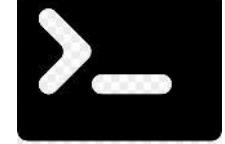




Protheus

Refatorando nossa aplicação



Hands on – Protheus

- Refatorando nossa aplicação

The screenshot shows a window titled "Faturamento" with the sub-menu "Protheus 10 > Faturamento > Atualizações >". On the left, a vertical menu lists options: Complet. Credito 1, Pesquisar, Visualizar, Incluir, Alterar, Excluir, Walkthru, Ambiente, Configuração, and Sair. The main area displays a grid of data with the following columns: Código, Cliente, Loja, Nome Cliente, Renda, Credito, Rs Utilizado, and Data Nascim. Three rows of data are visible:

Código	Cliente	Loja	Nome Cliente	Renda	Credito	Rs Utilizado	Data Nascim.
000001	000001	03	GABRIEL NOGUEIRA	200,00	400,00	0,00	11/07/03
000002	000001	02	LETICIA NOGUEIRA	300,00	600,00	0,00	30/06/98
000003	000001	01	MATHEUS NOGUEIRA	500,00	1.000,00	0,00	07/04/76

At the bottom, there are two status bars: "Inibir rodapé" and "Código 000001 Loja 03" on the left, and "Cliente 000001 Renda 200,00" on the right. The bottom navigation bar includes links like "P10 CodeBase Start", "Faturamento", "Teste / Matriz", "Administrador", and the date "28/10/22". The system tray at the bottom right shows icons for battery, signal, volume, and network, along with the text "12:36 ENG 28/10/2022".



Hands on – Protheus

- Refatorando nossa aplicação

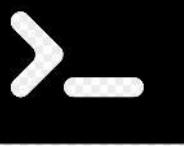
The screenshot shows the Protheus application interface. The main window title is "Faturamento". The menu bar includes "Protheus 10 > Faturamento > Atualizações >". On the left, a sidebar menu lists options: Lanc. Compl. Credito, Pesquisar, Visualizar, Incluir, Alterar, Excluir, Walkthru, Ambiente, Configuração, and Sair. The main content area displays a grid of sales data with columns: Complemento, Cod. Cliente, Loja Cliente, Nome Cliente, Data Lancam., Hora, and Valor. The grid shows four rows of data:

Complemento	Cod. Cliente	Loja Cliente	Nome Cliente	Data Lancam.	Hora	Valor
000002	000001	02	LETICIA NOGUEIRA	28/10/22	11:29	30,00
000003	000001	01	MATHEUS NOGUEIRA	28/10/22	11:30	40,00
000003	000001	01	MATHEUS NOGUEIRA	28/10/22	11:32	30,00
000003	000001	01	MATHEUS NOGUEIRA	28/10/22	11:37	30,00

At the bottom, a detailed view panel shows the selected row from the grid:

Complemento	000002	Cod. Cliente	000001
Loja Cliente	02	Data Lancam.	28/10/22
Hora	11:29	Valor	30,00

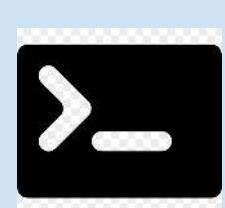
The system tray at the bottom right shows icons for battery, signal, volume, and network, along with the date and time: 28/10/2022 12:08 ENG.



Hands on – Protheus

Etapas:

- Criar campo código na tabela SZ1
- Ajustar os índices da tabela SZ1
- Criar um nova consulta Padrão SZ1
- Criar tabela SZ2
- Criar índices para a tabela SZ2
- Gatilho para o campo Z2_COMPLEM
- Criar um fonte para CRUD da tabela SZ2
- Criar menu para o novo fonte que trata a tabela SZ2



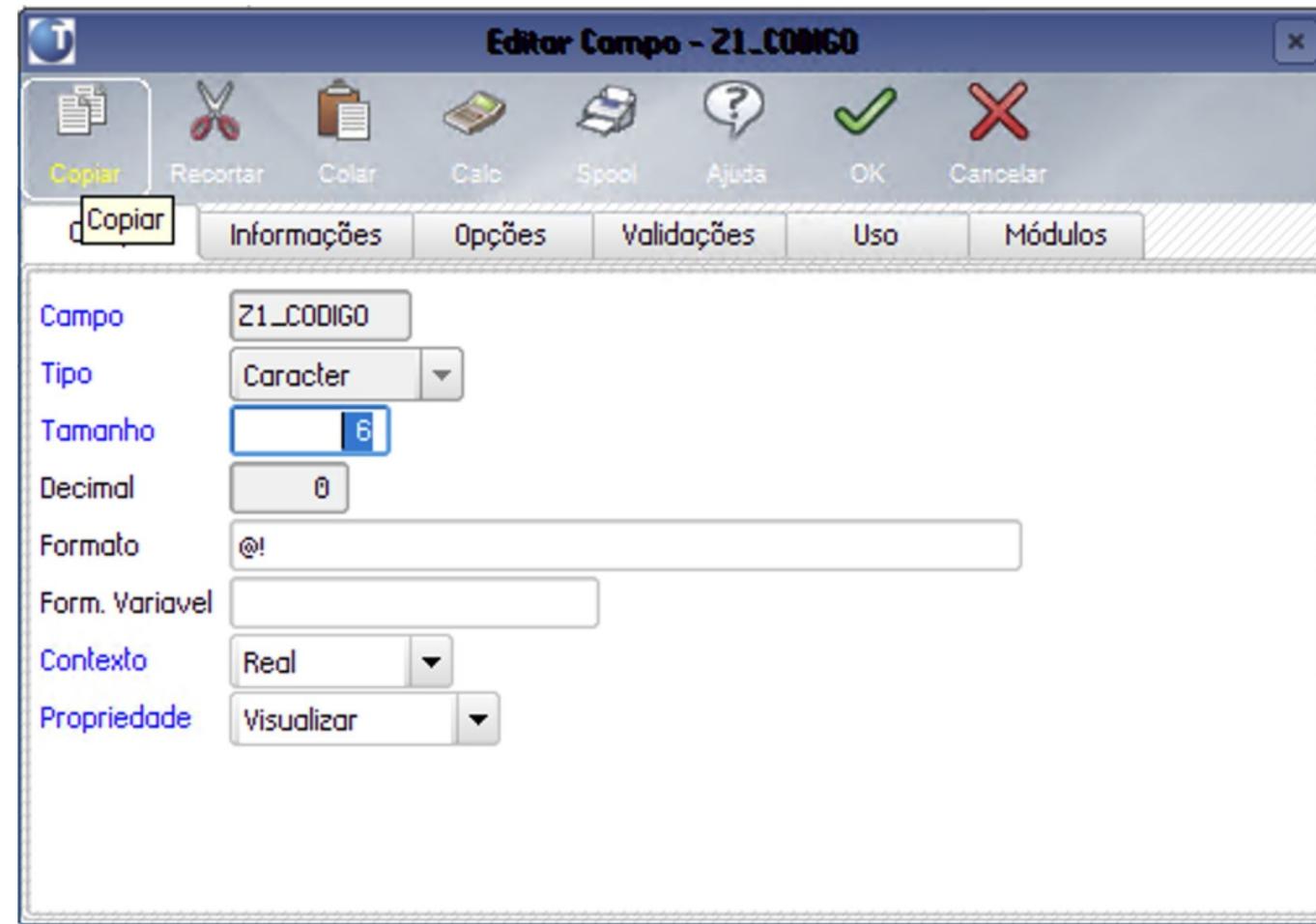
Hands on – Protheus

- Criar campo código na tabela SZ1

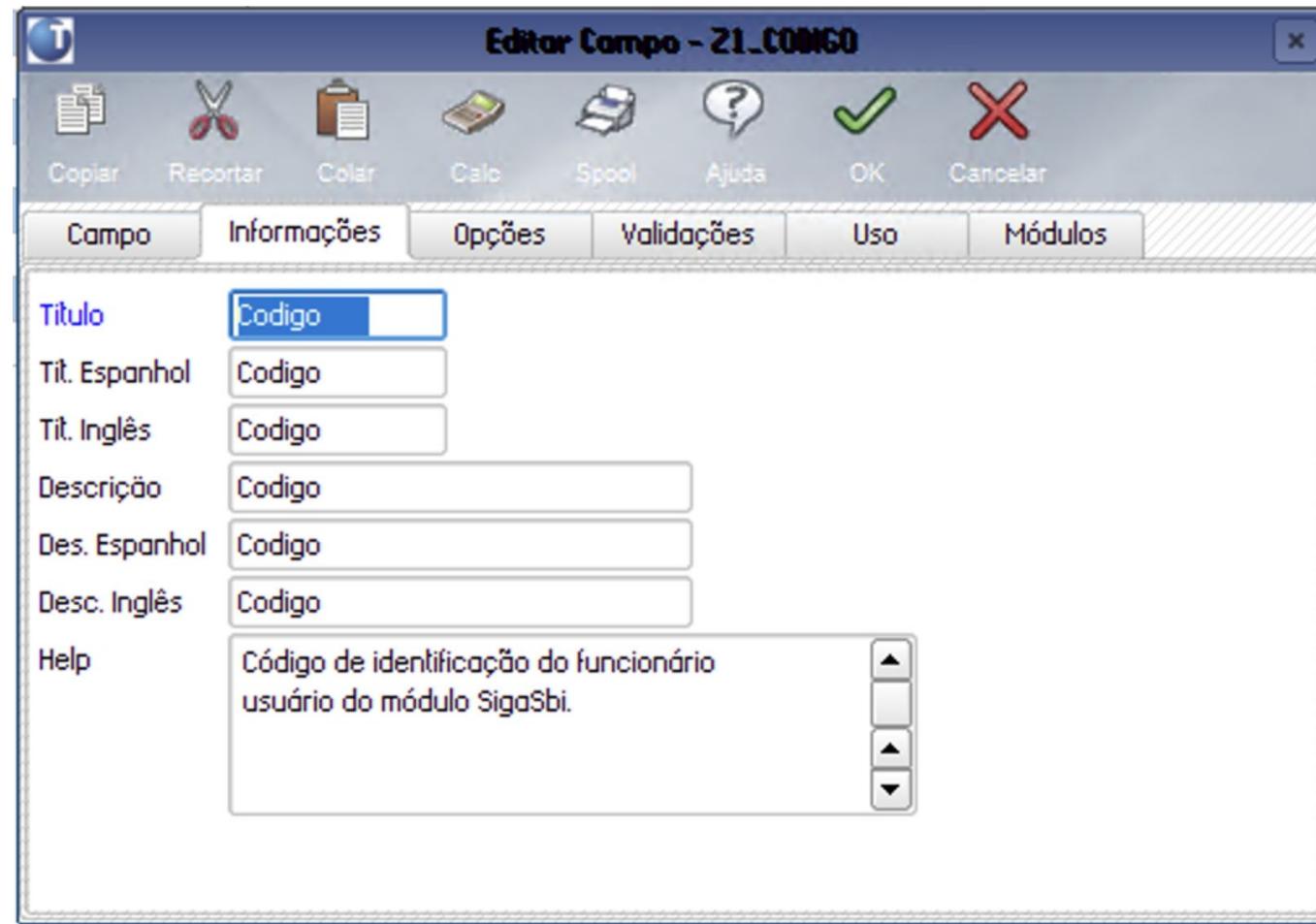
The screenshot shows the Protheus Configurator interface for editing the SZ1 table. The left sidebar shows a tree view of the database structure under 'Complemento Credito Cliente'. The main area displays a grid of fields with columns: Ordem, Campo, Título, and Descrição. The 'Codigo' field is selected, indicated by a blue highlight. The grid contains the following data:

Ordem	Campo	Título	Descrição
1	Z1_FILIAL	Filial	Filial do Sistema
2	Z1_CODIGO	Codigo	Codigo
3	Z1_CLIENTE	Cliente	Codigo do Cliente
4	Z1_LOJACLI	Loja	Loja do Cliente
5	Z1_NOMECLI	Nome Cliente	Nome do Cliente
6	Z1_RENDA	Renda	Renda do Cliente
7	Z1_CREDITO	Credito	Credito do Cliente
8	Z1_UTILIZA	Rs Utilizado	Valor Utilizado
9	Z1_NASCIME	Data Nascim.	Data de Nascimento

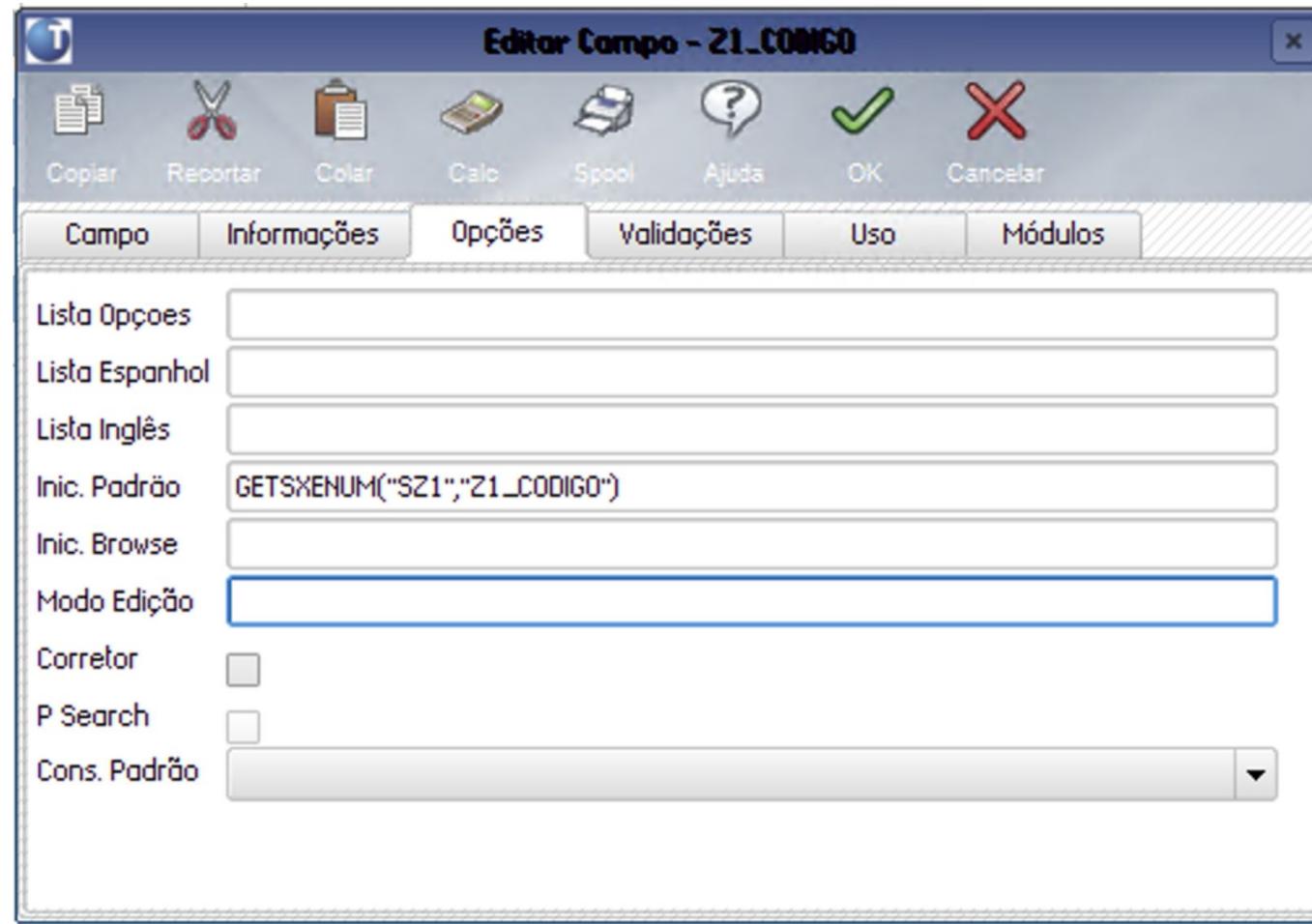
Hands on – Protheus



Hands on – Protheus

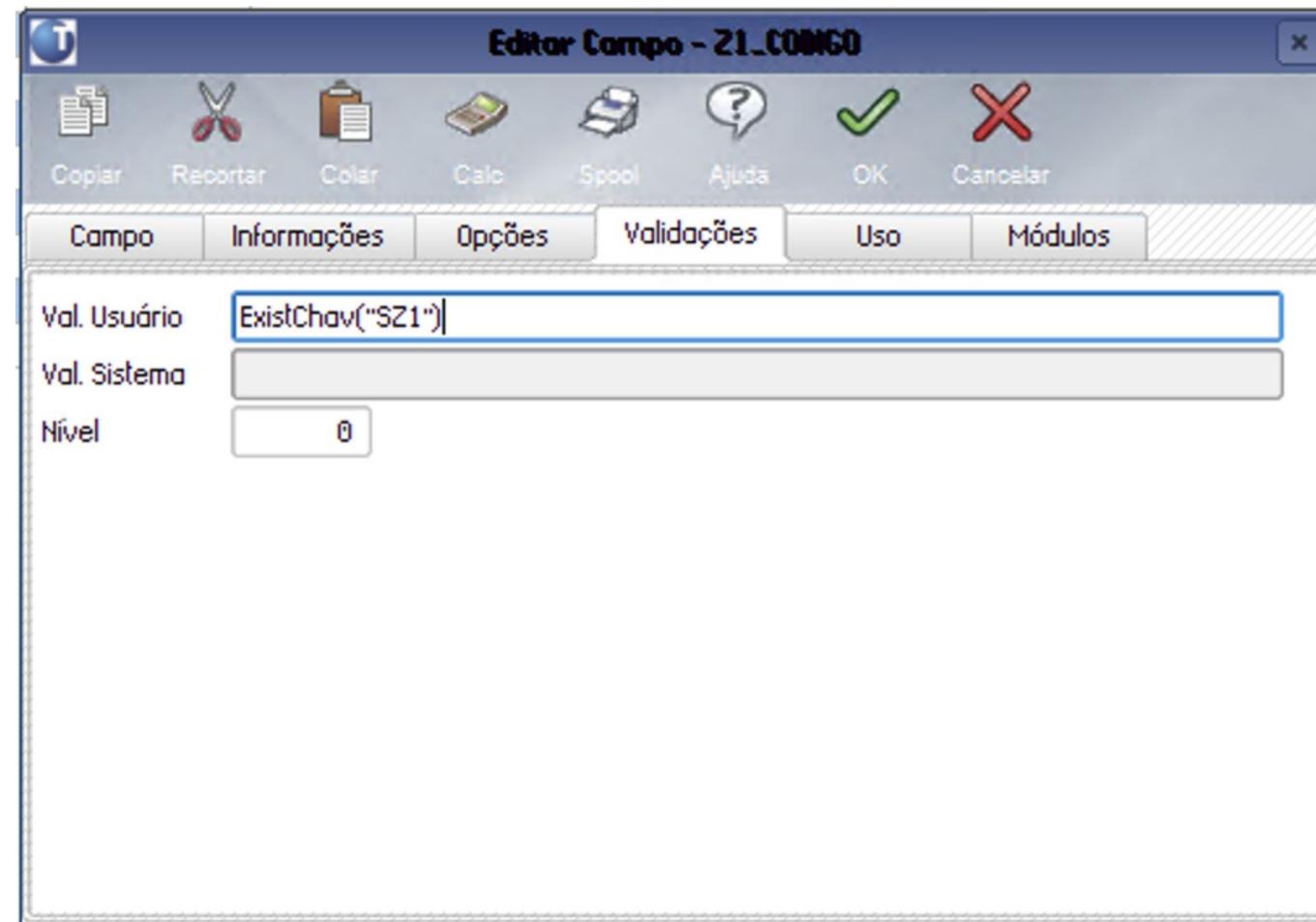


Hands on – Protheus



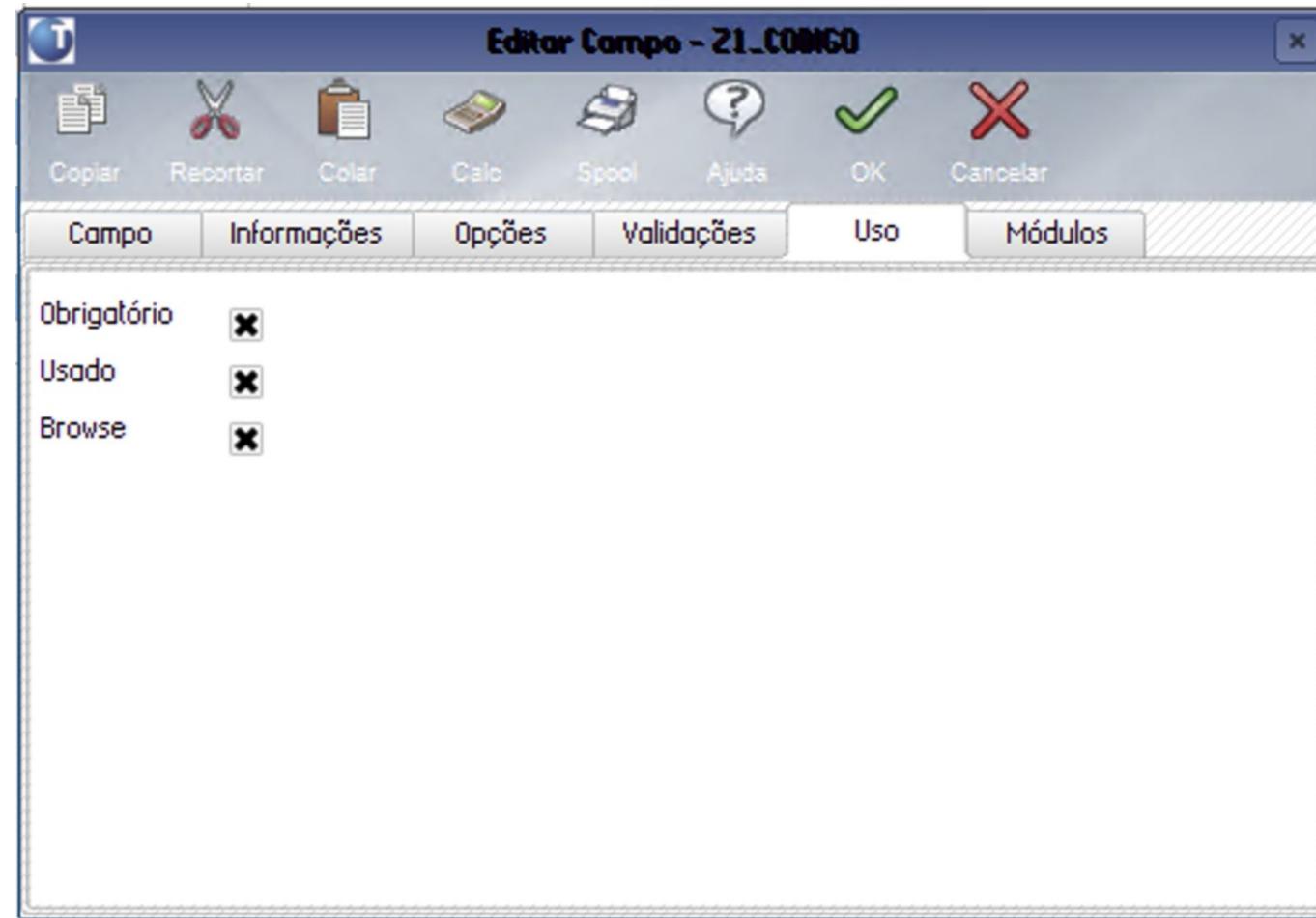
GETSXENUM("SZ1","Z1_CODIGO")

Hands on – Protheus



ExistChav("SZ1")

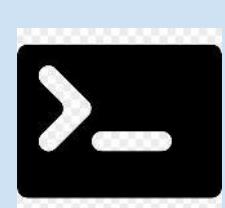
Hands on - Protheus



Hands on – Protheus

- Ajustar os índices da tabela SZ1

Ordem	Descrição	Chave
1	Codigo	Z1_FILIAL+Z1_CODIGO
2	Cliente+loja	Z1_FILIAL+Z1_CLIENTE+Z1_LOJACLI
3	Renda	Z1_FILIAL+STR(Z1_RENDERA)
4	Credito	Z1_FILIAL+STR(Z1_CREDITO)
5	R\$ Utilizado	Z1_FILIAL+STR(Z1_UTILIZA)



