# SAP HANA table Function

Here I will show you how to create a simple tabular function in hana studio. I attempted to use this function in calculation view but apparently hana studio does not allow to do that – there is a bug ☹

This function will allow for a business scenario of searching for a person – HANA user will be prompted to provide employee’s name and the function will use fuzzy search to retrieve relevant data (so there will be a tolerance for typos / misspellings of person’s names)

1. Take a look at the data

I’m using SHINE’s Employees table, which looks like this: A screenshot of a social media post

Description automatically generated

A screenshot of a cell phone

Description automatically generated

As you can see the table name is super complicated and annoying to use so I will copy the table and give it a simple name like that:   
A screenshot of a cell phone

Description automatically generated

1. Create Function  
   This is how we create a function:  
   A screenshot of a cell phone

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Now we can query it to check if it works, let’s look for “SumerA screenshot of a cell phone

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A screenshot of a cell phone

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Our fuzzy search works but is too loose – USER does not really look like Sumer, let’s change the Fuzzy parameter to 0.7:  
A picture containing object

Description automatically generated  
A screenshot of a cell phone

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Now it works better!

1. Use our function in a Calculation View:  
   In HANA studio a table function can be a source to an Aggregation node:  
   A screenshot of a social media post

   Description automatically generated  
   We will choose our function to be a data source for Aggregation node therefore.

Unfortunately for some weird reason, HANA studio thinks that our function is a scalar one ☹

A screenshot of a cell phone

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Moreover, looking for our tabular function via input parameter panel which looks for scalar functions don’t work ☹   
A screenshot of a social media post

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IT looks like we cannot really use table functions in calculation views via hana studio this way – we should have create a table function object via going to file -> new -> other -> table function . This however probably requires running xsa advanced running, whereas my current system experiences some problems with it ☹   
Check out this very great article on table functions:   
 https://blogs.sap.com/2018/11/05/table-functions-in-sap-hana-step-by-step-guide/

1. The End