To enforce a strong password in your CIS SQL Database system that includes numbers, upper- and lower-case letters, and special characters, you can use a **regular expression** (regex) in the **Validation String** field. This regex will ensure that the password meets the following criteria:

- At least one uppercase letter
- At least one lowercase letter
- At least one digit
- At least one special character (e.g., !@#\$%^&*)
- Minimum length (e.g., 8 characters)

Here's a regex pattern that fits these criteria:

ruby

Copy code into validation string in users table under password validation.

See Diagram 1

Explanation:

- ^: Start of the string.
- (?=.*[A-Z]): Ensure at least one uppercase letter.
- (?=.*[a-z]): Ensure at least one lowercase letter.
- (?=.*\d): Ensure at least one digit.
- (?=.*[@\$!%*?&]): Ensure at least one special character.
- [A-Za-z\d@\$!%*?&]{8,}: Allow letters, digits, and special characters, with a minimum of 8 characters.
- \$: End of the string.

Example of how to fill in your fields:

- Validation String: ^(?=.*[A-Z])(?=.*[a-z])(?=.*\d)(?=.*[@\$!%*?&])[A-Za-z\d@\$!%*?&]{8,}\$
- Max Length: Depending on your system's needs, set it to 20 or another suitable number.

• Mask String: ******* (If you want to mask the input for security reasons.)

Diagram 1

Record has been saved successfully **Edit Field** Field Name: password Save Field in Table? Include In Export List? * Caption: Password Required: 🛛 🔞 Is Unique? 🗌 😢 Active Flag: 🛛 🔞 Control Type: TextBox Data Type: Encrypted > Max Length: 0 8 Mask String: Width: 400 Grid Align: None Y Wrap Grid Cell Data? Yes > **Grid Format:** Priority: 8 **Help Tooltip:** $\hfill\Box$ Tooltip With Image Icon **Default Value:** Render in HTML? No >