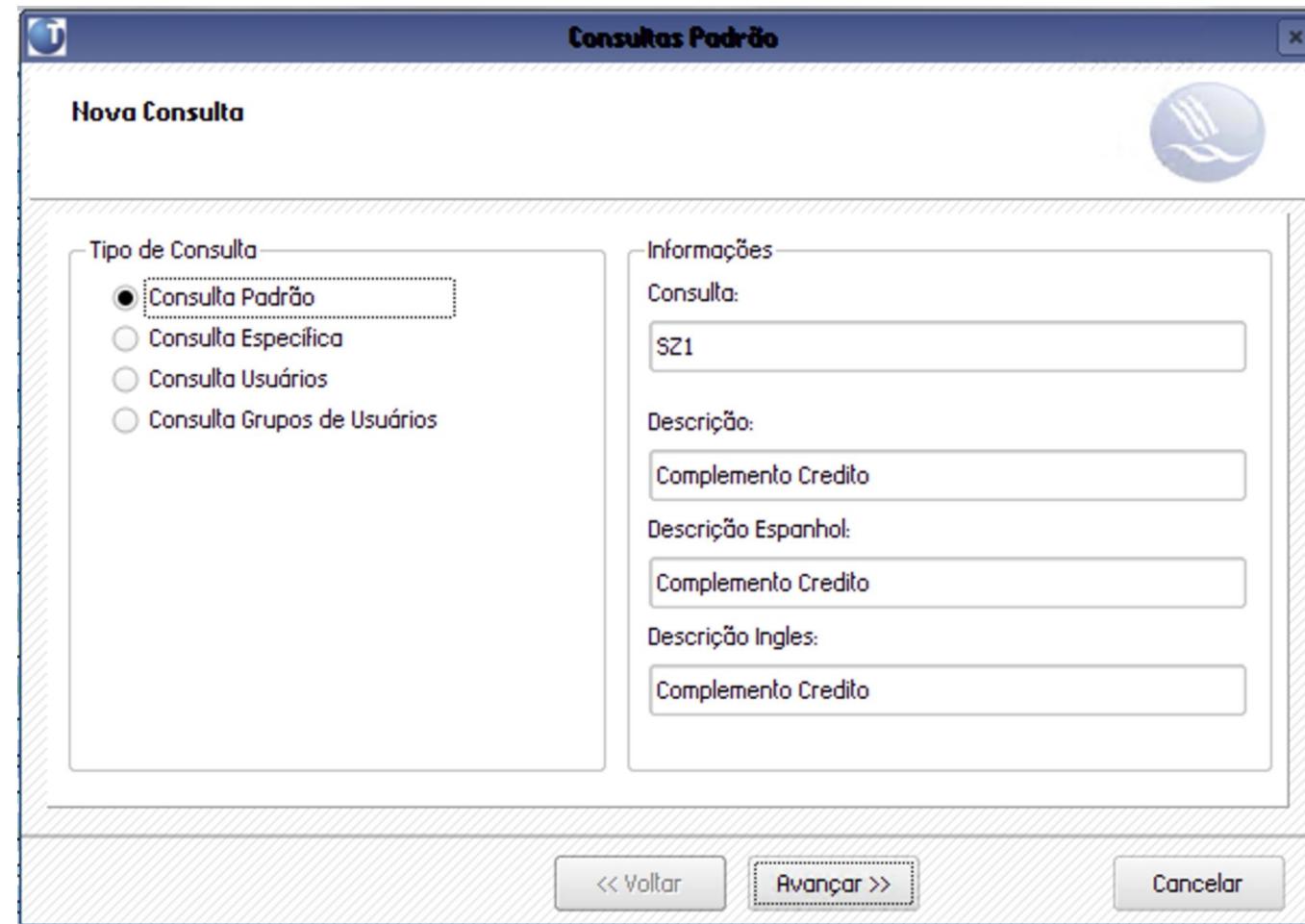
Hands on – Protheus

- Criar um nova consulta Padrão SZ1

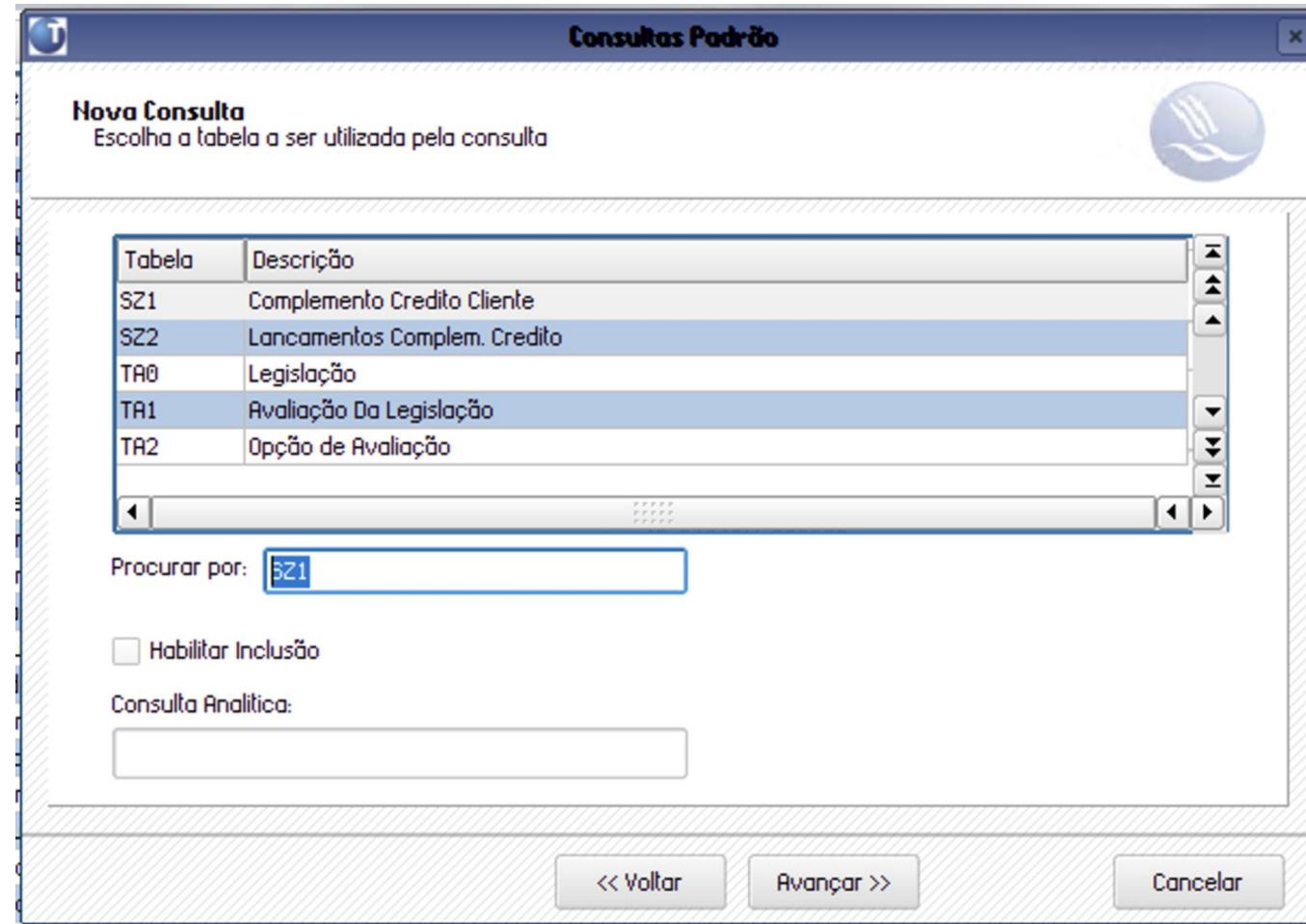
The screenshot shows the Protheus 10 Configurator application window. The title bar reads "Configurador" and the path "Protheus 10 > Configurador > Base de Dados >". The main window is titled "Gerenciador de Base de Dados" and displays a list of database objects under the path "Pasta Empresa Teste\Consultas Padrão". The list includes various standard queries such as Vendedores, Habilidades Produtivas, Fornecedor, Banco, Bancos, Técnico, Cliente X Eqpto, Serviço, Banco Cdci, Plano de Manutenção, Grupo de Cobertura, Índices, Números de Serie, Problemas, Contrato de Serviço, Grupo de Atendimento, Chamado Técnico, Chamados, Orcamento, O.s., and Repair Center. The "Consultas Padrão" folder is currently selected.

Consulta	Descrição
1AA	Vendedores
A1A	Habilidades Produtiv
A1B	Habilidades Produtiv
A1C	Habilidades Produtiv
A2A	Fornecedor
A61	Banco
A62	Banco
A63	Bancos
AA1	Técnico
AA3	Cliente X Eqpto
AA5	Serviço
AA6	Banco Cdci
AA8	Plano de Manutenção
AAA	Grupo de Cobertura
AAD	Índices
ARE	Números de Serie
ARG	Problemas
ARM	Contrato de Serviço
ARP	Grupo de Atendimento
AB1	Chamado Técnico
AB2	Chamados
AB3	Orcamento
AB6	O.s.
AB7	O.s.
ABF	Repair Center

