

Database Functions

Saviynt supports the use of database functions (DB) that provide a mechanism to extend the functionality of the Enterprise Identity Cloud (EIC) database. A DB function accepts input parameters, performs actions, and returns the result as a single value or a result set. It can be used as an expression in an SQL statement.

Saviynt provides the following DB functions to perform specific actions:

FN_EIC_REPLACE

Use this DB function to replace the accented letters and special characters with alternatives to transform them into acceptable characters that can be parsed by EIC. This DB function works in conjunction with the **REPLACE_MAPPING** dataset provided by Saviynt, which contains default alternatives for replacing these letters and characters. You can extend this dataset or create new alternatives in another dataset based on your requirements and use it with the DB function. This DB function can be used with the user import preprocessor and with advanced configuration of identity rules (System Username Generation, Email Generation, and Account Name). For more information, see [Normalizing the Identity Data Using the User Import Preprocessor](#) and [Configuring Identity Lifecycle Setup](#). For more information about creating datasets, see [Creating Datasets](#).

- If you want to use the DB function with the default dataset, use the following syntax:

FN_EIC_REPLACE(*STRING_TO_BE_REPLACED*,null)

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Database Functions• If you want to use the DB function with another dataset, use the following syntax:

FN_EIC_REPLACE(*STRING_TO_BE_REPLACED*,'REPLACE_MAP_CUSTOM')

where **REPLACE_MAP_CUSTOM** specifies the name of the dataset.

Info

FN_EIC_REPLACE DB function is supported from Release v2022.0.1.

FN_EIC_SEQGEN

Use this DB function to return a counter for user attributes (identifier) specified in advanced configuration of identity rules (System Username Generation, Email Generation, and Account Name) for auto-incrementing system usernames, email IDs, and account names generated by these rules. The DB function returns a unique number corresponding to a user-defined identifier.

This DB function works in conjunction with the **SEQUENCE_GEN_MAPPING** dataset provided by Saviynt, which contains two values:

identifier and *id*. You can define *identifier* based on your requirements and use *id* to store the value of the counter every time the DB function is used. By default, the counter is set to 0. You can also specify a custom initial/starting value for the counter from **Admin > Identity Repository > Datasets > SEQUENCE_GEN_MAPPING**, and set the value for *id* in **Dataset Values**.

To use this DB function for storing the counter, specify the following in the **Advanced Config** query field:

FN_EIC_SEQGEN('identifier')

For example, if you enter the query as `concat(users.firstname,FN_EIC_SEQGEN('abc'))` in advanced configuration of the **System Username Generation Rule** and create multiple users, you will notice that the system username values for these users are incremented by +1, such as username, username1, and username2. If you navigate to **Admin > Identity**

Repository > Datasets > SEQUENCE_GEN_MAPPING > Dataset Values, you will find `abc` (the identifier specified in the query) and its corresponding `id` value that keeps incrementing based on the number of times the **System Username Generation Rule** has executed.

Managing Datasets

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- Enterprise Identity Cloud Administration Guide v2022.x
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- 1 Minutes read
- - [Perform Administration Tasks](#)
 - [Enterprise Identity Cloud \(EIC\)](#)
 - [v2022.x](#)

Data needs to be stored to accomplish and drive certain procedures or as a reference point. From Release v6.OSP1 onwards, you can create a Dataset by uploading data available inside a .csv file. A dataset is used to store data in the EIC database. It can be used for various purposes. For example, you can create a temporary repository using a dataset, and using the custom validation JAR or APIs you can perform validations with the help of the dataset stored in EIC database.

A lot of data is categorized as master data or metadata, which does not change often. This data is then used in other places or forms. Datasets are helpful in storing this kind of data. It is dynamic in nature, therefore, you can upload n number of datasets with attributes of your choice.