
INNER JOIN [dbo].[LeoAutomationClients] Robots ON
AutomationRun.ClientID = Robots.ID
INNER JOIN
(
SELECT Libraries.[Name] AS LibraryName,
       Categories.[Name] AS CategoryName,
       Scripts.ScriptID AS WizardID,
       Scripts.Title AS WizardName,
       Scripts.UpdateUser,
       Scripts.ScriptStatus,
       Scripts.RelatedAppIDs,
       Scripts.Keywords
FROM [dbo].[LeoScripts] Scripts INNER JOIN
[dbo].[LeoLibrariesCategoriesTree] Categories ON
Scripts.CategoryID = Categories.CategoryID
INNER JOIN [dbo].[LeoScriptsLibraries] Libraries
ON Categories.LibraryID = Libraries.LibraryID
WHERE Scripts.ScriptStatus = 1 -- Published
) Scripts ON ScriptsRun.ScriptID =
Scripts.WizardID
```

```
WHERE AutomationRun.ActionType = 0 -- Wizard run
```

```
--List of all robots per company and group
```

```
SELECT Robots.ID ,  
        Robots.MachineName ,  
        Robots.UserName ,  
        RobotGroups.[ID] AS RobotGroupID ,  
        RobotGroups.[Name] AS RobotGroupName  
,  
        RobotGroups.[Color] AS  
RobotGroupColor,  
        Companies.CompanyName  
FROM [dbo].[LeoAutomationClients] Robots LEFT JOIN  
[dbo].[LeoAutomationClientsGroups] RobotGroups ON  
Robots.GroupID = RobotGroups.ID  
INNER JOIN [dbo].[LeoCompanies] Companies ON  
RobotGroups.CompanyID = Companies.CompanyID
```