SQL Architecture

# Introduction

The SQL database for OpenStore uses a single SQL database table to store all data.

NBrightBuy

It has 2 linked tables that are used for indexing and langue, which helps OpenStore have quick database retrieval.

NBrightBuyIdx

NBrightBuyLang

These 2 tables are data duplicated of NBrightBuy, purely to help with database speed and are maintained by using triggers on the main data table (NBrightBuy).

The data structure works as a NoSQL database, but has the advantage that SQL can be used on the data. All data is saved in the SQL Server standard XML.

# The Table Structure

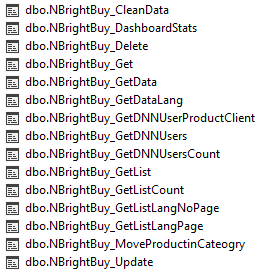
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| --- | --- | --- |
|  |  |  |

We will refer to these 3 tables as the OpenStore Database.

# Triggers

Trigger\_NBrightBuyIdx If the only trigger, which is linked to the NBrightBuy table. When the NBrightBuy table is updated, the trigger updates the NBrightBuyIdx and NBrightBuyLang tables, to keep them in-line with the NBrightBuy data table.

# Store Procedures



These Stored Procedures are used by OpenStore to maintain the NBrightBuy table and no other Stored Procedures are used in any database access.

NBrightBuy\_CleanData : Remove all data that is linked to a deleted module.

NBrightBuy\_DashboardStats : Get all data required to display the OpenStore Admin dashboard

NBrightBuy\_Delete : Delete records.

NBrightBuy\_Get : Get record by id. (WITH Language data)

NBrightBuy\_GetData : Get record by id (WITHOUT Language data)

# SQL examples

## Delete ALL products in DB

delete from NBrightBuy where typecode = 'PRD'

delete from NBrightBuy where typecode = 'PRDLANG'

delete from NBrightBuy where typecode = 'PRDXREF'

delete from NBrightBuy where typecode = 'USERPRDXREF'

delete from NBrightBuy where typecode = 'CATCASCADE'

delete from NBrightBuy where typecode = 'CATXREF'

## Delete ALL Categories in DB

delete from NBrightBuy where typecode = 'CATEGORY' and [XMLData].value('(genxml/dropdownlist/ddlgrouptype)[1]','nvarchar(max)') = 'cat'

delete from NBrightBuy where typecode = 'CATEGORYLANG' and ParentItemId not in (Select itemid from NBrightBuy where typecode = 'CATEGORY')