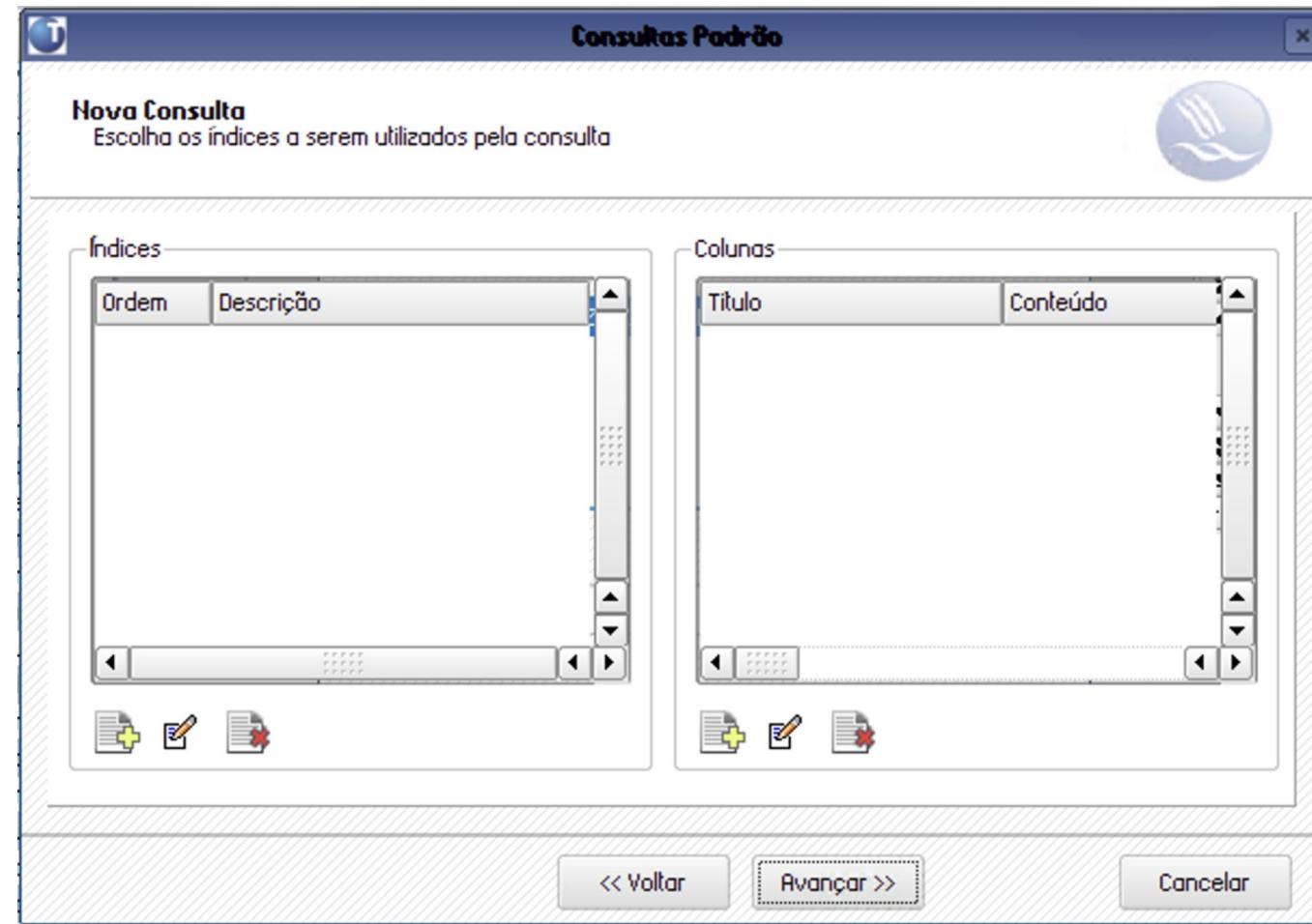
Hands on – Protheus



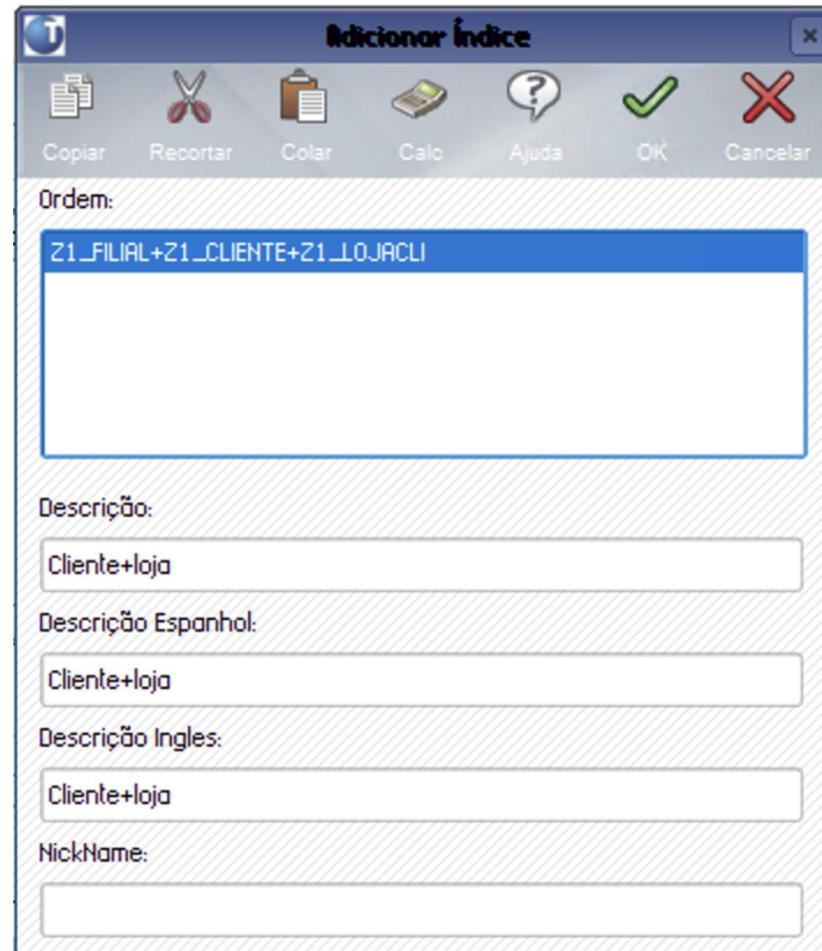
Hands on – Protheus



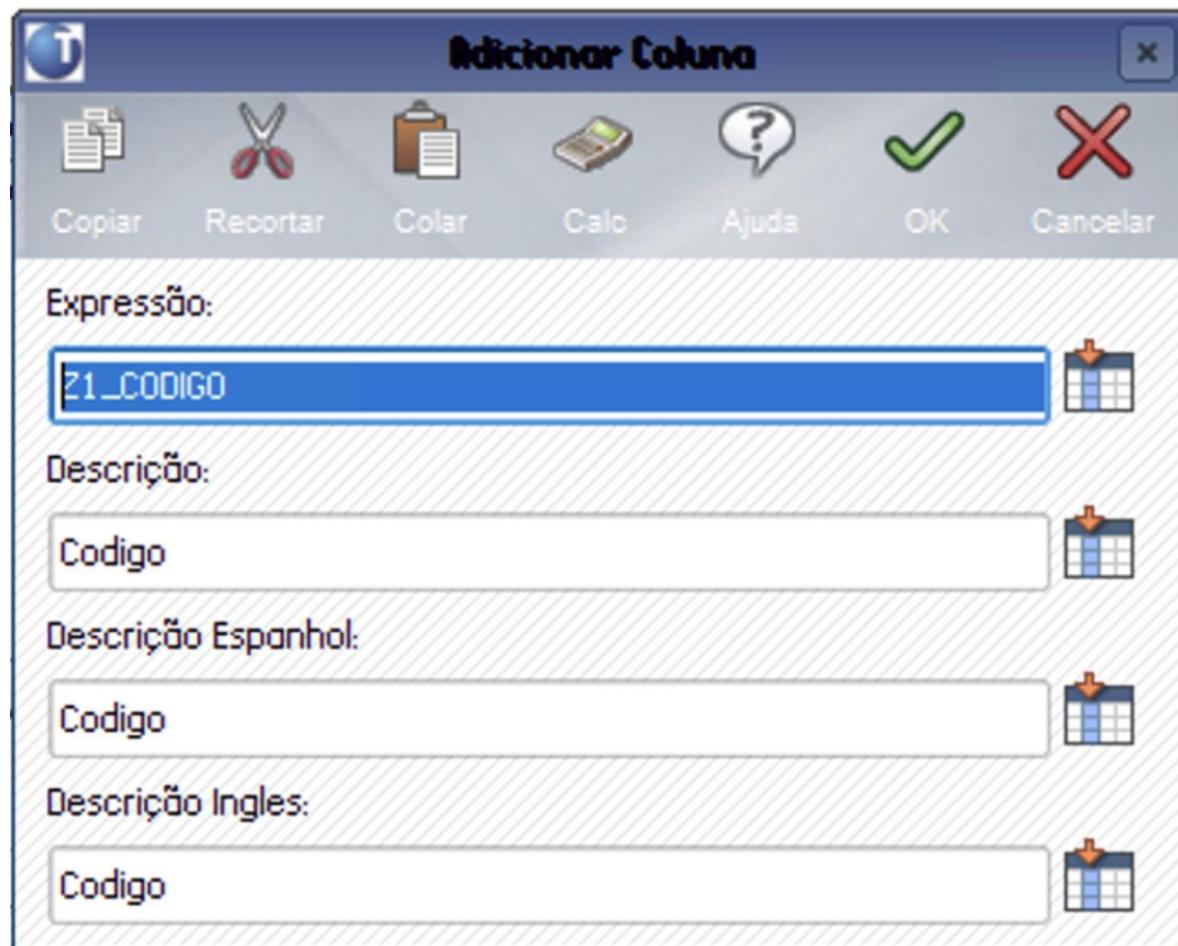
Hands on – Protheus



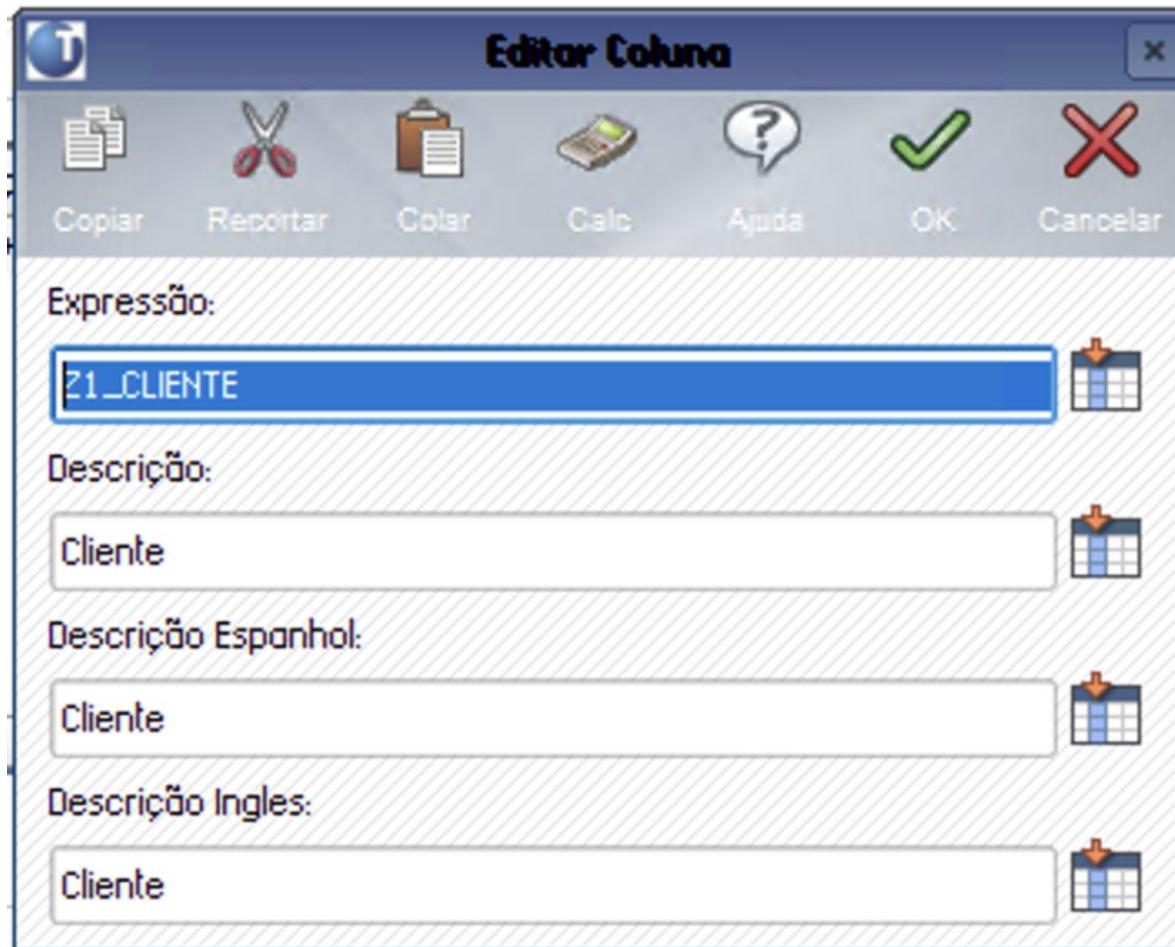
Hands on – Protheus



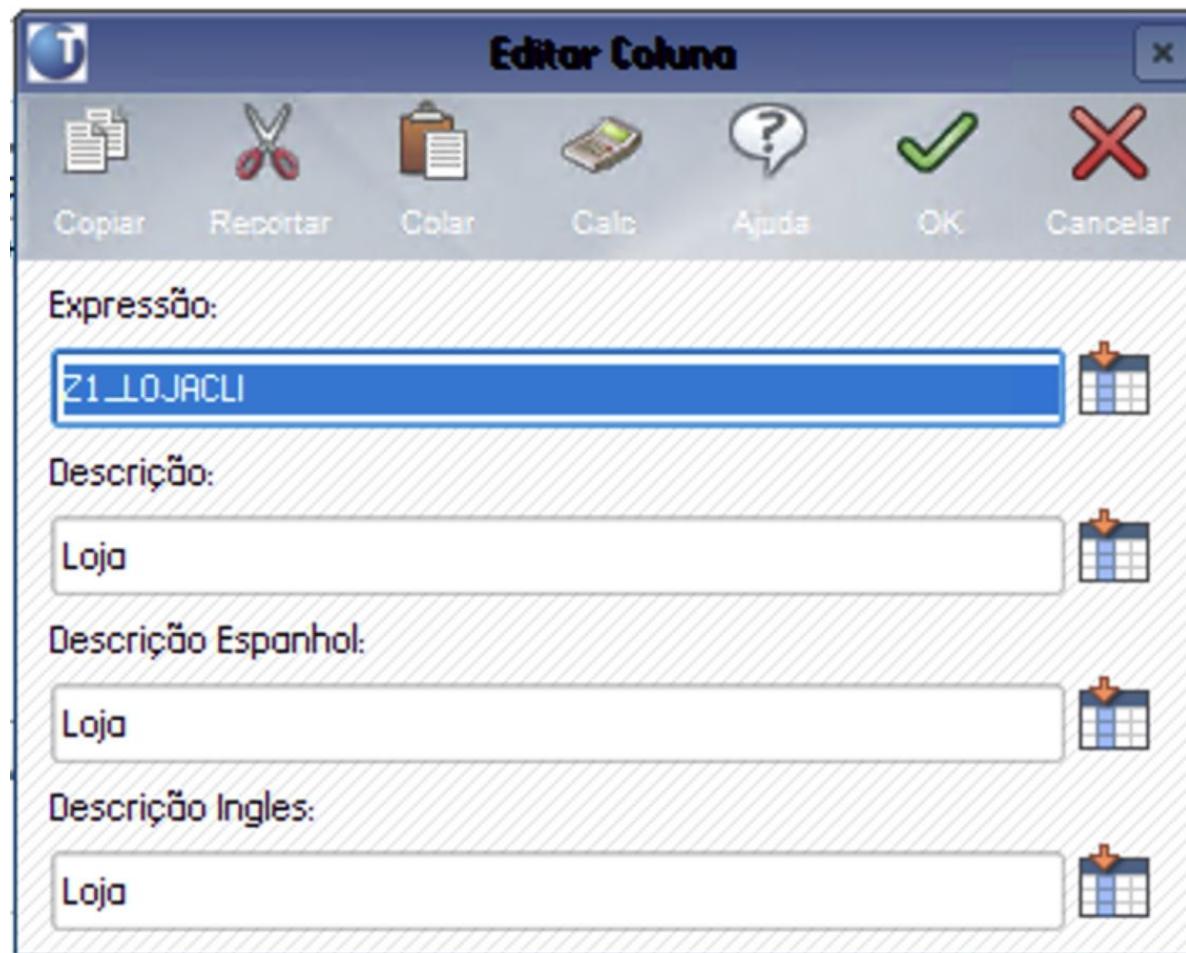
Hands on – Protheus



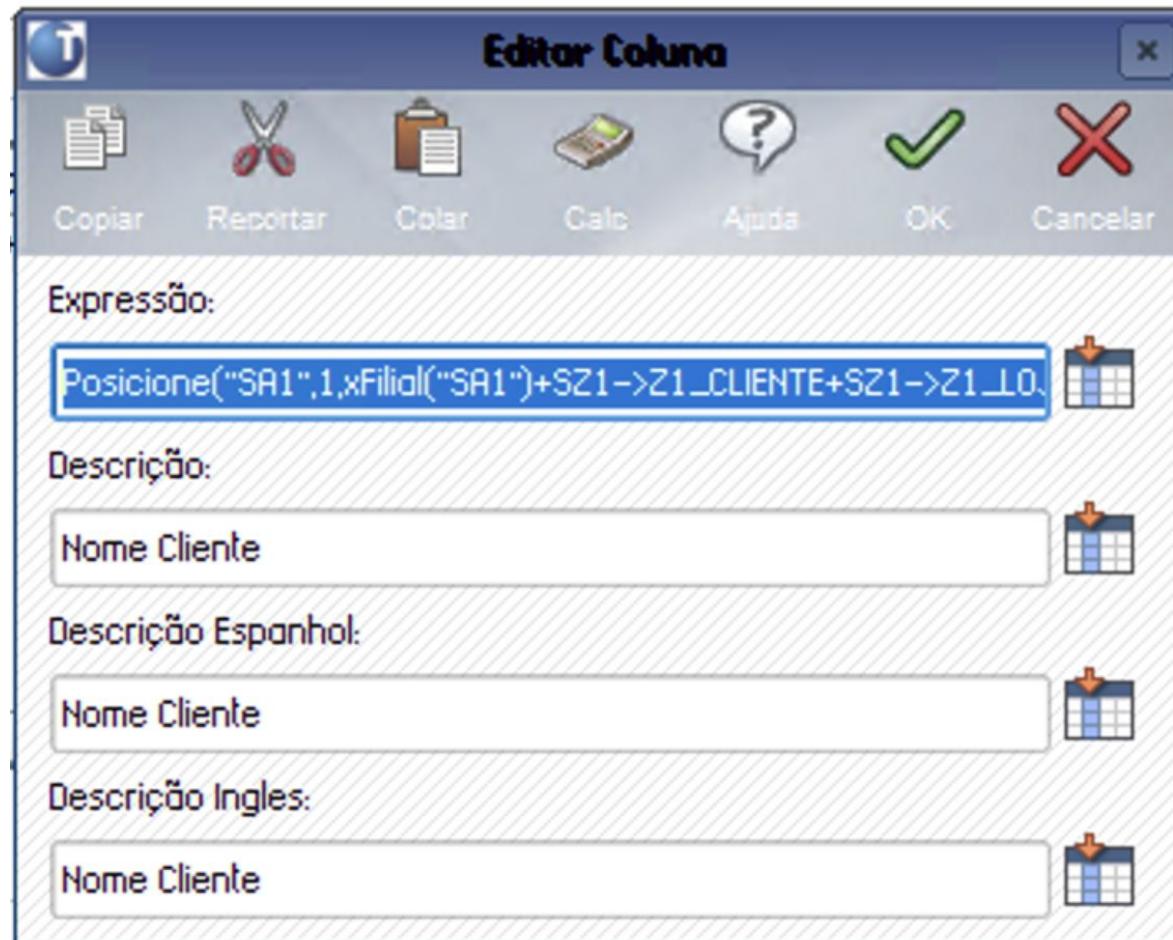
Hands on – Protheus



Hands on – Protheus

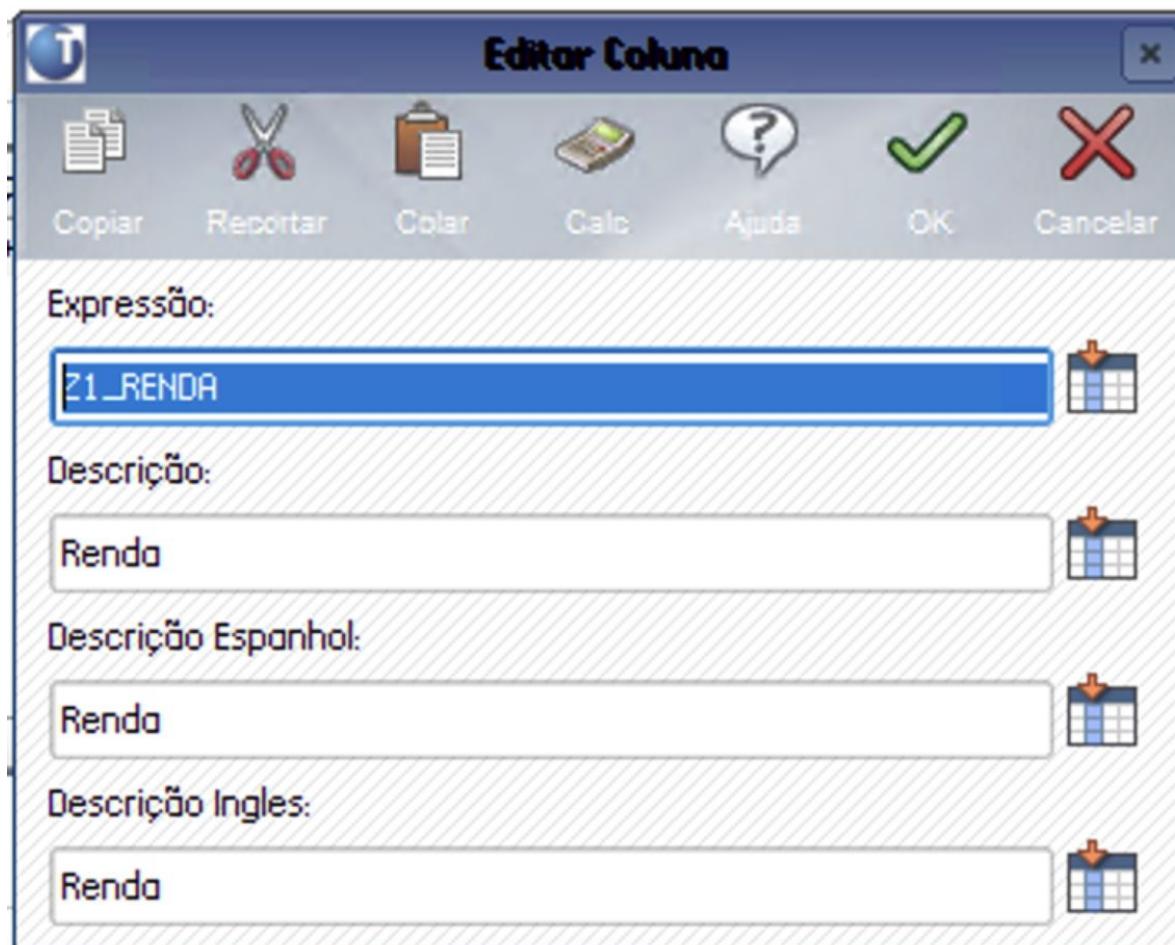


Hands on – Protheus

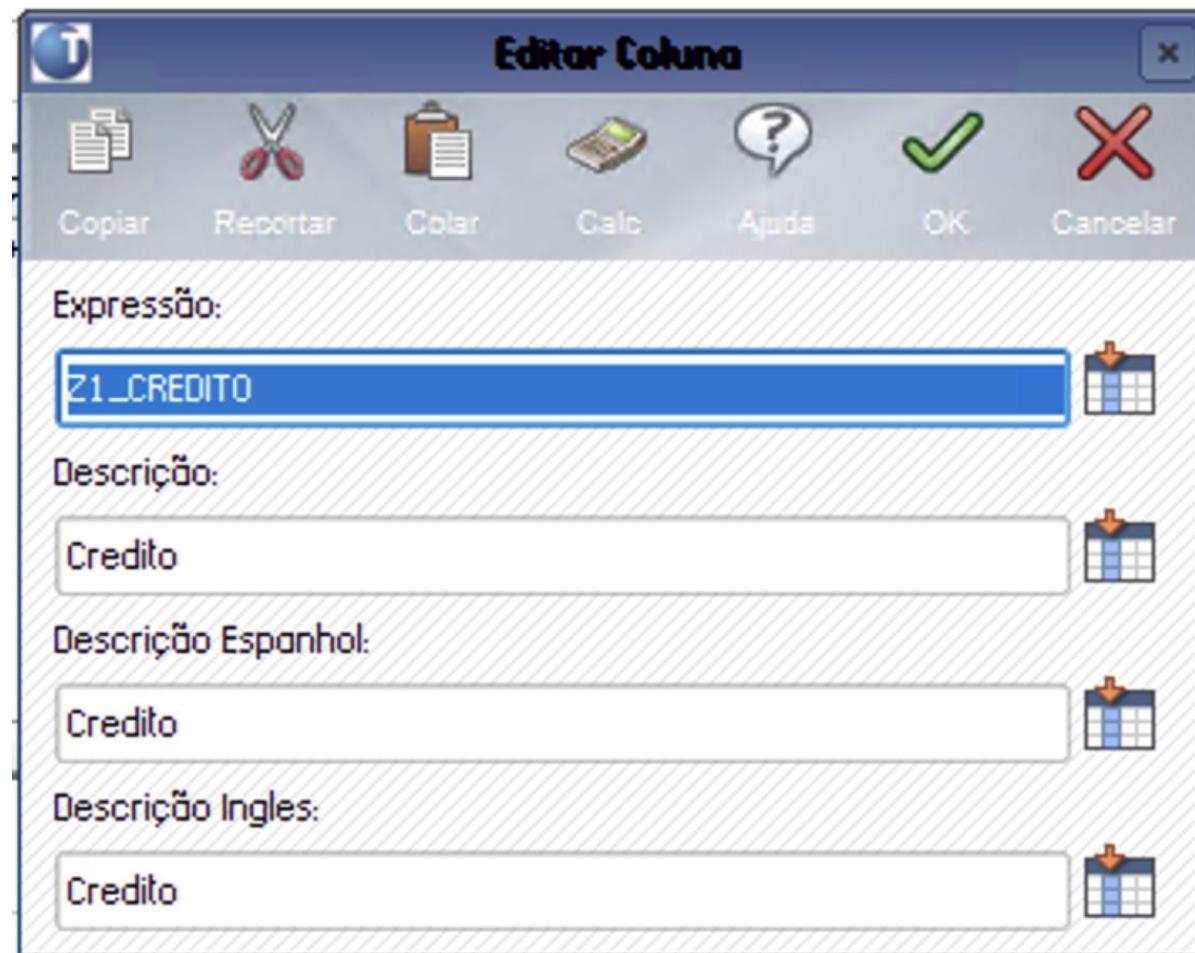


```
Posicione("SA1",1,xFilial("SA1")+SZ1->Z1_CLIENTE+SZ1->Z1_LOJACLI,"A1_NOME")
```

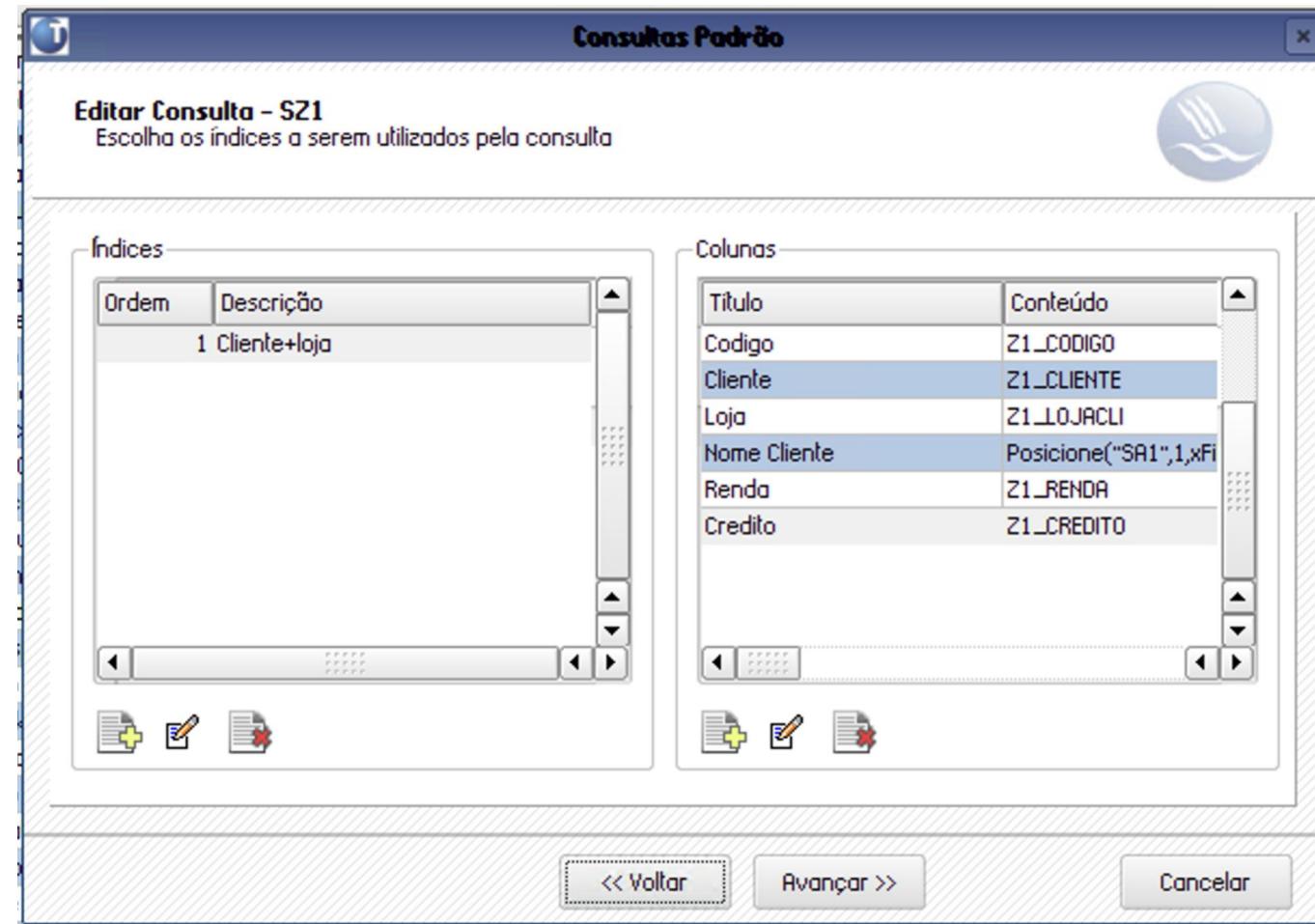
Hands on – Protheus



