Configuration Tables in the database and the Database Catalog

Orixa contains a set of mechanisms to allow the Developer to refer to its database schema structures. This is useful as it allows Orixa Systems to be self-describing.

It is important to emphasize that the contents of the Configuration and Catalog data-tables are highly critical to the operation of any Orixa App, and SQL targetting these tables should be written with care. It is NOT possible to update or change any of these system tables, but it is possible to use them to DELETE, DROP and ALTER parts of your App, so SQL statements should be drafted with due care.

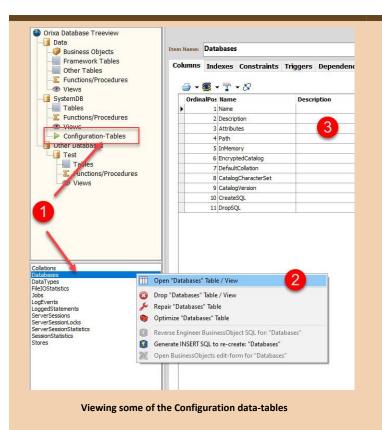
The Configuration Database

SELECT * FROM Infor ORDER BY Name	mation.Tables	Each Configuration table contains data relating to your individual App's systems. A full list of the Configuration tables is:	
<		DataTypes	
		Collations	
🖽 Result Set		Modules	
Name	Description	TextFilters	
Backups	NULL	WordGenerators	
Collations	NULL	Migrators	
DatabasePrivileges	NULL	MigratorParams	
Databases	NULL	MigratorTables	
DataTypes	NULL	MigratorViews	
FileIOStatistics	NULL	MigratorFunctions	
Files	NULL	MigratorProcedures	
Jobs	NULL	FileIOStatistics	
LogEvents	NULL	SessionStatistics	
LoggedStatements	NULL	LogEvents	
MigratorFunctions	NULL	LoggedStatements	
MigratorParams	NULL	Backups	
MigratorProcedures	NULL	ServerSessions	
Migrators	NULL	ServerSessionLocks	
MigratorTables	NULL	ServerSessionStatistics	
MigratorViews	NULL		
Modules	NULL	Updates	
Roles	NULL	Users	
ServerSessionLocks	NULL	Roles	
ServerSessions	NULL	UserRoles	
ServerSessionStatistics	NULL	Databases	
SessionStatistics	NULL	DatabasePrivileges	
StorePrivileges	NULL	Jobs	
Stores	NULL	Stores	
TextFilters	NULL	Files	
Updates	NULL	StorePrivileges	
UserRoles	NULL	Only a few of these are of regular use for a developer. For example	
Users	NULL		
WordGenerators	NULL	the "Users" configuration table can be queried to return a list of names of the Computers currently connected to the App.	

Configuration Database

A few of the configuration data-tables are made easily available via the Database Management Utility in your App.

- 1. Click on the "Configuration-Tables" item in the Database Treeview, and a list of tables will appear.
- 2. Select one table from the list and right-click to open a context menu from which you can Open the table to view it's records.



 Once any configuration data-table is selected all its details will display, including Columns, Indexes and Definition. Review the contents of these Columns to understand what the data-table is for and how you can use it.

The Database Catalog Schema

As well as the Configuration database, Your database also contains a set of Catalog meta-data tables.

Tables **TablePrivileges** TableColumns TemporaryTables Constraints ConstraintColumns Indexes IndexColumns Triggers TriggerColumns Views ViewPrivileges ViewColumns TemporaryViews Procedures ProcedurePrivileges **ProcedureParams** Functions FunctionPrivileges FunctionParams Dependencies SchemaObjects SchemaDifference

All of these tables can be accessed with SQL in the form:

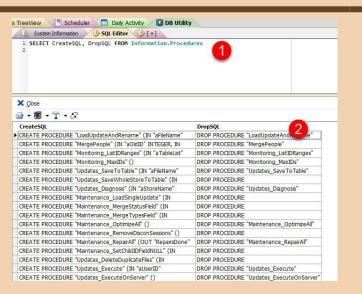
SELECT * FROM Information.[catalog-tablename]

If you know the names of columns in these tables you can use these in the SELECT statement just like any ordinary SQL Statement.

Examples of Catalog meta-data SQL Queries

System Information				
1 SELECT * FROM Information.TableColumns 2 WHERE TableName LIKE 'Subscription%' X Close → ● → ● → ↑ → ♀				
SubscriptionItems	Complete	Boolean		
SubscriptionItems	Current	Boolean		
SubscriptionItems	DateCreated	Timestamp		
SubscriptionItems	DateEnd	Date		
SubscriptionItems	DateStart	Date		
SubscriptionItems	Description	CLOB		
SubscriptionItems	ID	Integer		
SubscriptionItems	Quantity	Float		
SubscriptionItems	StatusID	Integer		
SubscriptionItems	SubscriptionItemsTypeID	Integer		
SubscriptionItems	SubscriptionsID	Integer		
SubscriptionItems	Value	Decimal		
Subscriptions	ContractsID	Integer		
Subscriptions	Current	Boolean		
Subscriptions	CustomersID	Integer		
Subscriptions	DateCreated	Timestamp		
Subscriptions	DateStart	Date		
Subscriptions	Description	CLOB		
Subscriptions	ID	Integer		
Subscriptions	Кеу	VarChar		
Subscriptions	ProductsID	Integer		
Subscriptions	SubscriptionsTypeID	Integer		
SubscriptionsLog	DateCreated	Timestamp		
SubscriptionsLog	ID	Integer		

SELECT * FROM Information.TableColumns



Information.Procedures catalog-table

- 1. A SQL Statement has been written using the Syntax Information.TableColumns. Note that a WHERE clause has also been added.
- 2. Data is returned that matches the criteria of the WHERE statement.

- 1. A SQL Statement querying the Procedures catalog meta-data table,
- 2. The data that has been returned contains the SQL needed to either CREATE or DROP each Procedure.