USERS TABLE

USERS TABLE

**Users**

UserID = INT, PRIMARY KEY, IDENTITY (1,1)

ID given to the user when signing up

Email = NVARCHAR(255), UNIQUE, NOT NULL

User entered email address, the registered email can only be used on one account, the user must add an email when signing up

PwdHash = VARCHAR(MAX), NOT NULL

Users password hash, using preferably ARGON2

FirstName = NVARCHAR(255), NOT NULL

Users first name, stored in NVARCHAR to accommodate international use. Has a character limit of 255 to accommodate corner cases.

LastName = NVARCHAR(255), NOT NULL

Users last name, stored in NVARCHAR to accommodate international use. Has a character limit of 255 to accommodate corner cases.

StreetName = NVARCHAR(255), NOT NULL

Users registered street name, stored in NVARCHAR to accommodate international use. Has a character limit of 255 to accommodate corner cases.

StreetNumber = SMALLINT, NOT NULL

Users street number, stored separately for normalization of the database and for easier filtering. When stored separately it has better support for international use cases.

PostalCode = VARCHAR(30), NOT NULL

Users postal code, we use VARCHAR for flexibility and better international use.

City = NVARCHAR(255), NOT NULL

Users city, stored in NVARCHAR to accommodate international use. Has a character limit of 255 to accommodate corner cases.

Country = NVARCHAR(60), NOT NULL

Users country, stored in NVARCHAR to accommodate international use. Has a character limit of 60 as that is the longest country name in any language.

UserType = CHAR(1) (Customer/Admin), NOT NULL

char (1) represents the roll with either a or c for performance and efficiency

Users roll, Customer has no ability to edit in the database/website, Admin has the ability to make edits and add/remove users.

SysLog TABLE

**SysLog**

SysLog\_ID = INT, PRIMARY KEY

ID for the login attempt

User\_ID = INT, FOREIGN KEY

User ID of the login attempt

IPAddress = VARBINARY(16)

We use VARBINARY to support both IPv4 and IPv6 addresses, this uses the SP TransformIP to convert the IP-address to and from binary

Email = NVARCHAR(255), NOT NULL

Shows the email address trying to login

DateTime = DATETIME(), NOT NULL

Fetches the date and time when the login attempt was made

IsAuthenticated = BIT, NOT NULL

Shows if the sign in attempt was successful and if the user was authenticated correctly.

1 represents a successful attempt while 0 represents a not successful attempt.

Orders

**Orders**

OrderID = INT, PRIMARY KEY, UNIQUE

UserID = INT, FOREIGN KEY

TotalAmount = INT

DeliveryOption = TINYINT, FOREIGN KEY

OrderDate = DATETIME, NOT NULL

Fulfillment = BIT, NOT NULL

PaymentMethod = TINYINT, FOREIGN KEY

OrderLines

**OrderLines**

OrderLineID = INT PRIMARY KEY

OrderID = INT NOT NULL

ProductID = INT NOT NULL

ProductName = NVARCHAR(255)

Quantity = INT NOT NULL

UnitPrice = DECIMAL(10, 2), NOT NULL

ShippedDate = DATE

WarehouseID = INT, FOREIGN KEY

Notes = NVARCHAR(MAX)

Products

**Products**

**ProductID = INT, PRIMARY KEY**

**ProductName = NVARCHAR(255), NOT NULL**

**SupplierID = INT, FOREIGN KEY, NOT NULL**

**Color = INT, FOREIGN KEY**

**ProductWeight = INT**

**UnitPrice = DECIMAL (10, 2), NOT NULL**

**TaxAmt = TINYINT**

**IsActive = BIT, NOT NULL**

**CreatedDate = DATETIME, NOT NULL**

**LastEdited = DATETIME, NOT NULL**

Suppliers

**Suppliers**

SupplierID = INT, PRIMARY KEY

OrgName = NVARCHAR(255), NOT NULL

Country = NCARCHAR(255)

Warehouse

**Warehouse**

WarehouseID = INT, PRIMARY KEY

WarehouseName = NVARCHAR(50), NOT NULL

Street\_Name = NVARCHAR(255), NOT NULL

Users registered street name, stored in NVARCHAR to accommodate international use. Has a character limit of 255 to accommodate corner cases.

Street\_Number = INT, NOT NULL

Users street number, stored separately for normalization of the database and for easier filtering. When stored separately it has better support for international use cases.

Postal\_code = VARCHAR(30), NOT NULL

Users postal code, we use VARCHAR for flexibility and better international use.

City = NVARCHAR(255)

Country = NVARCHAR(255)

Phone = INT, NOT NULL

Email = NVARCHAR(100)

PaymentMethods

**PaymentMethods**

PaymentID = INT, PRIMARY KEY

PaymentType = VARCHAR(25)

DeliveryOptions

**DeliveryOptions**

DeliveryID = INT, PRIMARY KEY

DeliveryPrice = SMALLINT

DeliveryType = VARCHAR(100)

Colors

**Colors**

ColorID = INT, PRIMARY KEY

ColorName = VARCHAR(15)

Stored Procedures

@AddNewUser

This stored procedure requires you to add the strings in the following order in ‘text’ if you do not want to use an insert statement

* Email
* PwdHash
* FirstName
* LastName
* StreetName
* StreetNumber
* PostalCode
* City
* Country
* UserType (A or C depending on if the user is an Admin or a Customer)

This procedure requires the schema to be followed, none of these can be left empty and have to follow the constraints of the table.

@LastNonAuthLogon

Shows the latest logon that was not authenticated…

VIEWS

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