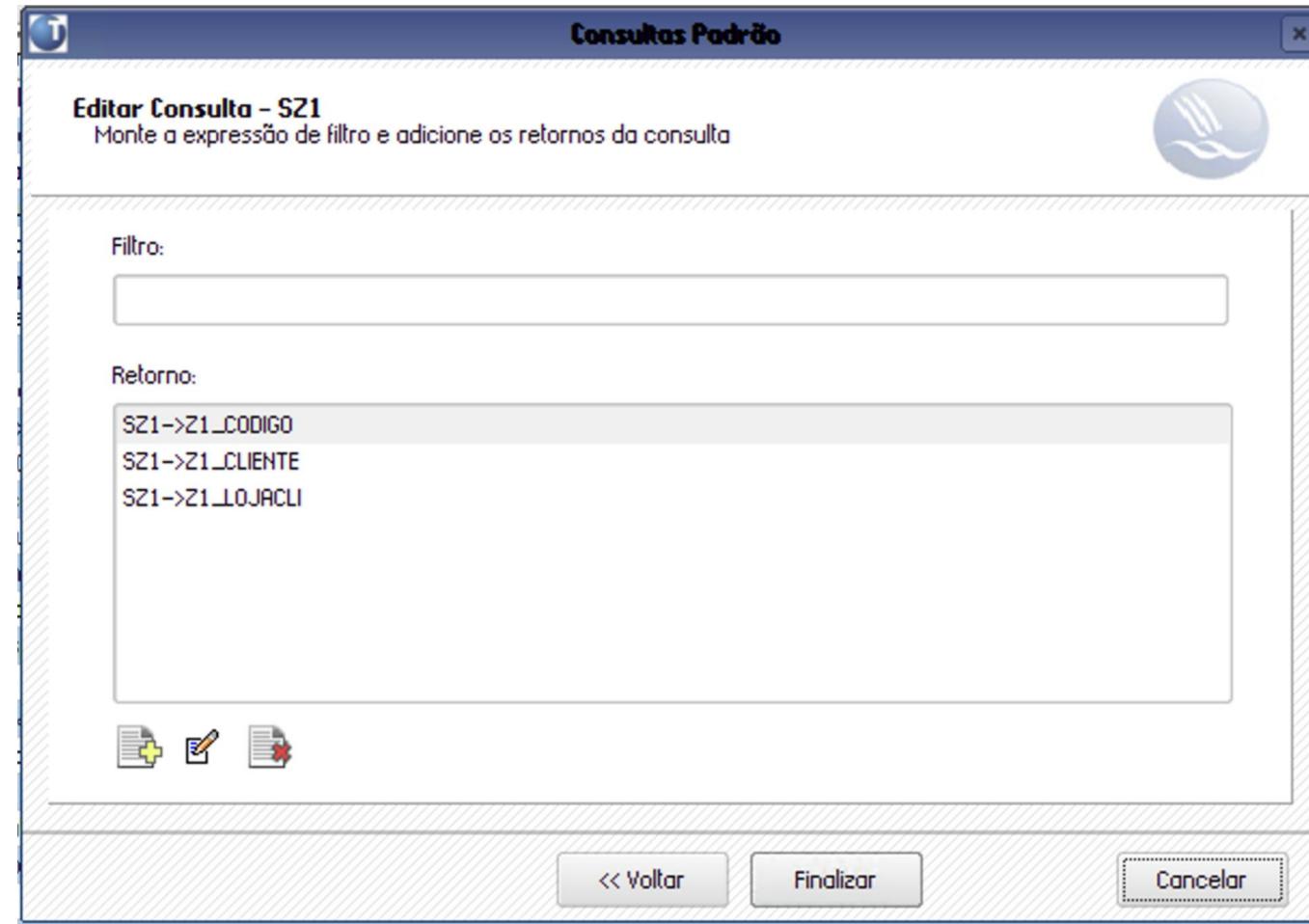
Hands on – Protheus



Hands on – Protheus



Hands on – Protheus



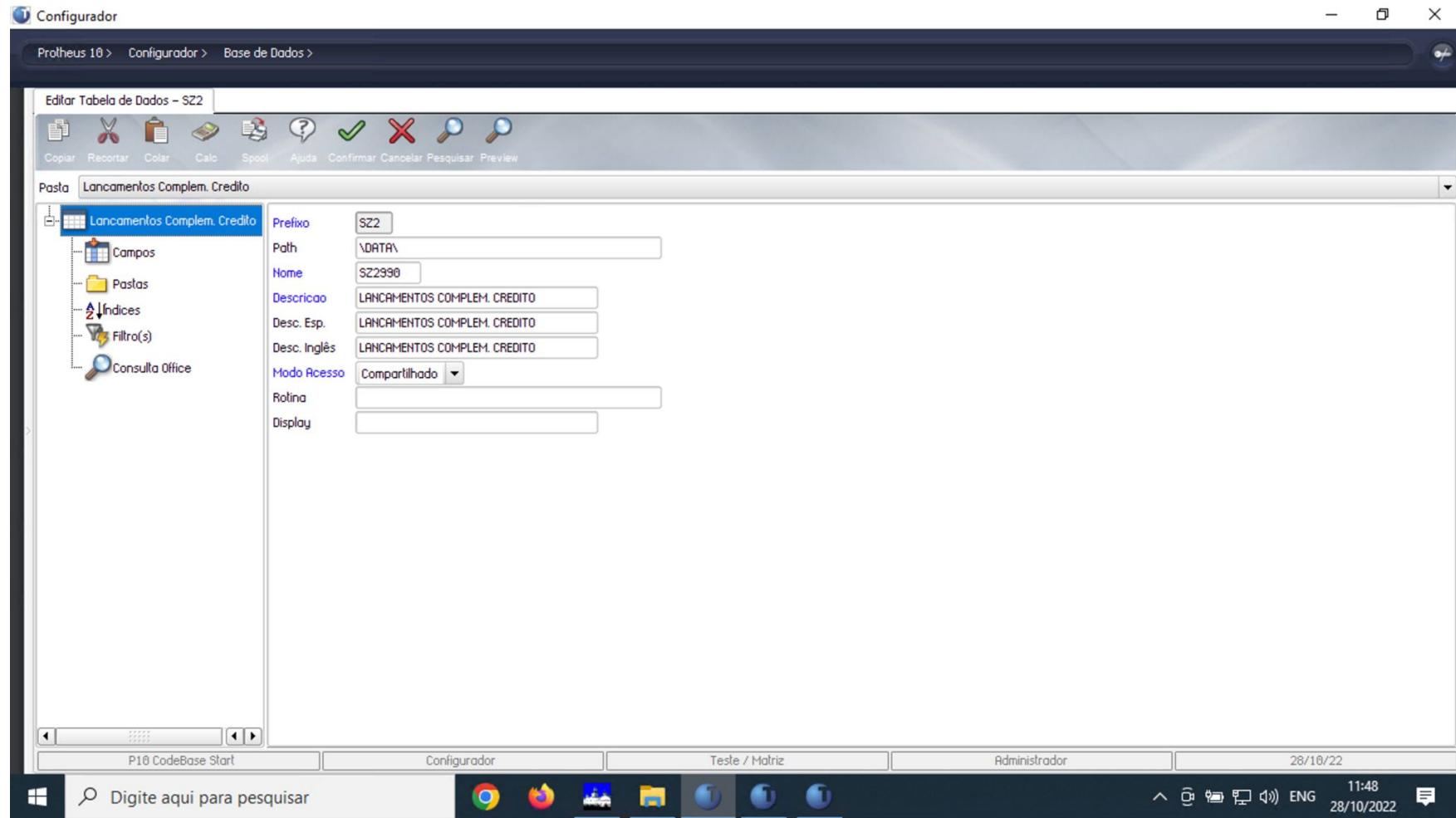
Hands on – Protheus

- Criar tabela SZ2

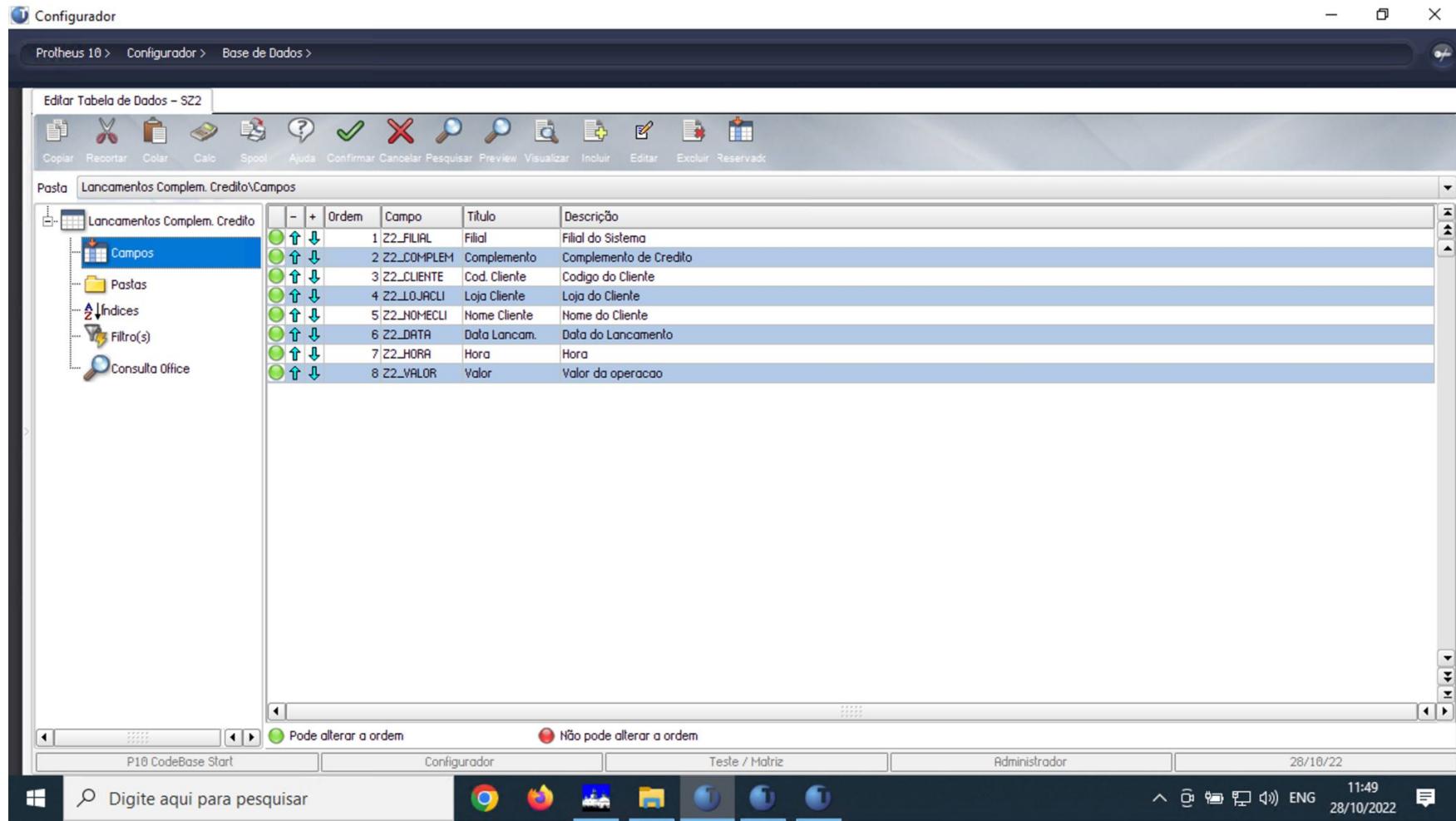
The screenshot shows the Protheus 10 Configurator interface, specifically the Database Manager. The title bar reads "Configurador" and "Protheus 10 > Configurador > Base de Dados >". The main window is titled "Gerenciador de Base de Dados" and shows a list of prefixes and their descriptions. A search bar on the left has "sz2" entered. The highlighted row in the list is "SZ2" with the description "Lancamentos Completos Credito".

