

Manitou Core - SQL Query - Decode Passwords (Internal Use Only)

01/02/2024 6:40 pm EST



DO NOT GIVE THIS TO CUSTOMERS, THIS IS STRICTLY FOR INTERNAL USE!!

A script to decode Manitou passwords if they are ever lost. There is a single line that needs to be edited and is identified by a comment just before it for this query to work. By default the script runs against the BOLD user.

```
USE [MANITOU];
GO

-- Check for decode function and remove if it exists
IF OBJECT_ID(N'[dbo].[DecodeManitouPassword]', N'FN') IS NOT NULL
BEGIN
DROP FUNCTION [dbo].[DecodeManitouPassword];
END;
GO

-- Add decode function
CREATE FUNCTION [dbo].[DecodeManitouPassword]
(@EncodedPassword VARCHAR(150))
RETURNS VARCHAR(75)
AS
BEGIN
DECLARE @PasswordIndex BIGINT;
DECLARE @PasswordLength BIGINT;
DECLARE @EncodedPasswordCharacter1 CHAR(1);
DECLARE @EncodedPasswordCharacter2 CHAR(1);
DECLARE @EncodedPasswordCharacter1_ASCII SMALLINT;
DECLARE @EncodedPasswordCharacter2_ASCII SMALLINT;
DECLARE @DecodedPasswordCharacter CHAR(1);
DECLARE @DecodedPasswordCharacter_ASCII SMALLINT;
DECLARE @DecodedPassword VARCHAR(75);

SET @PasswordIndex = 1;
SET @PasswordLength = LEN(@EncodedPassword);
SET @DecodedPassword = "";

WHILE @PasswordIndex &lt;= @PasswordLength
BEGIN
SET @EncodedPasswordCharacter1 = SUBSTRING(@EncodedPassword, @PasswordIndex, 1);
SET @EncodedPasswordCharacter1_ASCII = ASCII(@EncodedPasswordCharacter1);
SET @EncodedPasswordCharacter2 = SUBSTRING(@EncodedPassword, @PasswordIndex + 1, 1);
SET @EncodedPasswordCharacter2_ASCII = ASCII(@EncodedPasswordCharacter2);

IF ASCII(@EncodedPasswordCharacter1) = 195
BEGIN
-- ASCII character between 0 and 63
SET @DecodedPasswordCharacter_ASCII = CASE @EncodedPasswordCharacter2_ASCII % 8
WHEN 5 THEN 133
```

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WHEN 5 THEN 131
WHEN 4 THEN 131
WHEN 7 THEN 133
WHEN 6 THEN 131
WHEN 1 THEN 125
WHEN 0 THEN 123
WHEN 3 THEN 125
WHEN 2 THEN 123
ELSE NULL
END;
END
ELSE IF ASCII(@EncodedPasswordCharacter1) = 194
BEGIN
-- ASCII character between 64 and 128
SET @DecodedPasswordCharacter_ASCII = CASE (@EncodedPasswordCharacter2_ASCII - 64) % 8
WHEN 5 THEN 69
WHEN 4 THEN 67
WHEN 7 THEN 69
WHEN 6 THEN 67
WHEN 1 THEN 61
WHEN 0 THEN 59
WHEN 3 THEN 61
WHEN 2 THEN 59
ELSE NULL
END;
END;

SET @DecodedPasswordCharacter_ASCII = @EncodedPasswordCharacter2_ASCII - @DecodedPasswordCharacter_ASCII;
SET @DecodedPasswordCharacter = CHAR(@DecodedPasswordCharacter_ASCII);

SET @DecodedPassword = @DecodedPassword + @DecodedPasswordCharacter;

SET @PasswordIndex = @PasswordIndex + 2;
END;

RETURN @DecodedPassword;
END;
GO

-----
-- Edit the user BOLD in the following DECLARE statement to decode the user's password as desired.
-----

DECLARE @UserId NVARCHAR(12) = N'BOLD';

SELECT
AP1.[PasswordType]
, AP1.[UserId]
, AP1.[Password]
, AP1.[PasswordDateTime]
FROM
[PASSWD] AS AP
CROSS APPLY (
SELECT
AP.[USRID] AS [UserId]
, CASE AP.[TYPE]
WHEN 0 THEN '0 - Manitou'
WHEN 1 THEN '1 - Accounts System'

```

```
ELSE NULL
END AS [PasswordType]
, [dbo].[DecodeManitouPassword](AP.[PASSWD]) AS [Password]
, AP.[PWDATE] AS [PasswordDateTime]
) AS AP1
WHERE
AP.[ACTIVE] = 1
AND AP.[USRID] = @UserId
ORDER BY
AP1.[PasswordType] ASC
, AP1.[UserId] ASC;

-- Remove function to prevent abuse
DROP FUNCTION [dbo].[DecodeManitouPassword];
GO
```