Prefixo	Descrição
SZ2	Lancamentos Completos Credito
TR0	Legislação
TR1	Avaliação Da Legislação
TR2	Opcão de Avaliação
TR3	Fórmula
TR4	Aspectos
TR5	Resultado Avaliação
TR6	Critérios de Aval do Aspecto
TR7	Opcão de Avaliação do Aspecto
TR8	Classes
TR9	Avaliação X Aspecto
TRA	Plano de Ação
TRB	Resultado Avaliação
TAC	Avaliação X Legislação
TRD	Avaliação X Aspecto
TRE	Impacto
TRF	Nível Organizacional
TAG	Aspecto X Área
TAH	Fórmulas Da Avaliação Aspecto
TAI	Legislações do Impacto
TAJ	Aspecto X Legislação
TRK	Participantes do Processo
TAL	Documentos X Estrutura
TRM	Histórico Das demandas
TAN	Pessoas Expostas Ao Impacto

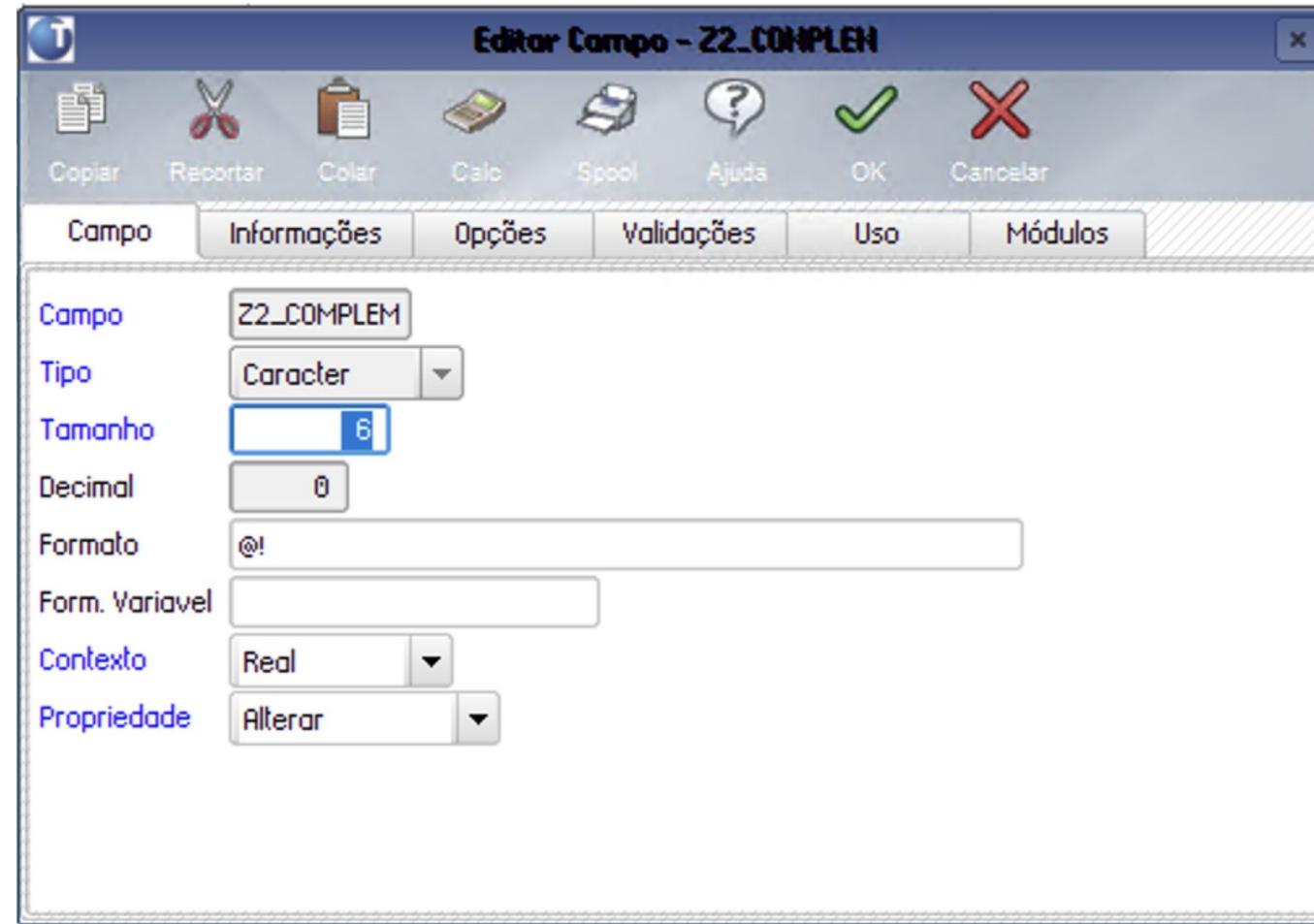
Hands on – Protheus



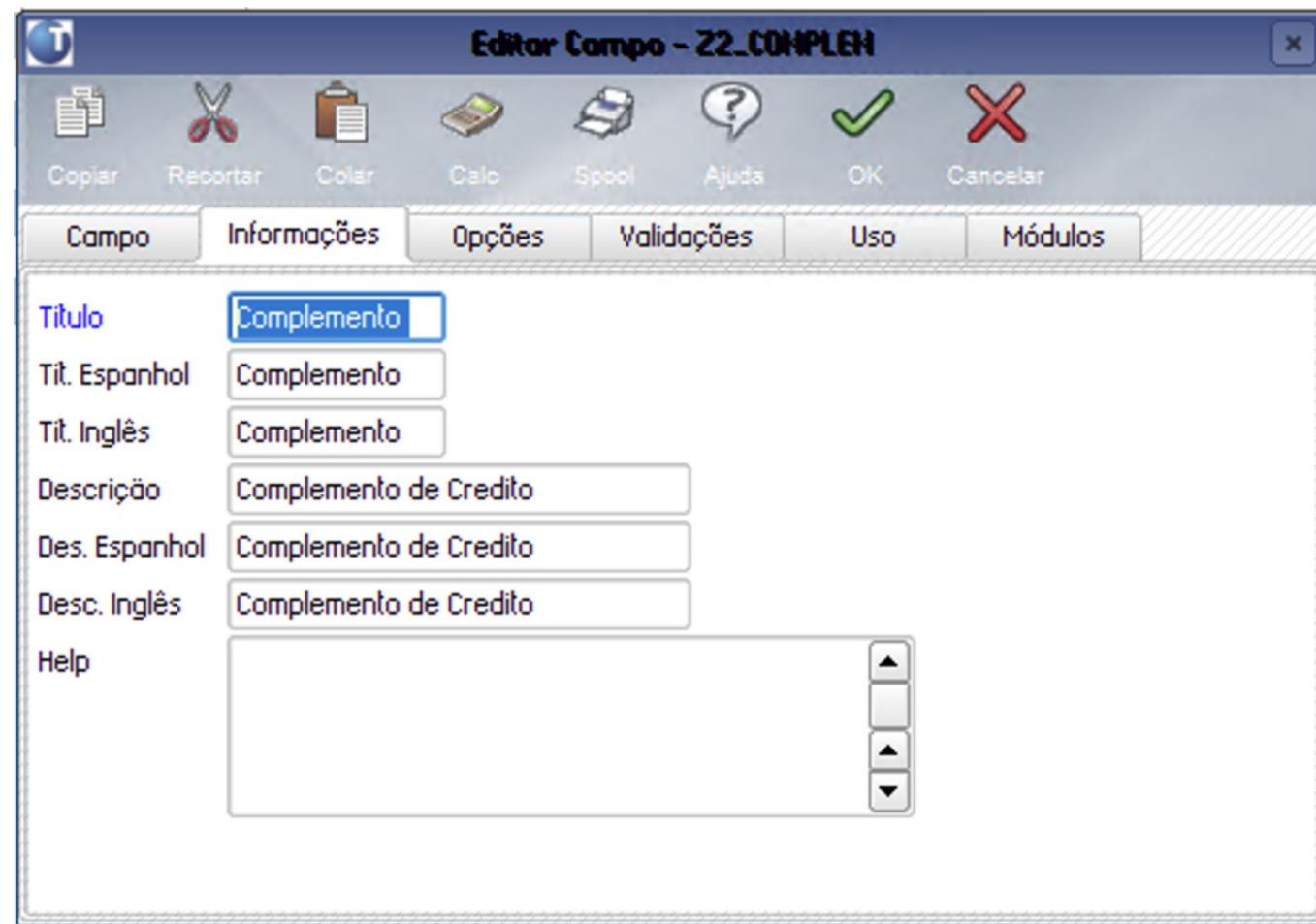
Hands on – Protheus



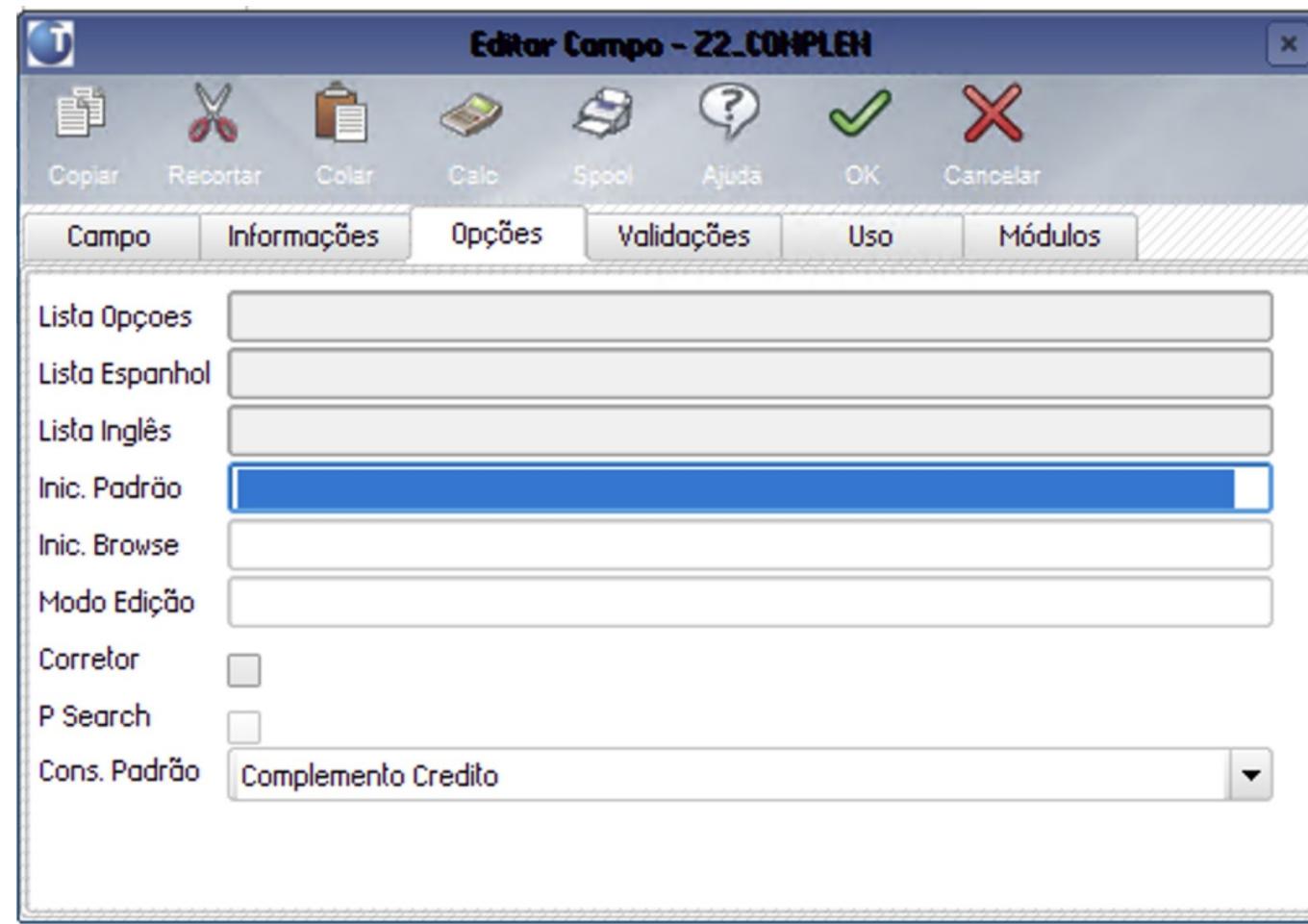
Hands on – Protheus



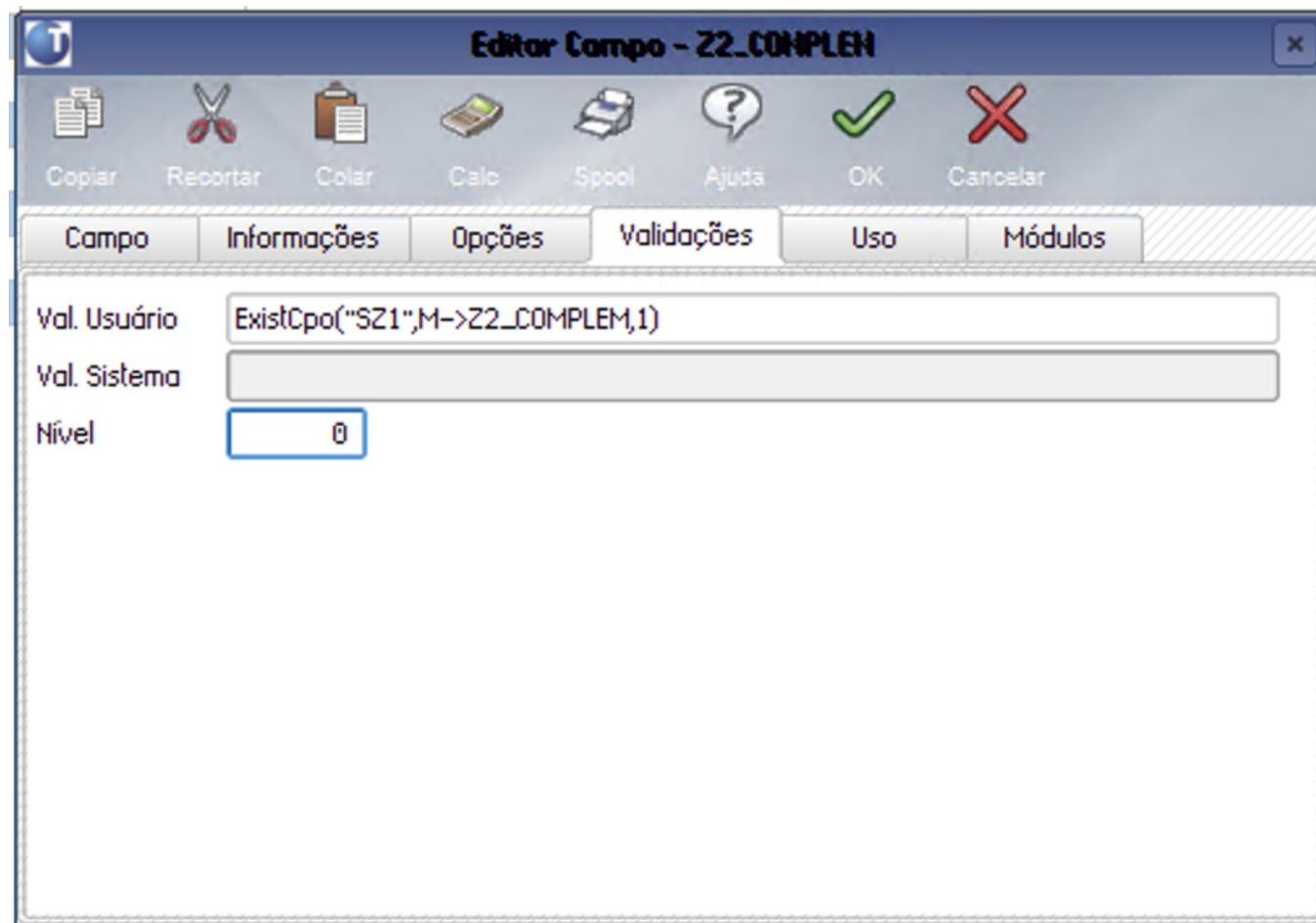
Hands on – Protheus



Hands on – Protheus

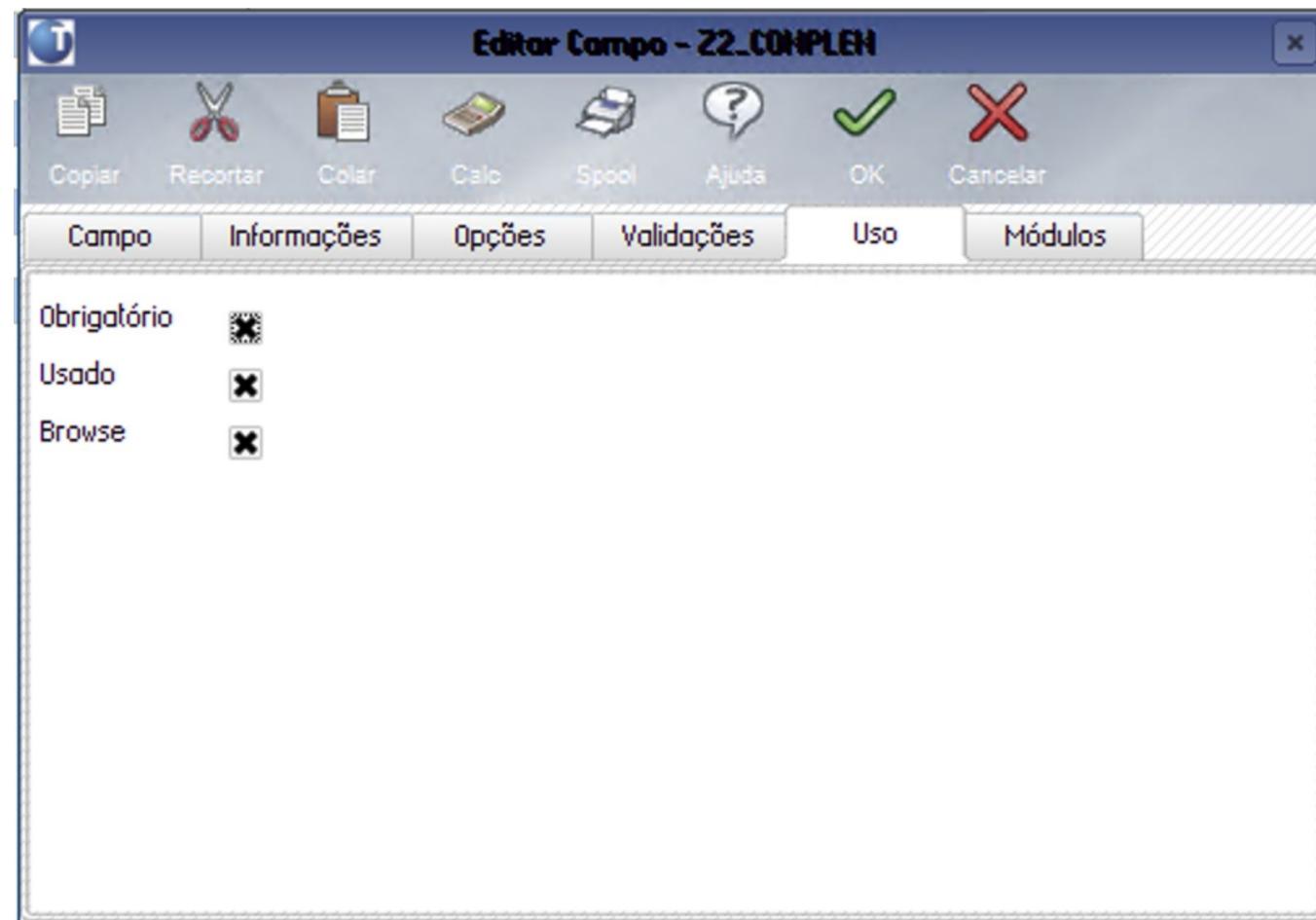


Hands on – Protheus

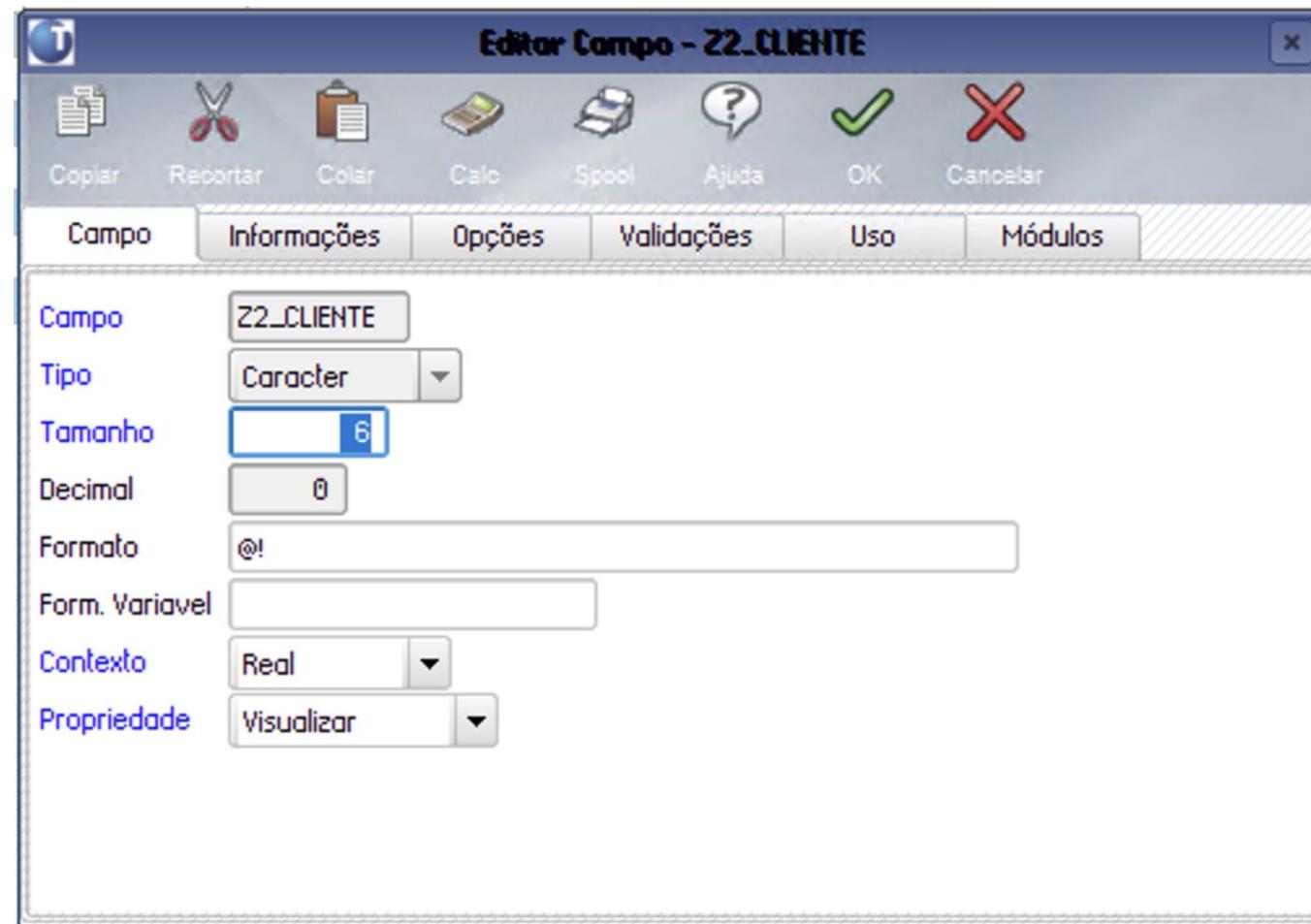


```
ExistCpo ("SZ1", M->Z2_COMPLEM, 1)
```

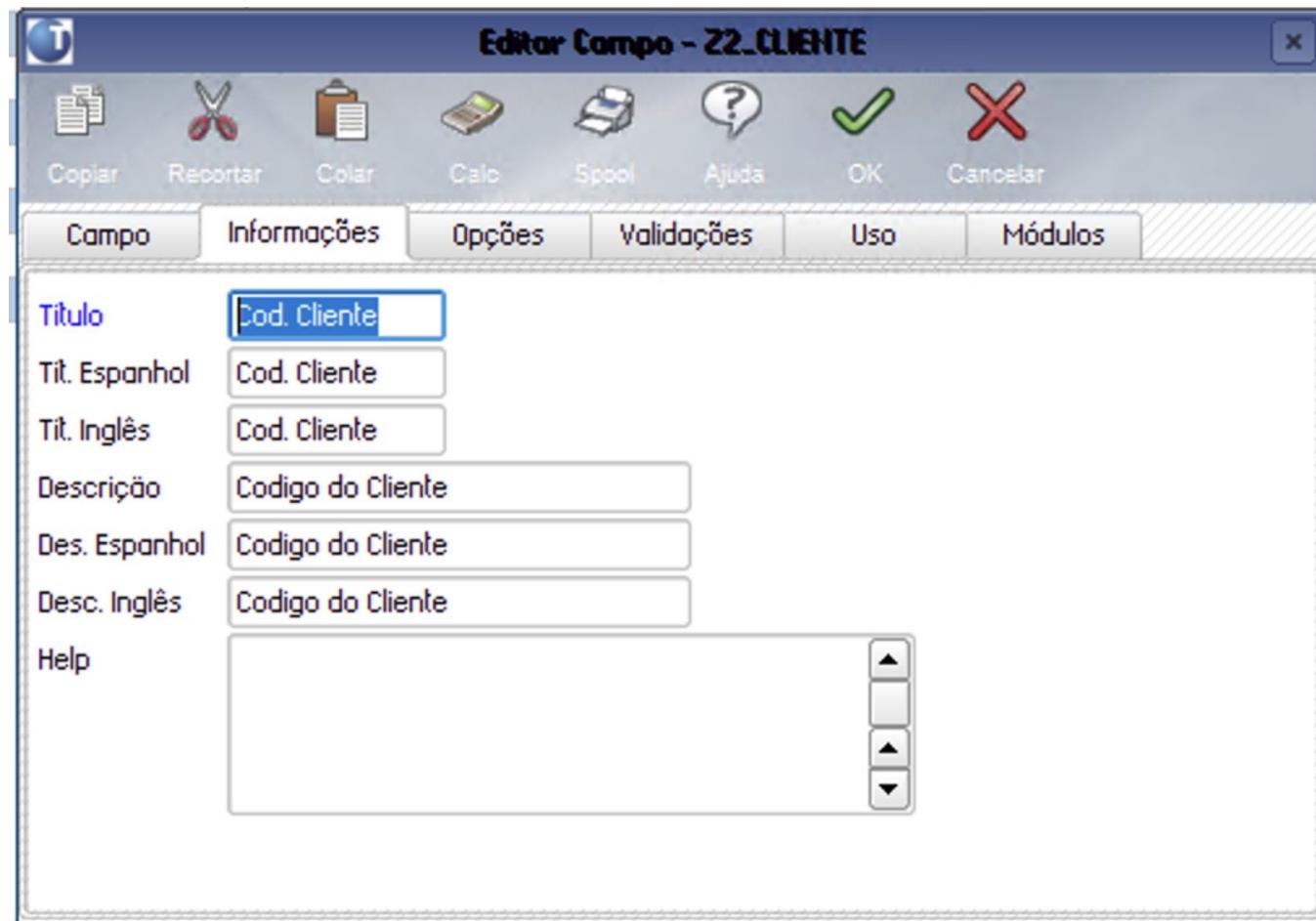
Hands on – Protheus



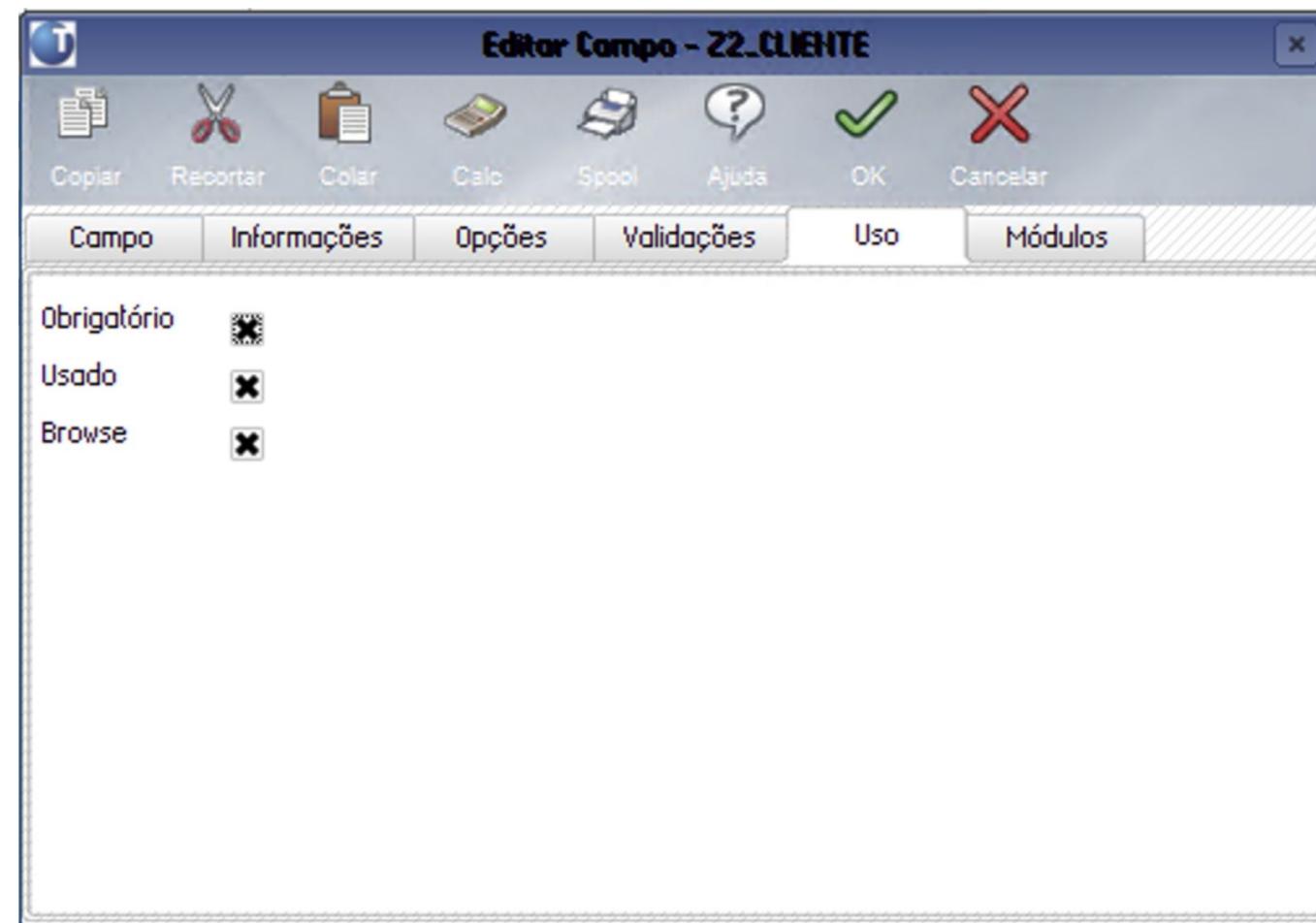
Hands on – Protheus



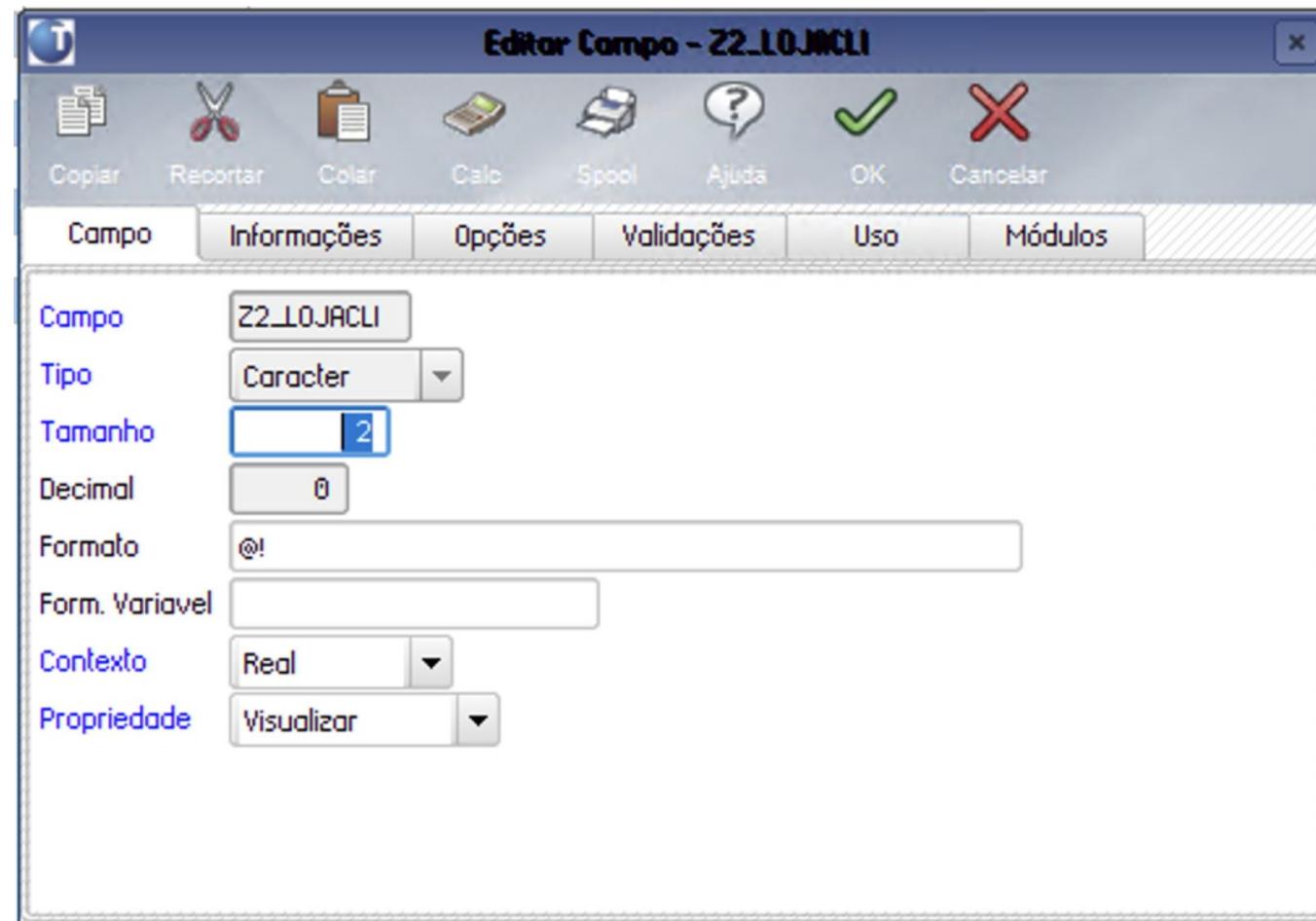
Hands on – Protheus



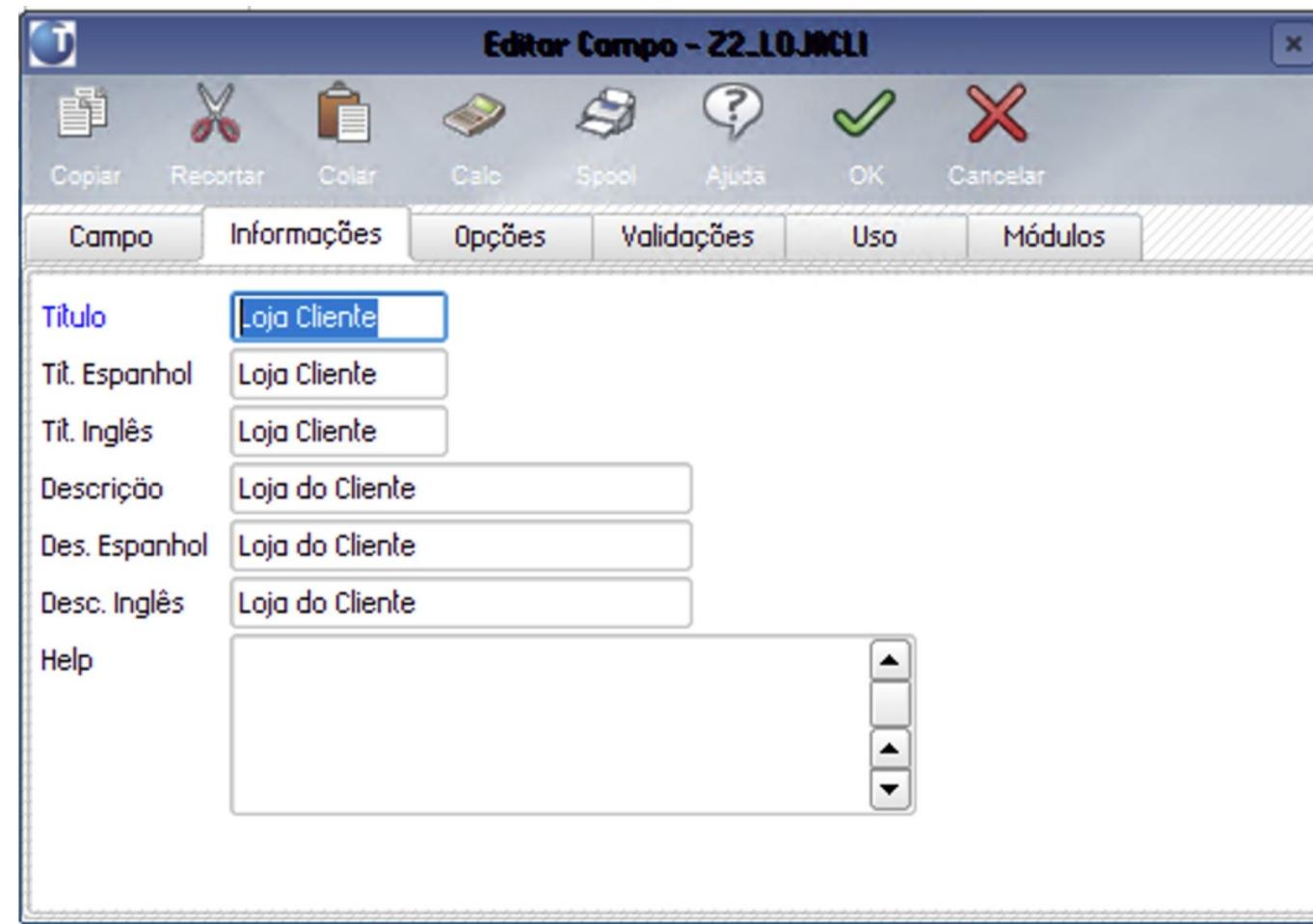
Hands on – Protheus



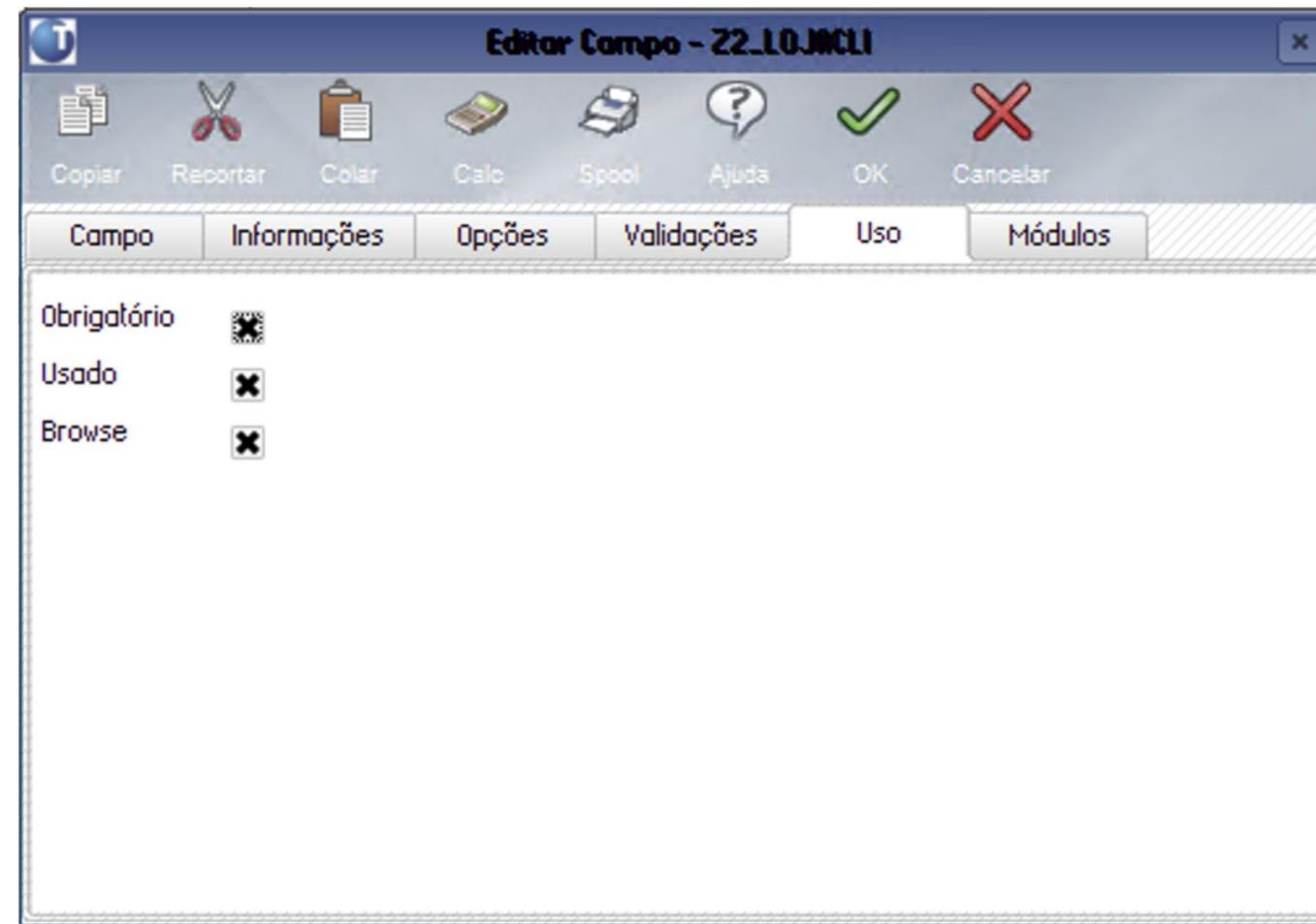
Hands on – Protheus



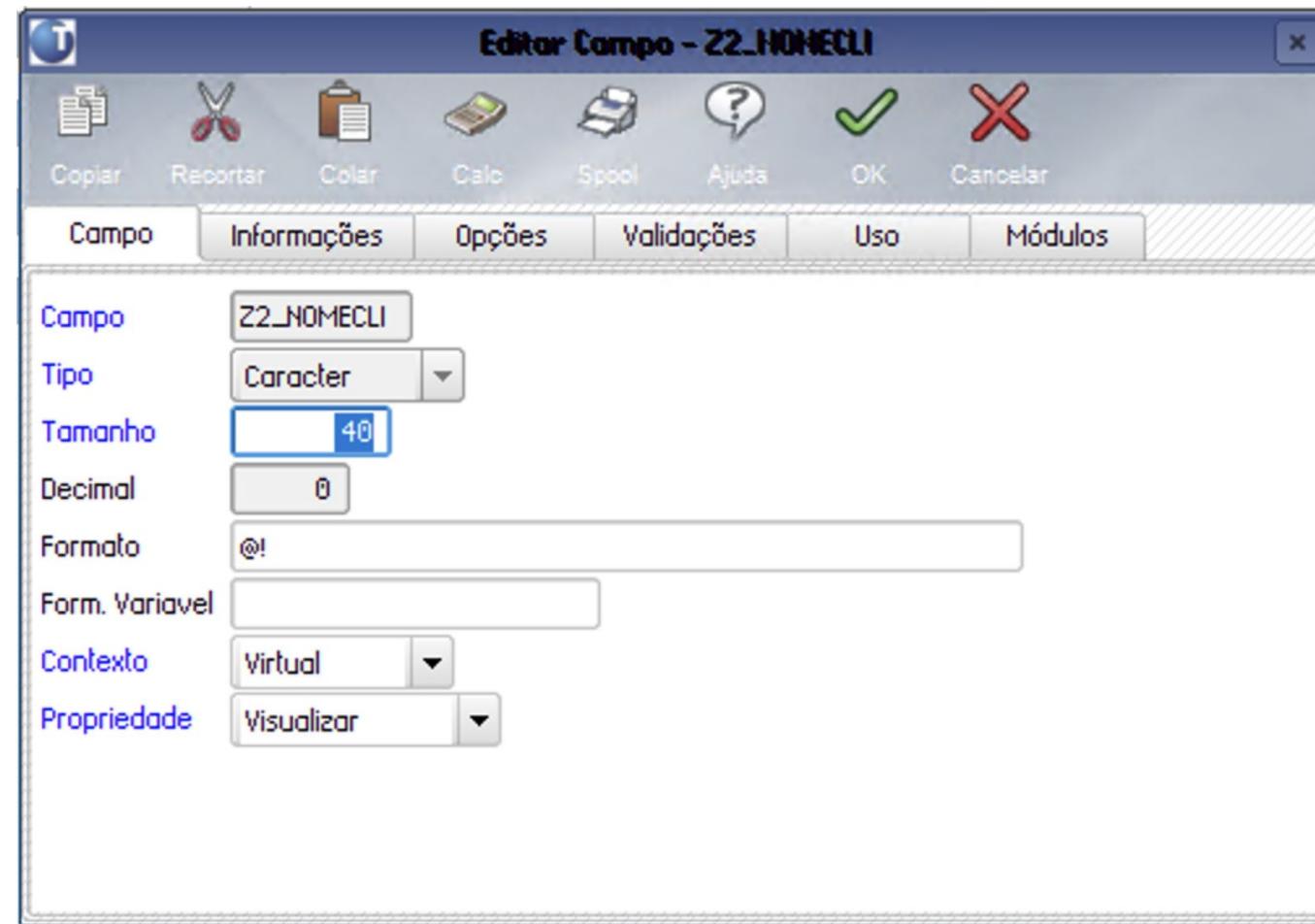
Hands on – Protheus



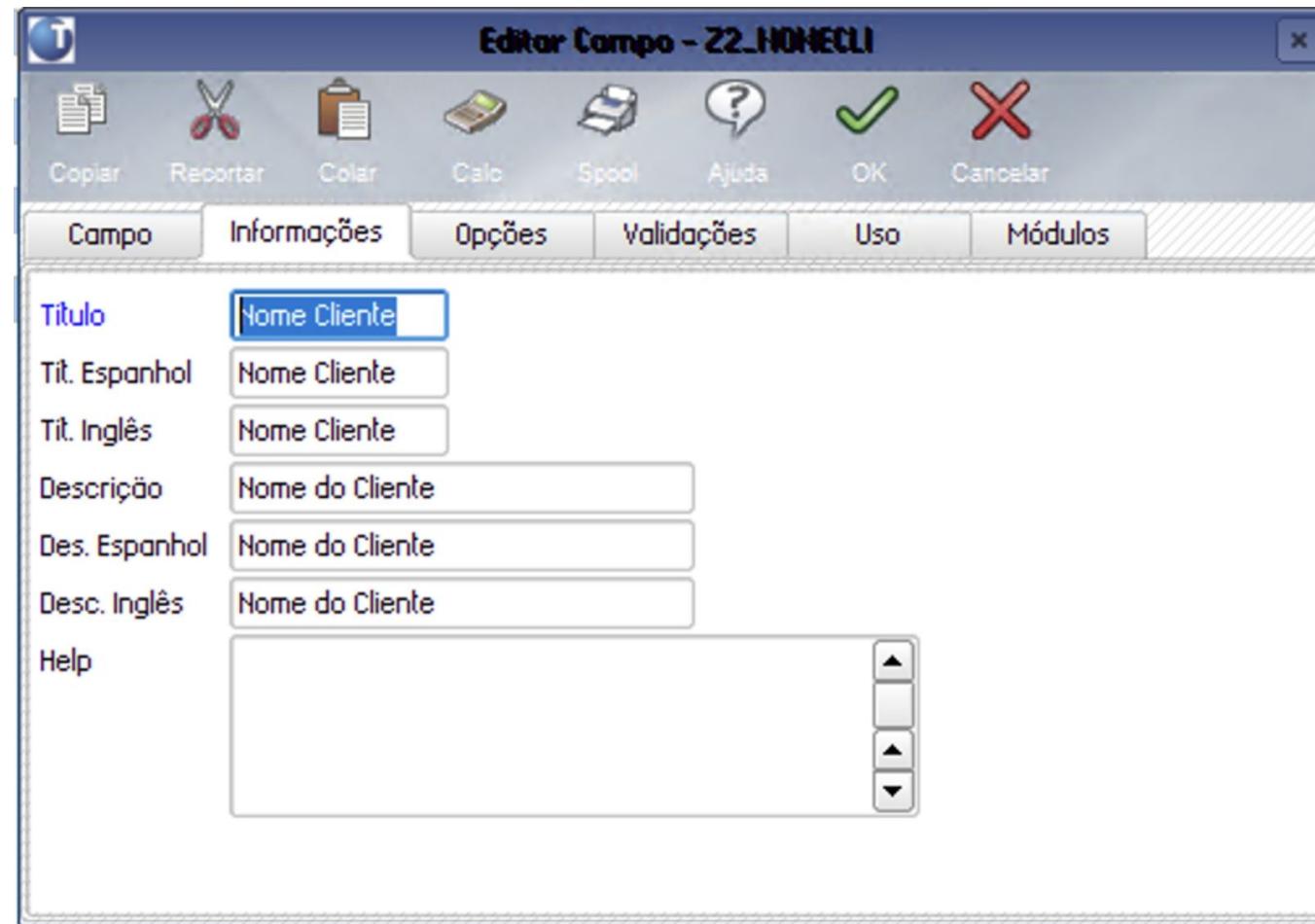
Hands on – Protheus



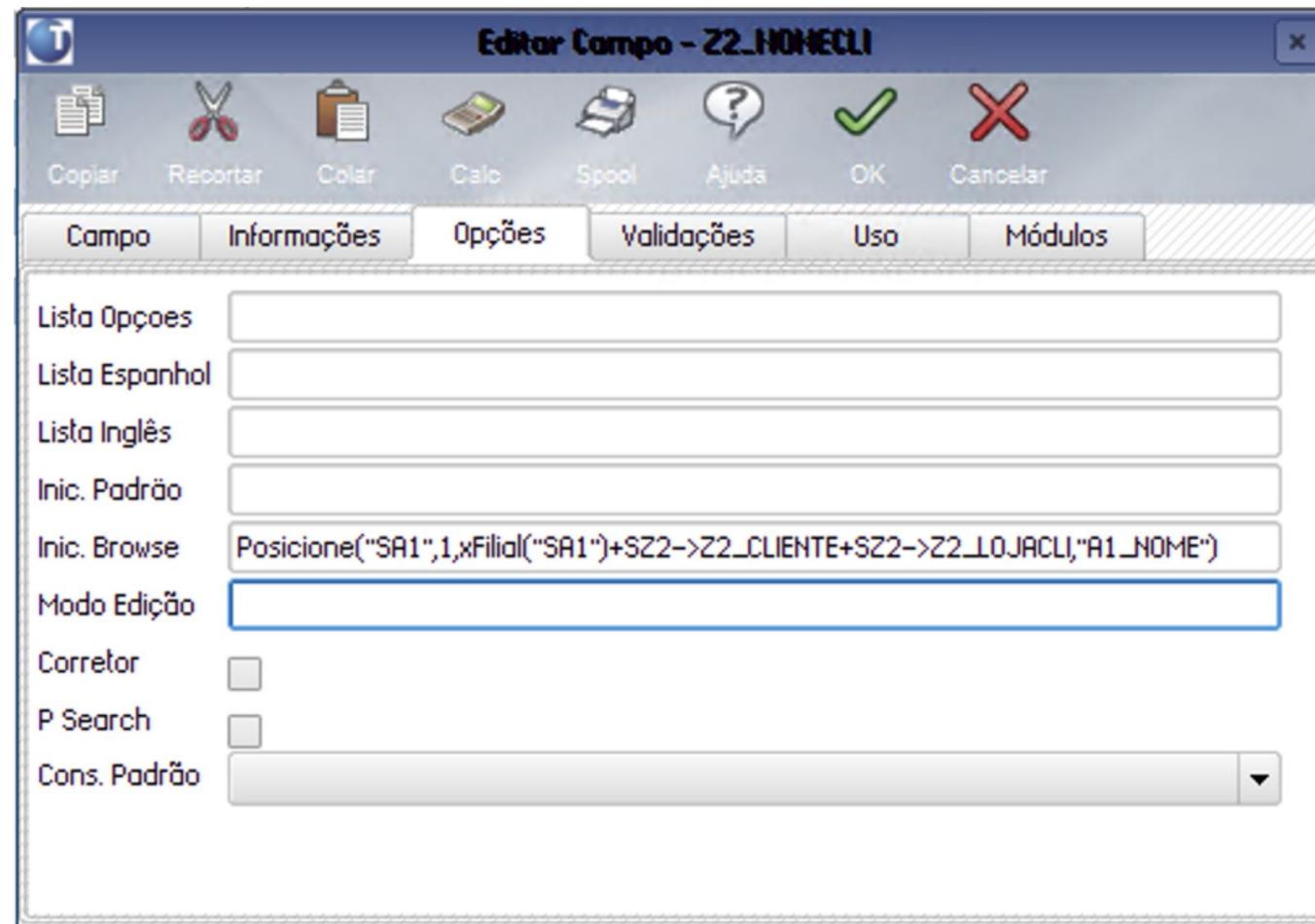
Hands on – Protheus



Hands on – Protheus

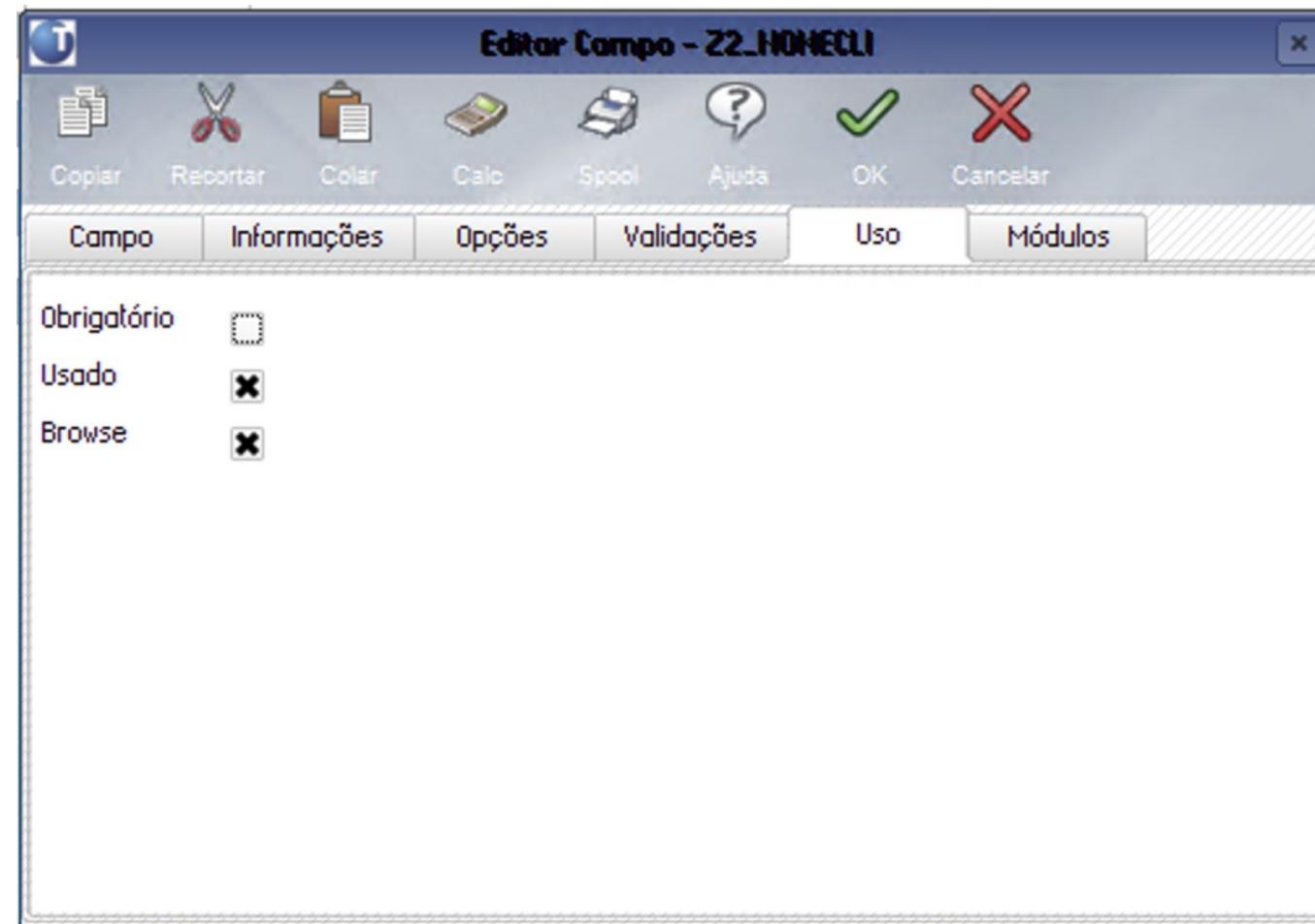


Hands on – Protheus

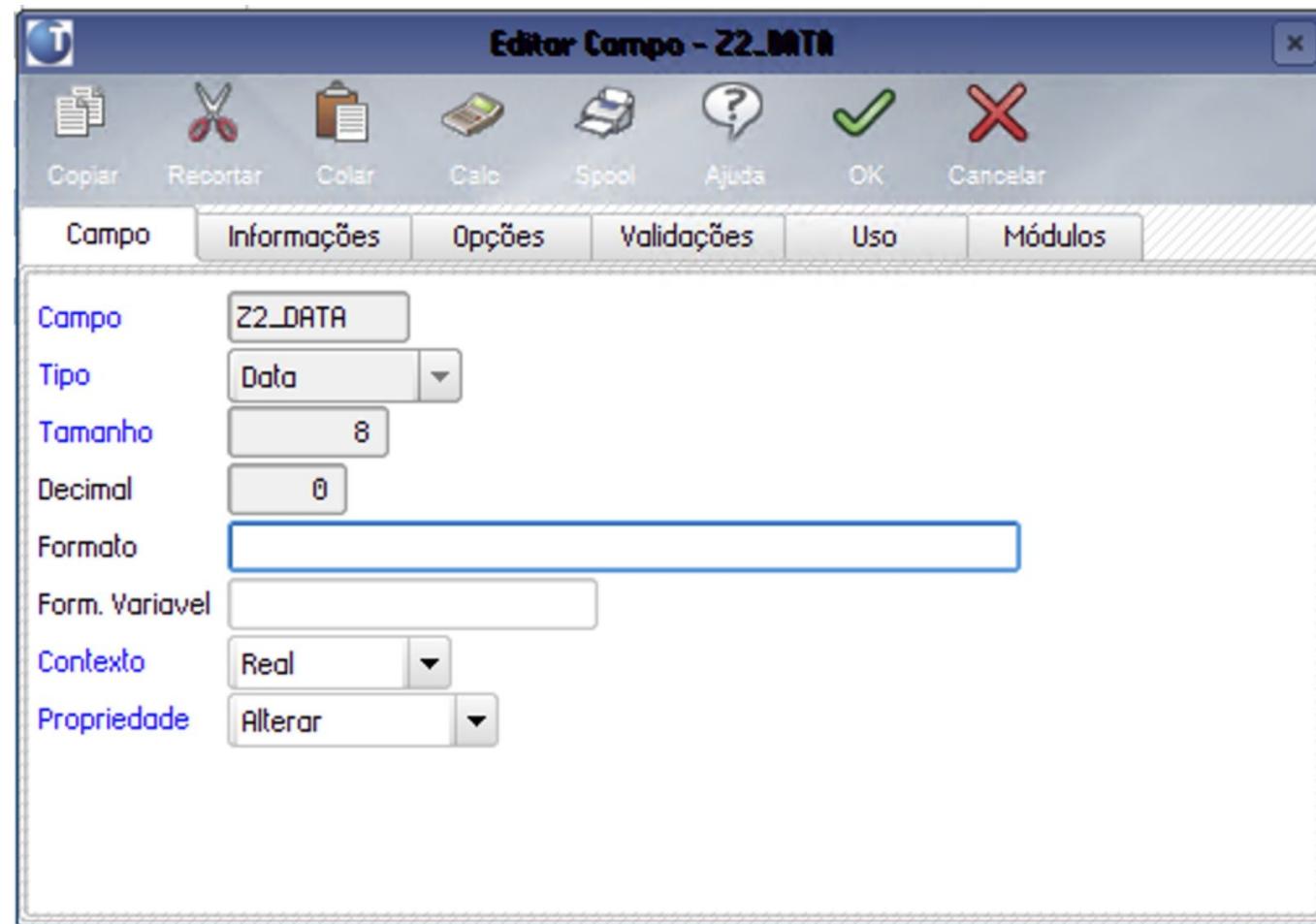


Posicione("SA1",1,xFilial("SA1")+SZ2->Z2_CLIENTE+SZ2->Z2_LOJACLI,"A1_NOME")

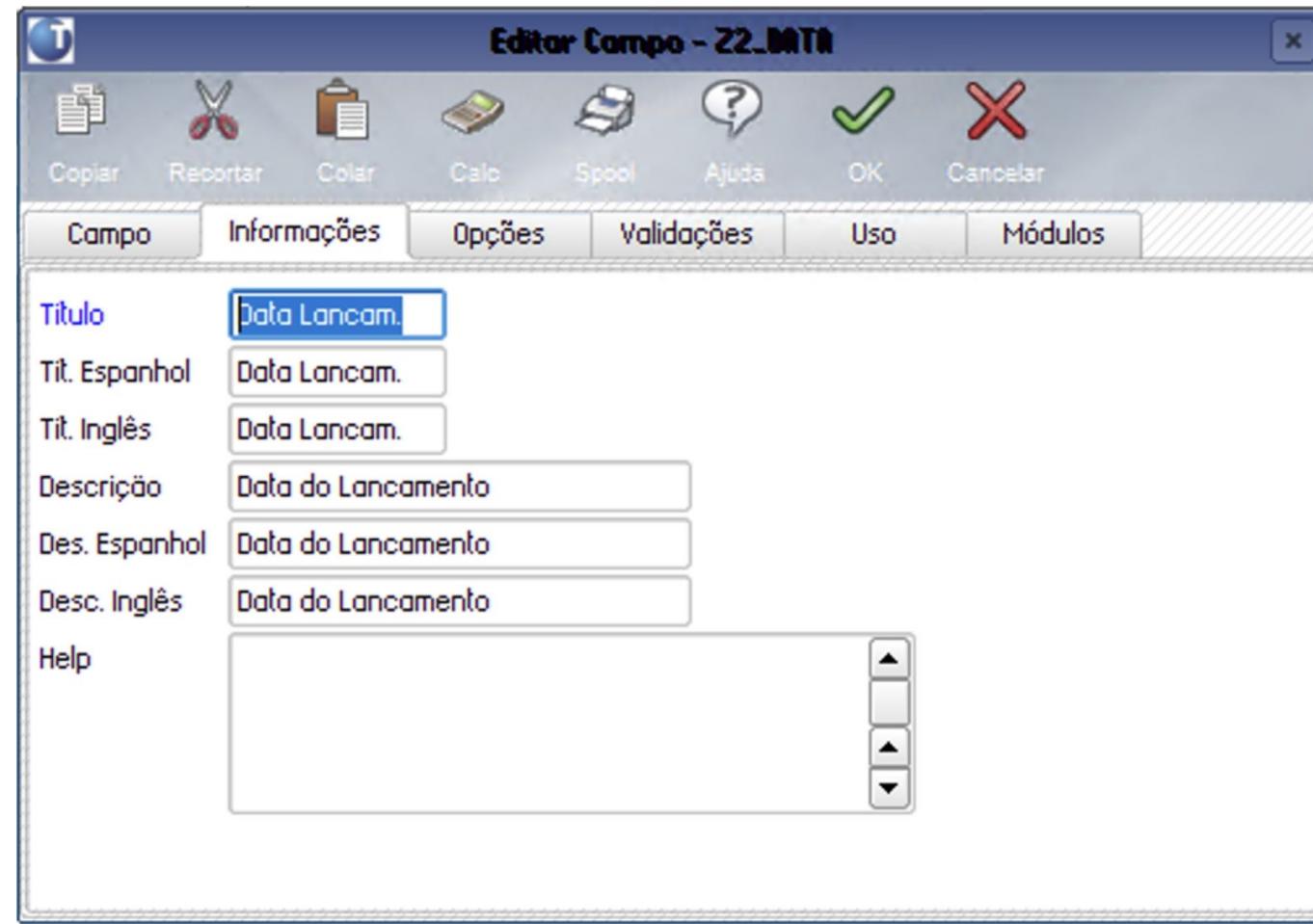
Hands on – Protheus



Hands on – Protheus

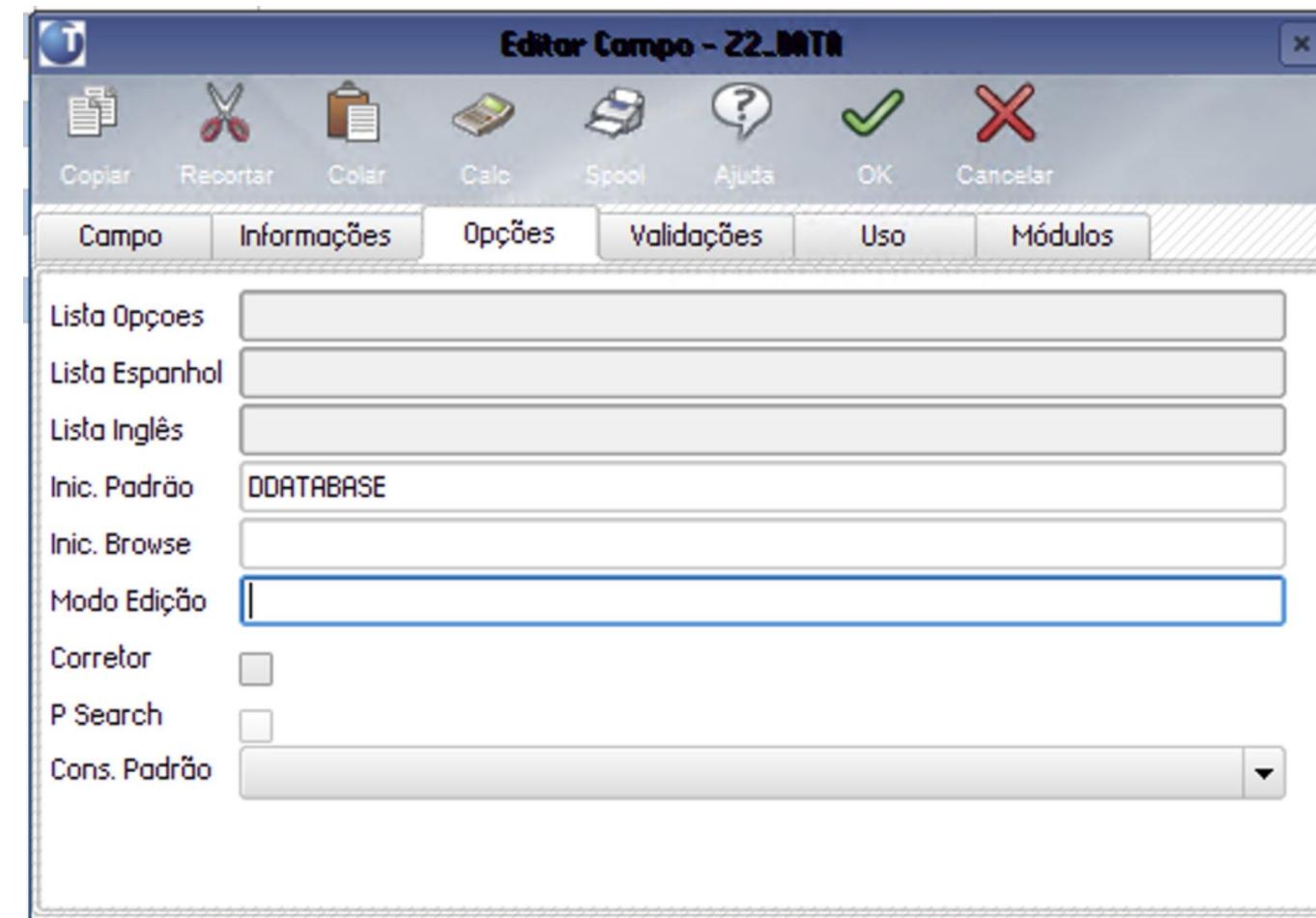


Hands on – Protheus

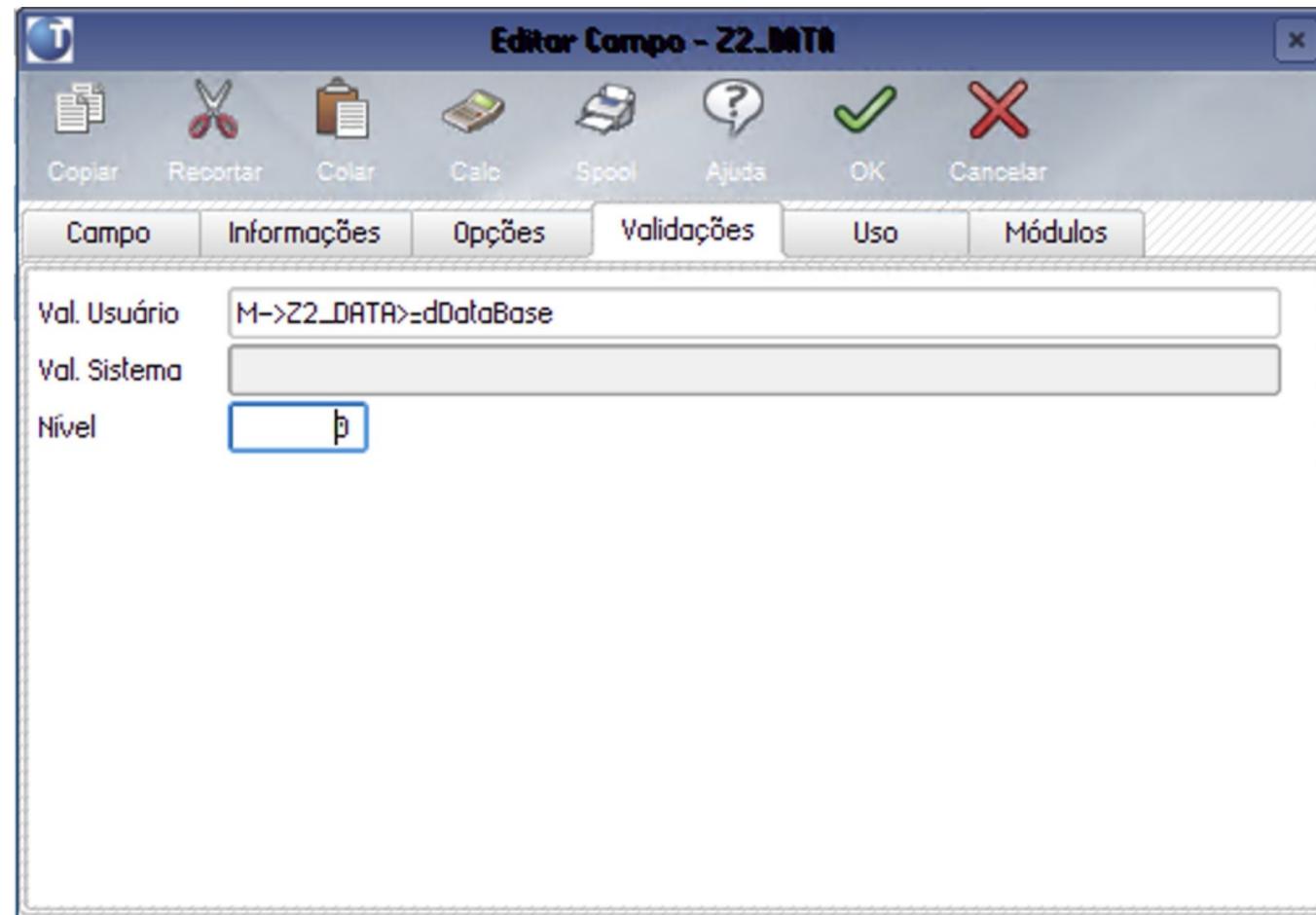




Hands on – Protheus

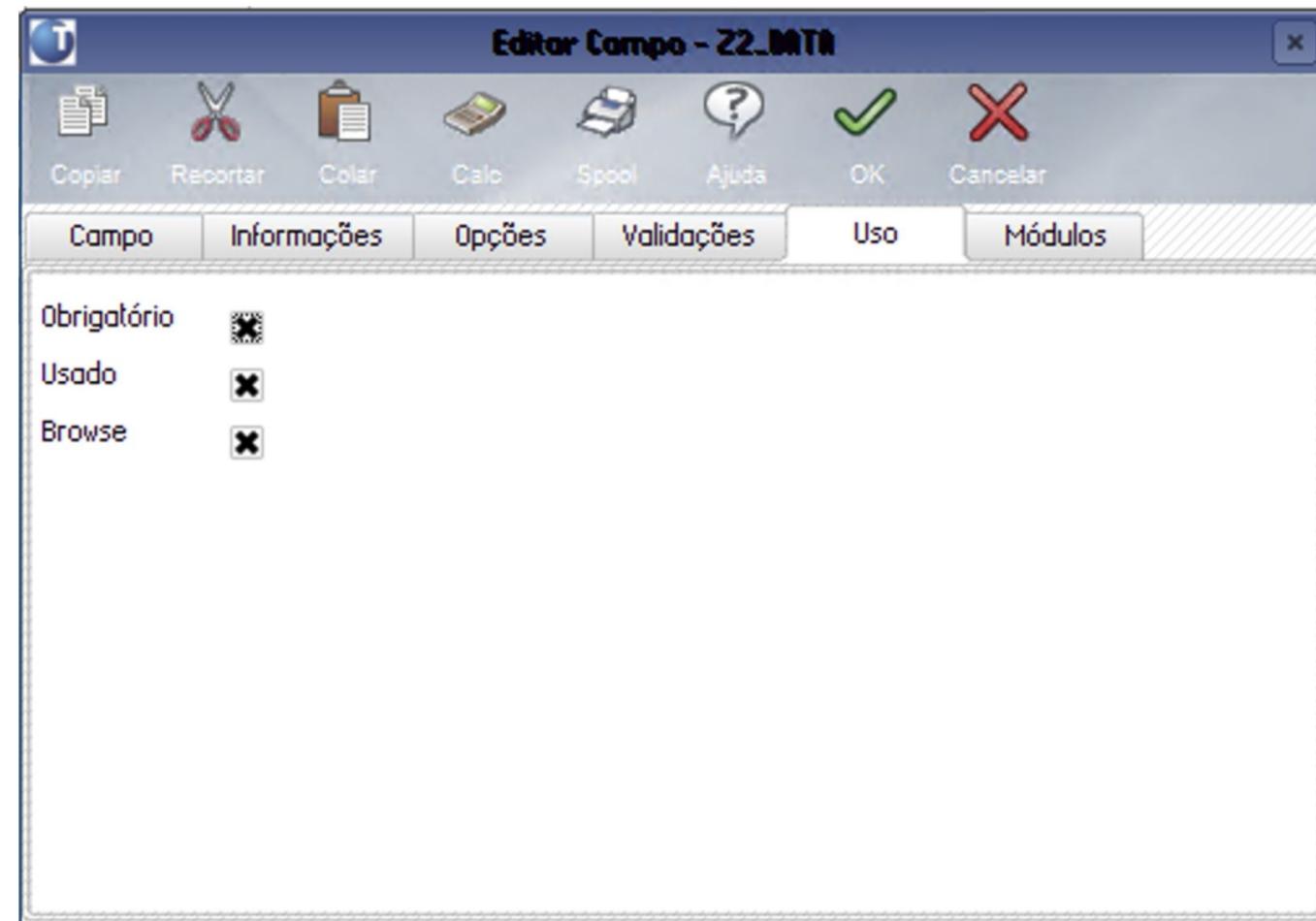


Hands on – Protheus

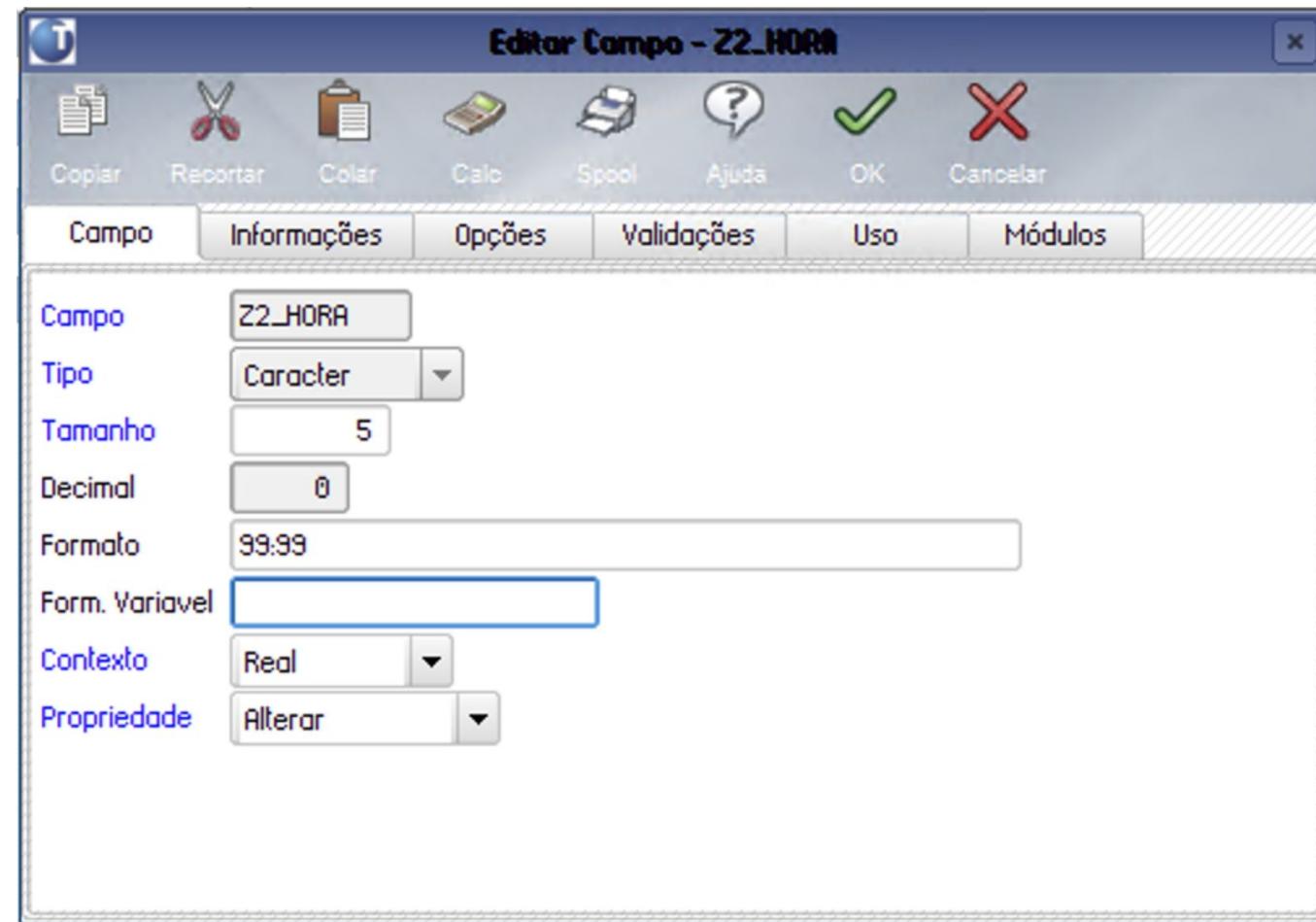


M->Z2_DATA>=dDataBase

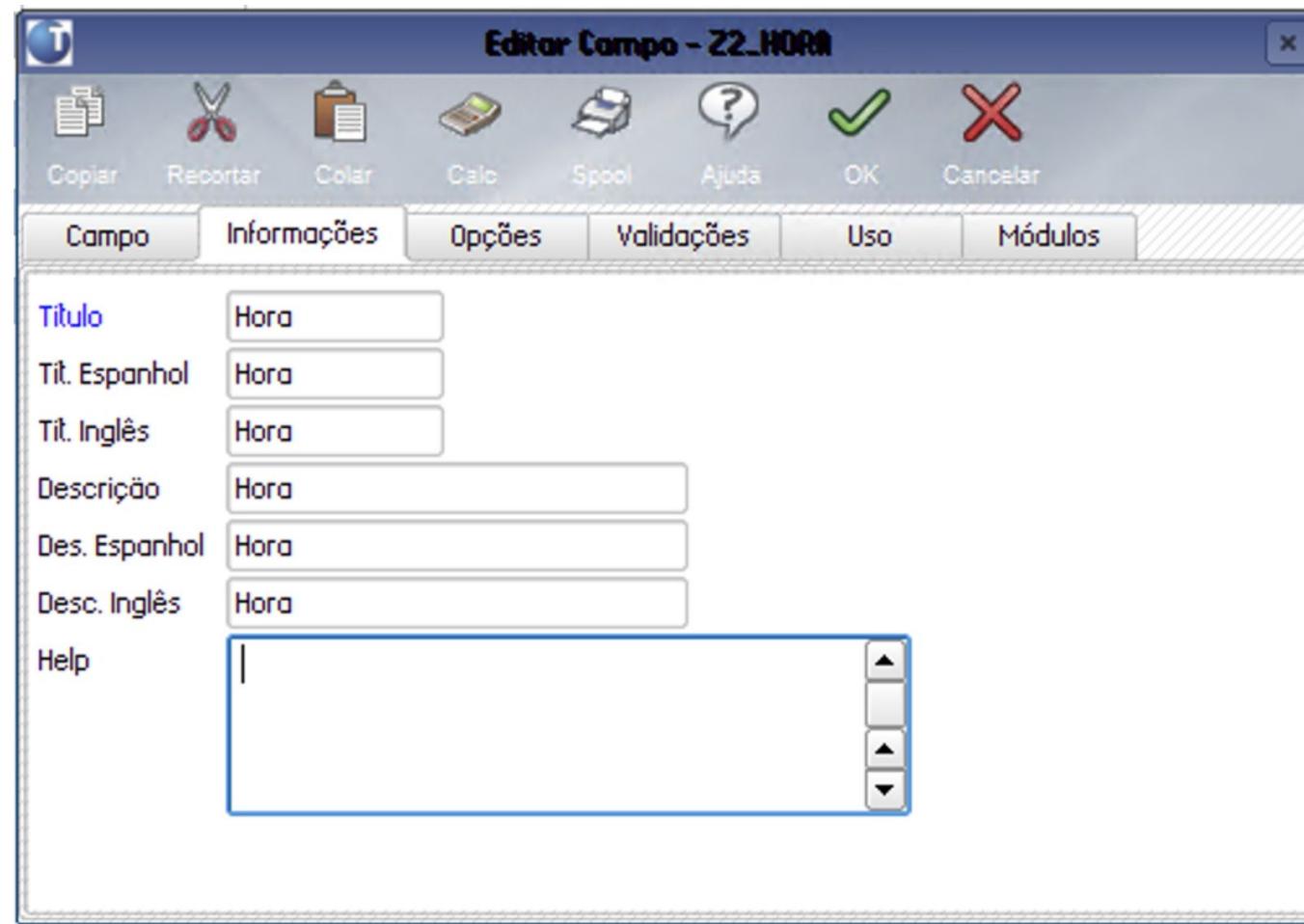
Hands on – Protheus



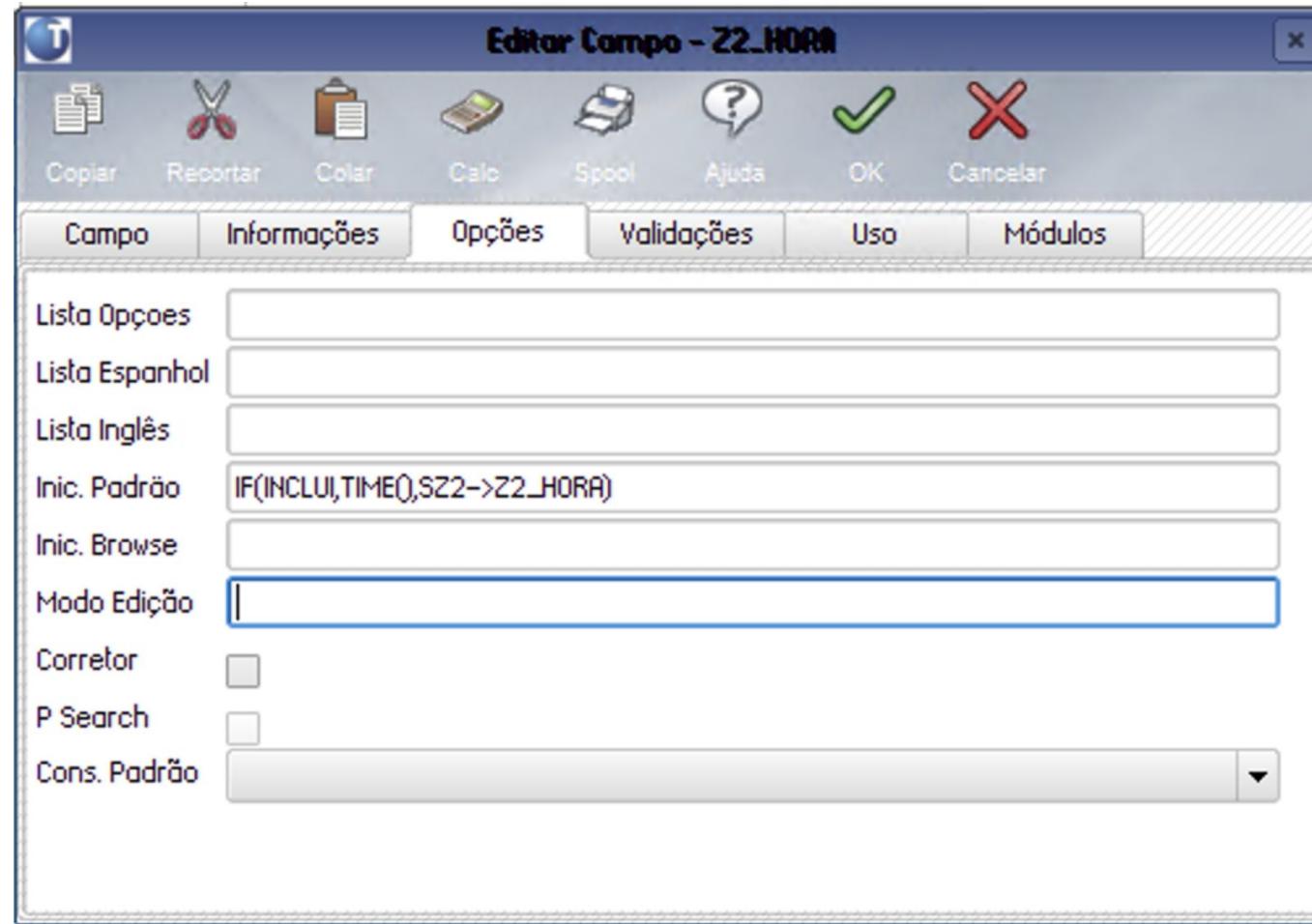
Hands on – Protheus



Hands on – Protheus

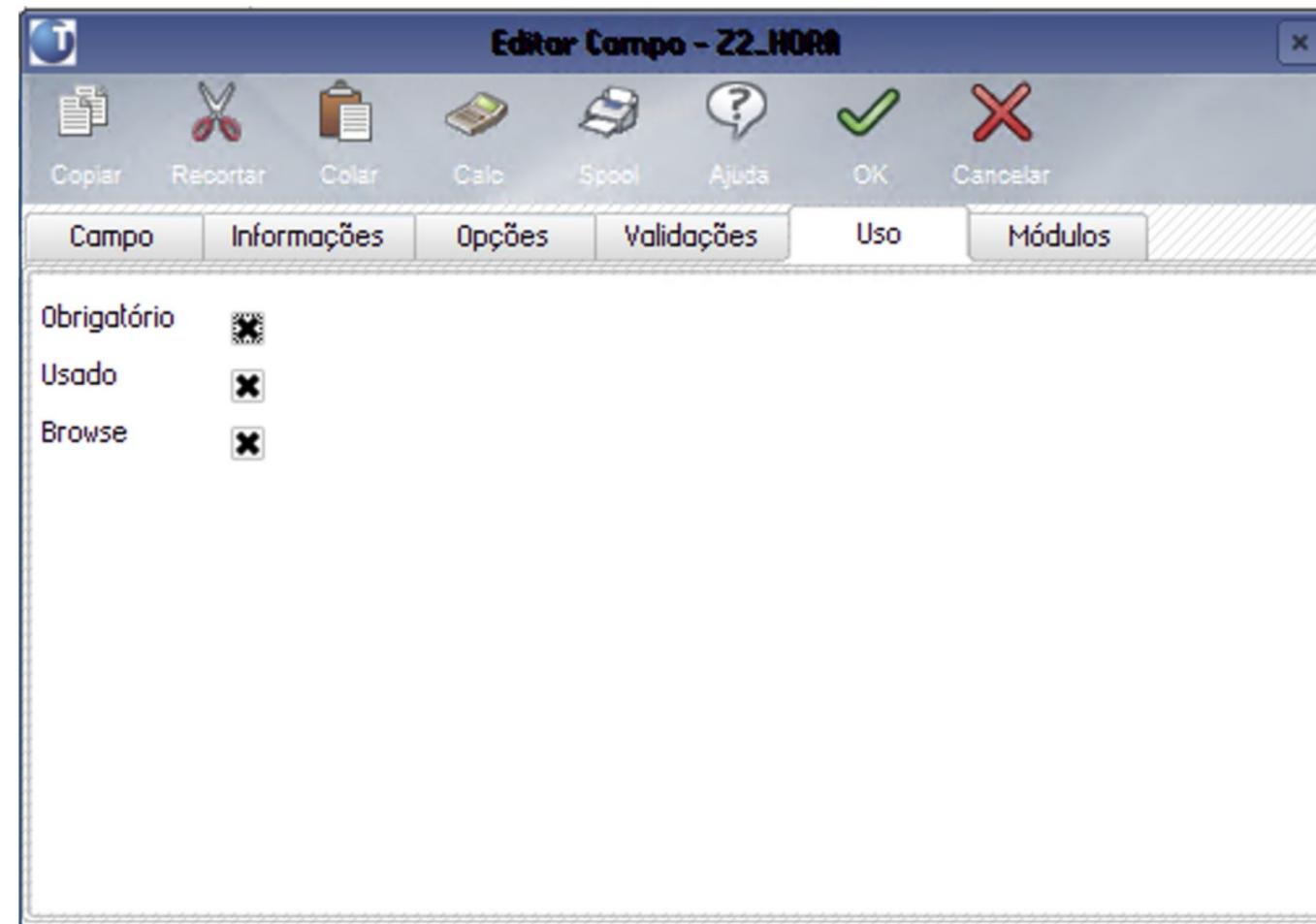


Hands on – Protheus

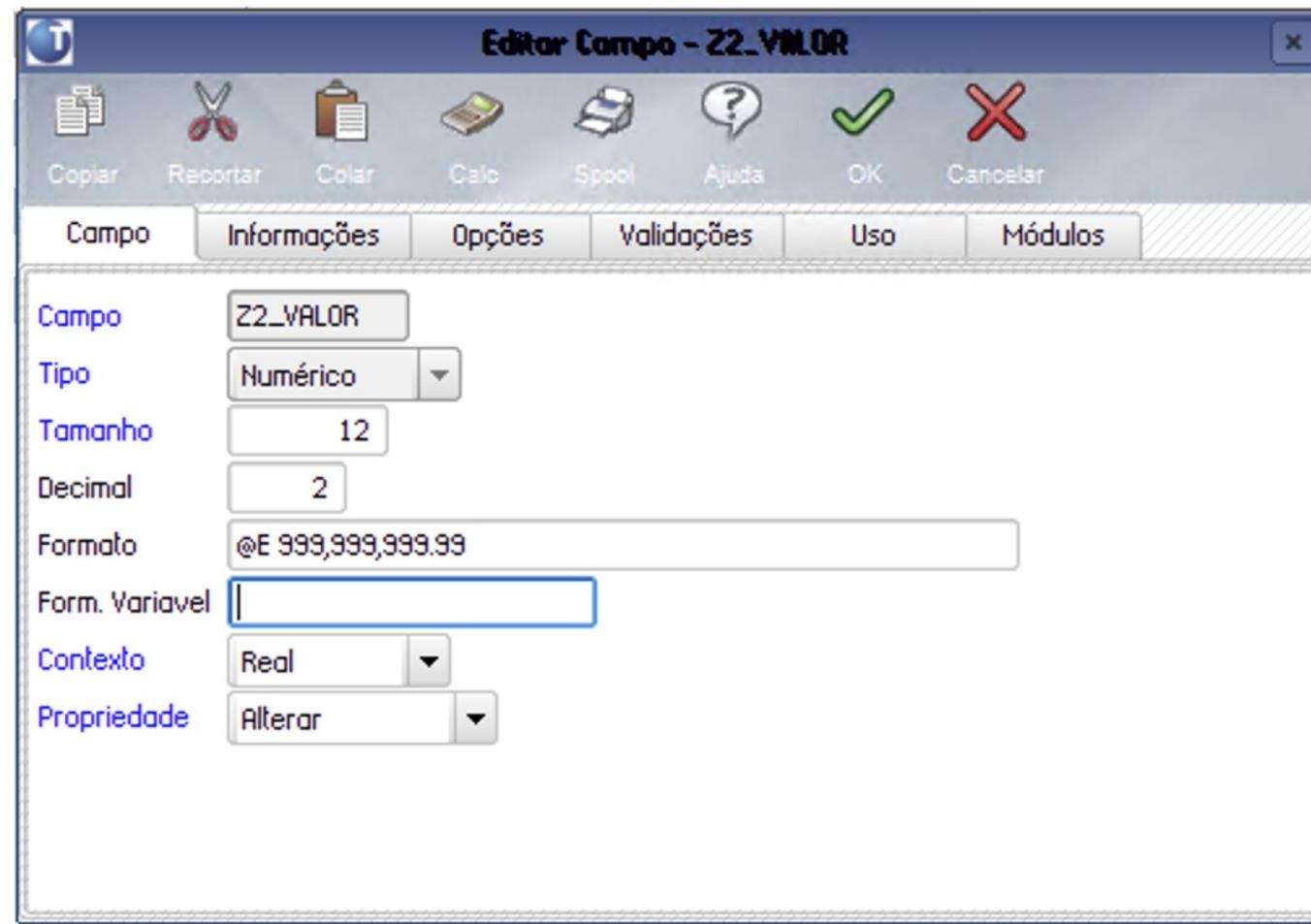


`IF (INCLUI, TIME (), SZ2->Z2_HORA)`

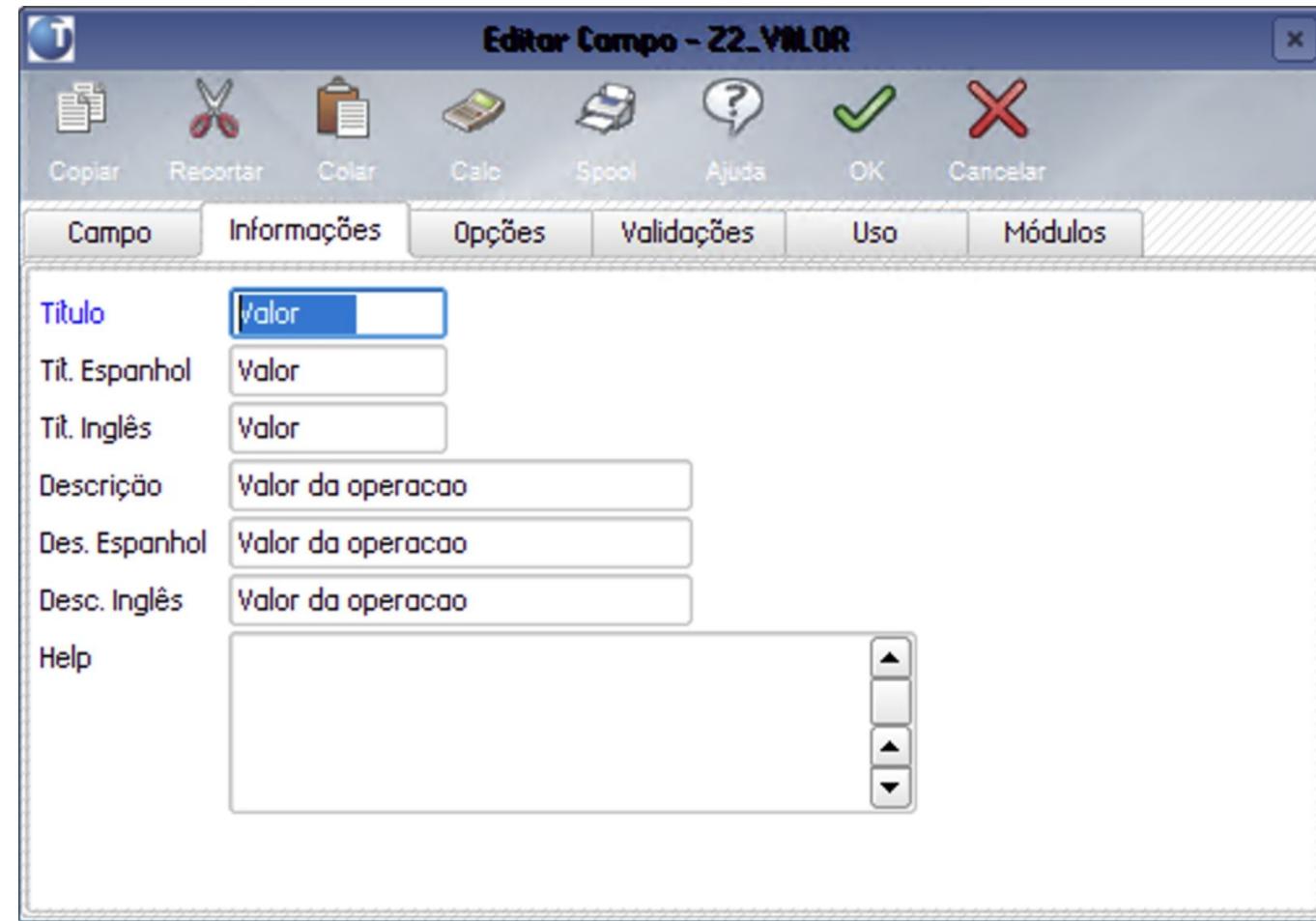
Hands on – Protheus



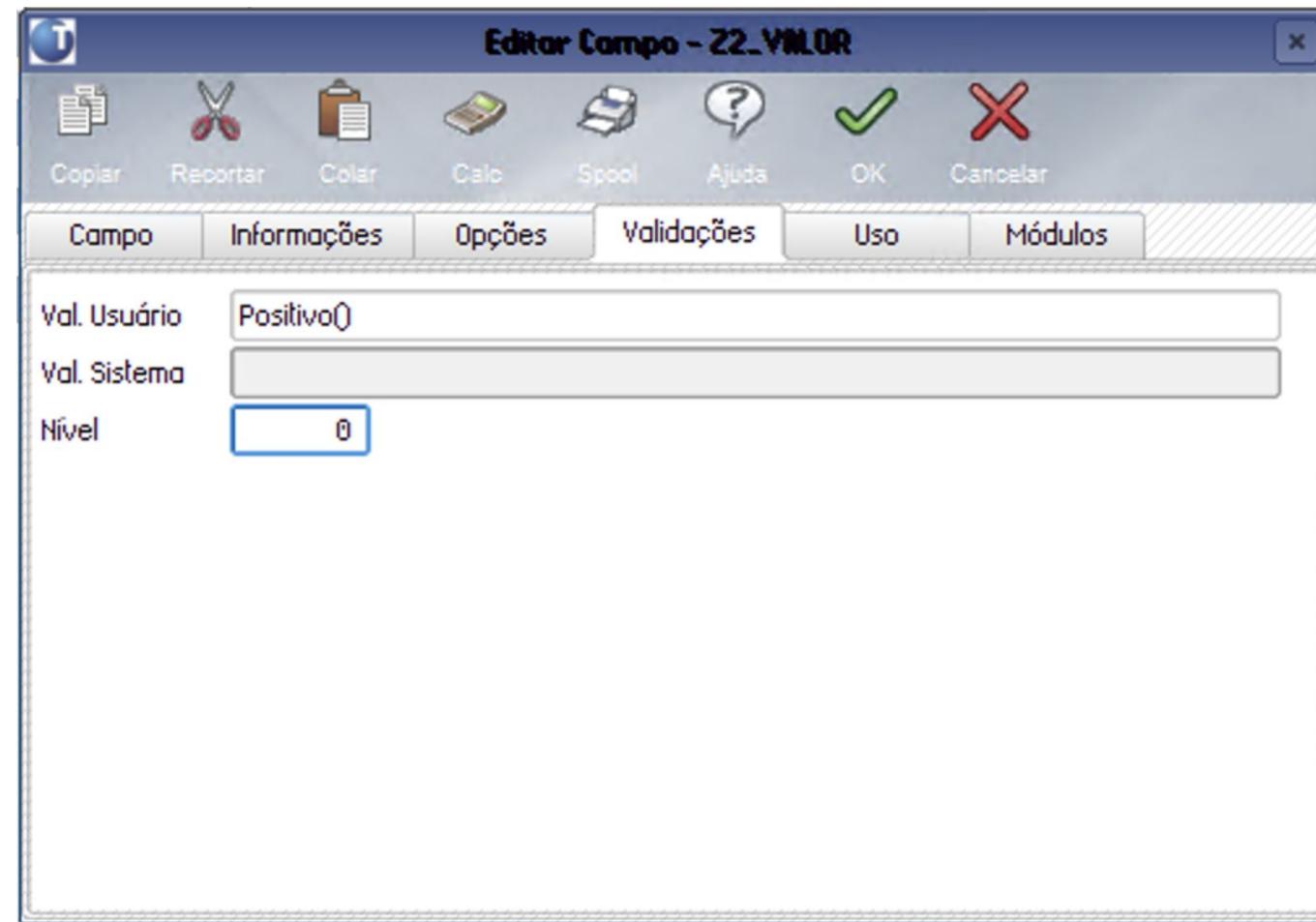
Hands on – Protheus



Hands on – Protheus

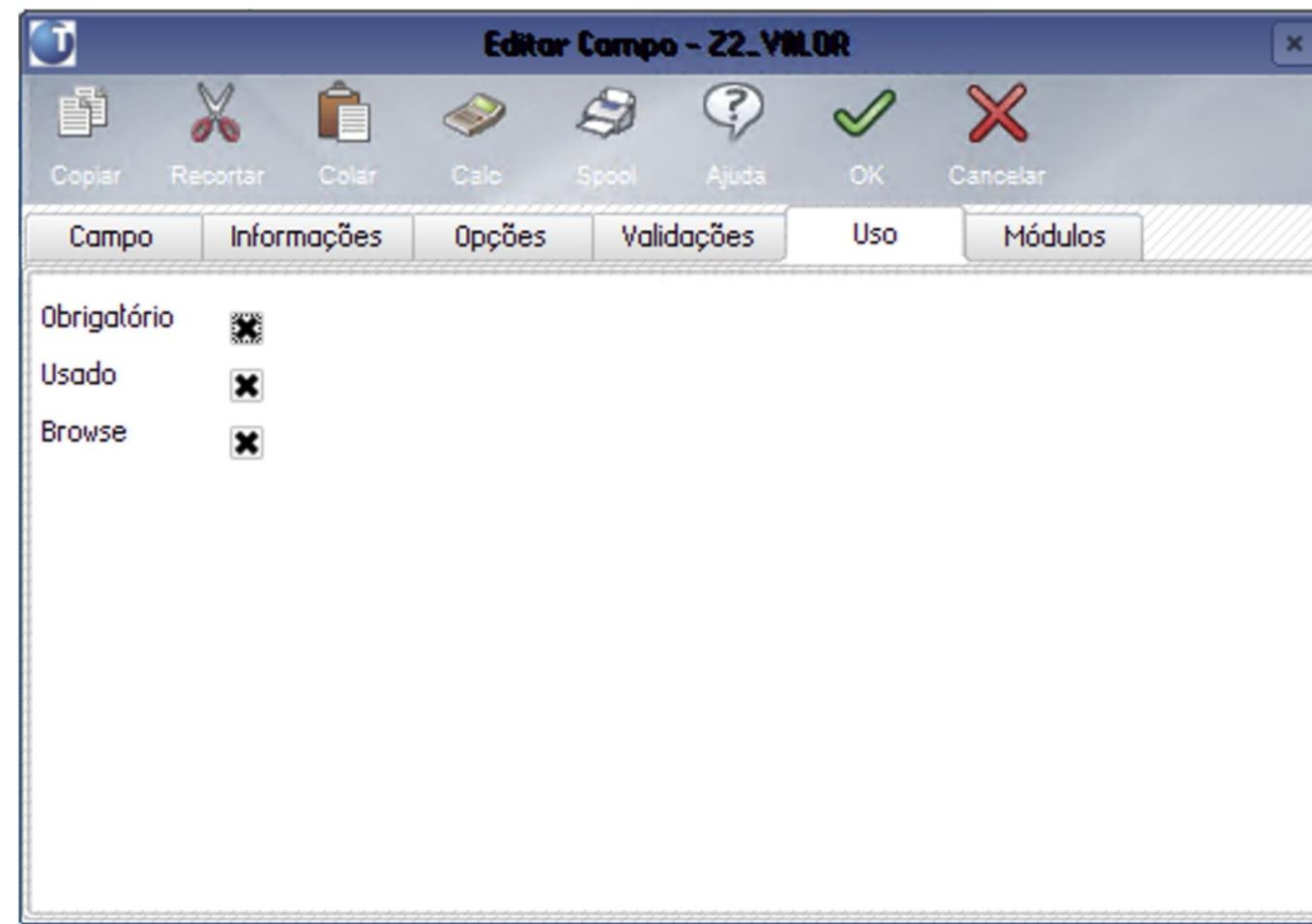


Hands on – Protheus



Positivo()

Hands on – Protheus



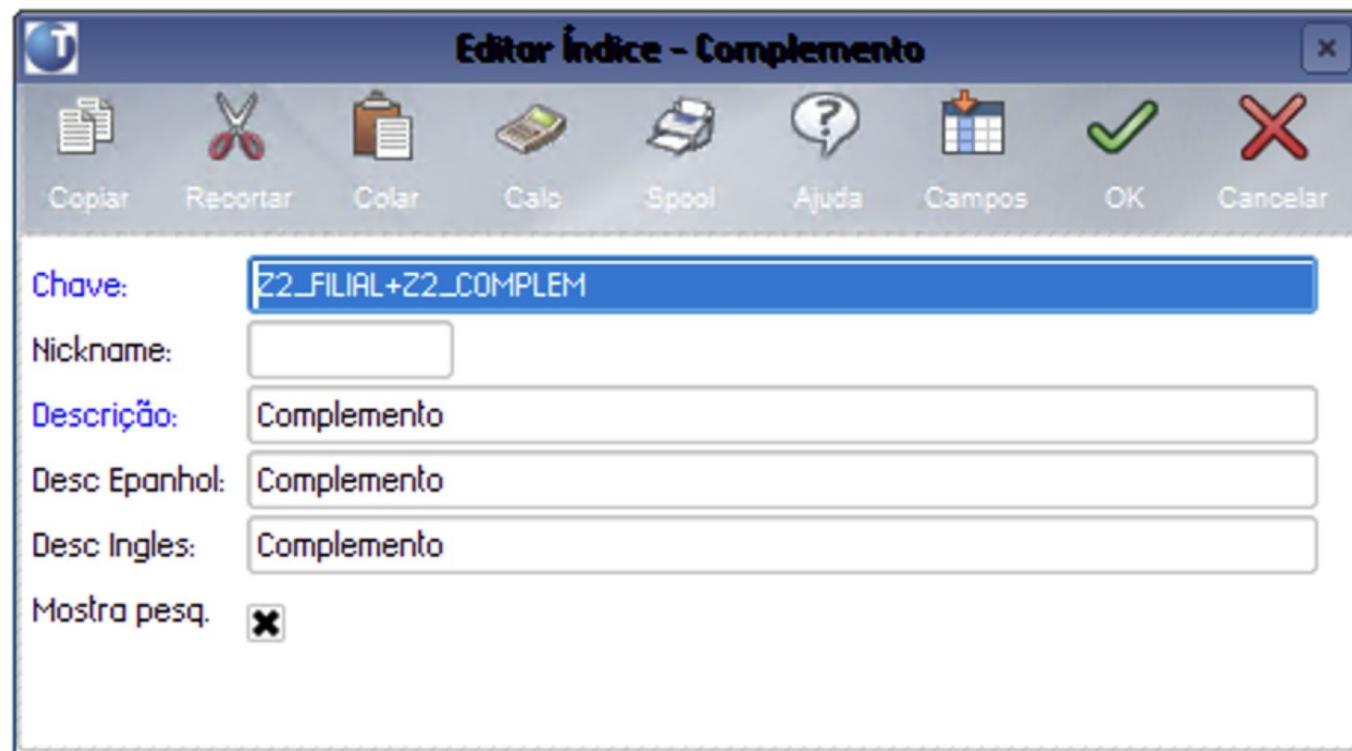
Hands on – Protheus

- Criar índices para a tabela SZ2

The screenshot shows the 'Editar Tabela de Dados - SZ2' (Edit Data Table - SZ2) interface. The title bar has the title 'Editar Tabela de Dados - SZ2'. The menu bar includes 'Copiar' (Copy), 'Recortar' (Cut), 'Colar' (Paste), 'Calc', 'Spool', 'Ajuda' (Help), 'Confirmar' (Confirm), 'Cancelar' (Cancel), 'Pesquisar' (Search), 'Preview', 'Visualizar' (View), 'Incluir' (Include), 'Editar' (Edit), and 'Excluir' (Delete). The left sidebar shows a tree view under 'Pasta' (Folder) for 'Lancamentos Compl. Credito\Índices': 'Campos', 'Pastas', 'Índices' (highlighted in blue), 'Filtro(s)', and 'Consulta Office'. The main area displays a table with columns 'Orden' (Order), 'Descrição' (Description), and 'Chave' (Key). Two rows are listed:

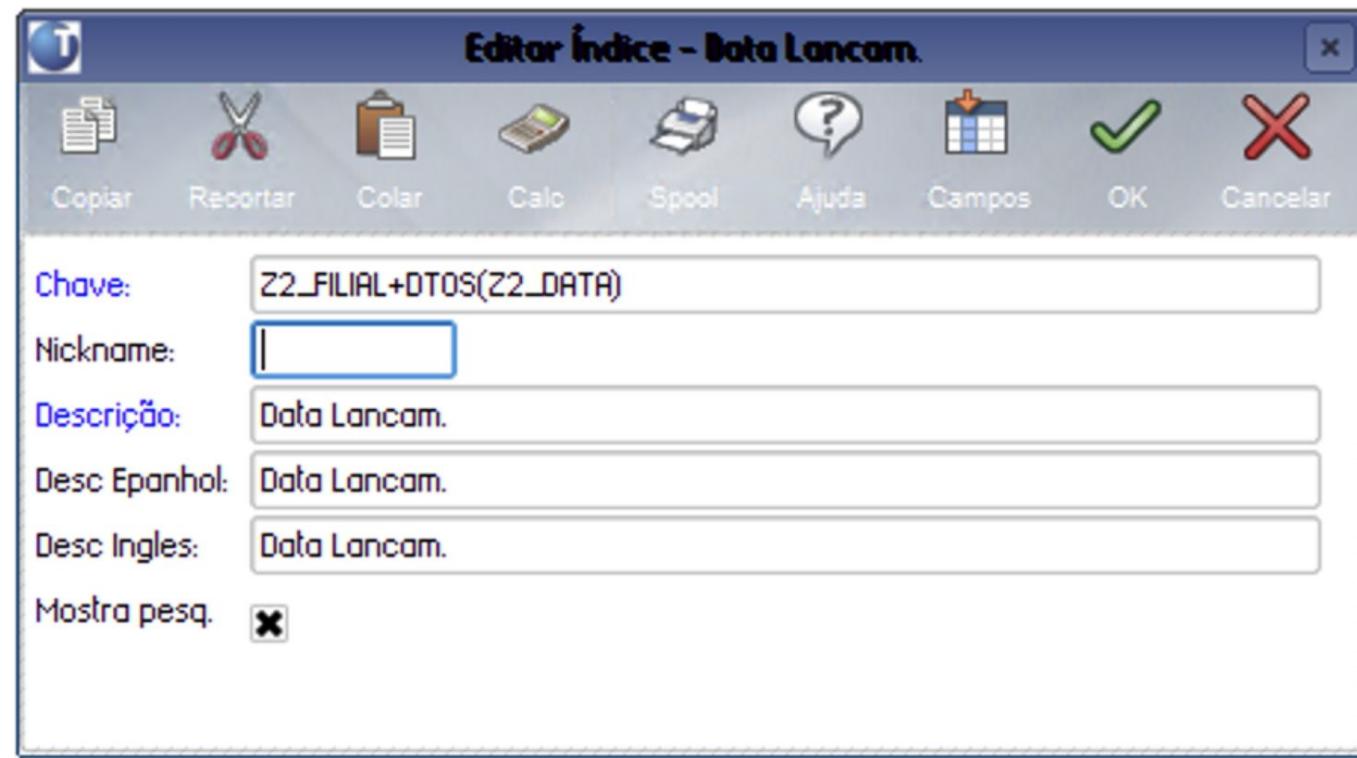
Orden	Descrição	Chave
1	Complemento	Z2_FILIAL+Z2_COMPLEM
2	Data Lancam.	Z2_FILIAL+DTOS(Z2_DATA)

Hands on – Protheus



Hands on – Protheus

Trabalhando com o Protheus



Z2_FILIAL+DTOS (Z2_DATA)

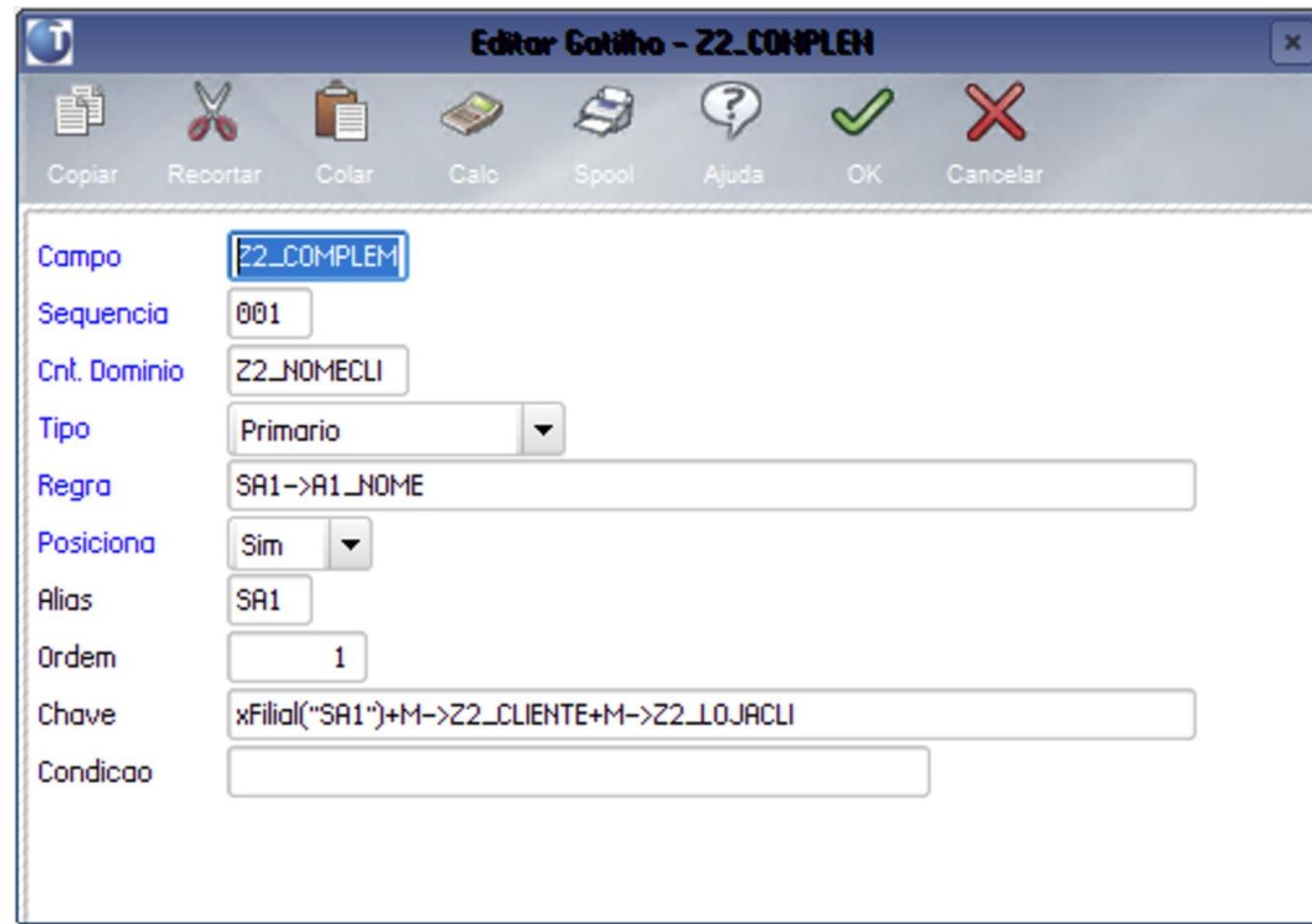


Hands on – Protheus

- Gatilho para o campo Z2_COMPLETE

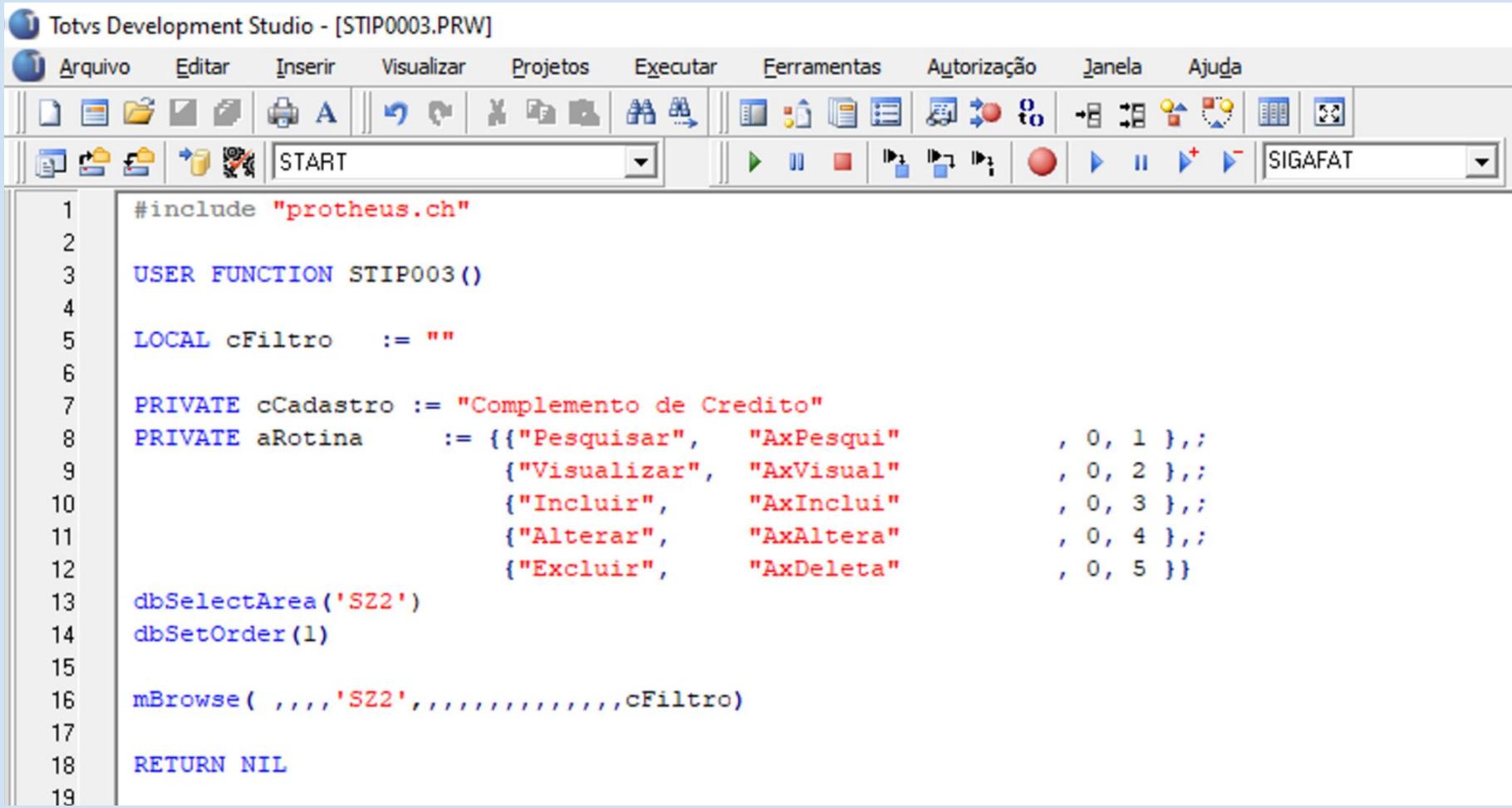
Campo	Seqüencia
A1_CORDES	001
A1_CGC	001
A1_CGC	002
A1_CGC	003
A1_CGC	004
A1_CGC	005
A1_CGC	006
A1_CGC	007
A1_CGC	008
A1_CGC	009
A1_CGC	010
A1_COOD_MUN	001
A1_CONDPAQ	001
A1_DISPAQ	001
A1_EST	001
A1_EST	002
A1_PAIS	001
A1_SATIV1	001
A1_SATIV2	001
A1_SATIV3	001
A1_SATIV4	001
A1_SATIV5	001
A1_SATIV6	001
A1_SATIV7	001
A1_SATIV8	001
A1_SUBCOD	001

Hands on – Protheus



Hands on – Protheus

- Criar um fonte para CRUD da tabela SZ2



The screenshot shows the Totvs Development Studio interface with the title bar "Totvs Development Studio - [STIP003.PRW]". The menu bar includes Arquivo, Editar, Inserir, Visualizar, Projetos, Executar, Ferramentas, Autorização, Janela, and Ajuda. The toolbar contains various icons for file operations like Open, Save, Print, and Insert. Below the toolbar is a status bar showing "START" and "SIGAFAT". The main area is a code editor displaying the following Protheus script:

```
#include "protheus.ch"

USER FUNCTION STIP003()

LOCAL cFiltro := ""

PRIVATE cCadastro := "Complemento de Credito"
PRIVATE aRotina := {{"Pesquisar", "AxPesqui" , 0, 1}, {"Visualizar", "AxVisual" , 0, 2}, {"Incluir", "AxInclui" , 0, 3}, {"Alterar", "AxAltera" , 0, 4}, {"Excluir", "AxDelete" , 0, 5}}
dbSelectArea('SZ2')
dbSetOrder(1)

mBrowse( ....,'SZ2',.....,cFiltro)

RETURN NIL
```

Hands on – Protheus

```
#include "protheus.ch"

USER FUNCTION STIP003()

LOCAL cFiltro    := ""

PRIVATE cCadastro := "Complemento de Credito"
PRIVATE aRotina   := { {"Pesquisar",      "AxPesqui"           , 0, 1 } ,;
                      {"Visualizar",     "AxVisual"          , 0, 2 } ,;
                      {"Incluir",        "AxInclui"          , 0, 3 } ,;
                      {"Alterar",        "AxAltera"          , 0, 4 } ,;
                      {"Excluir",        "AxDelete"          , 0, 5 } }

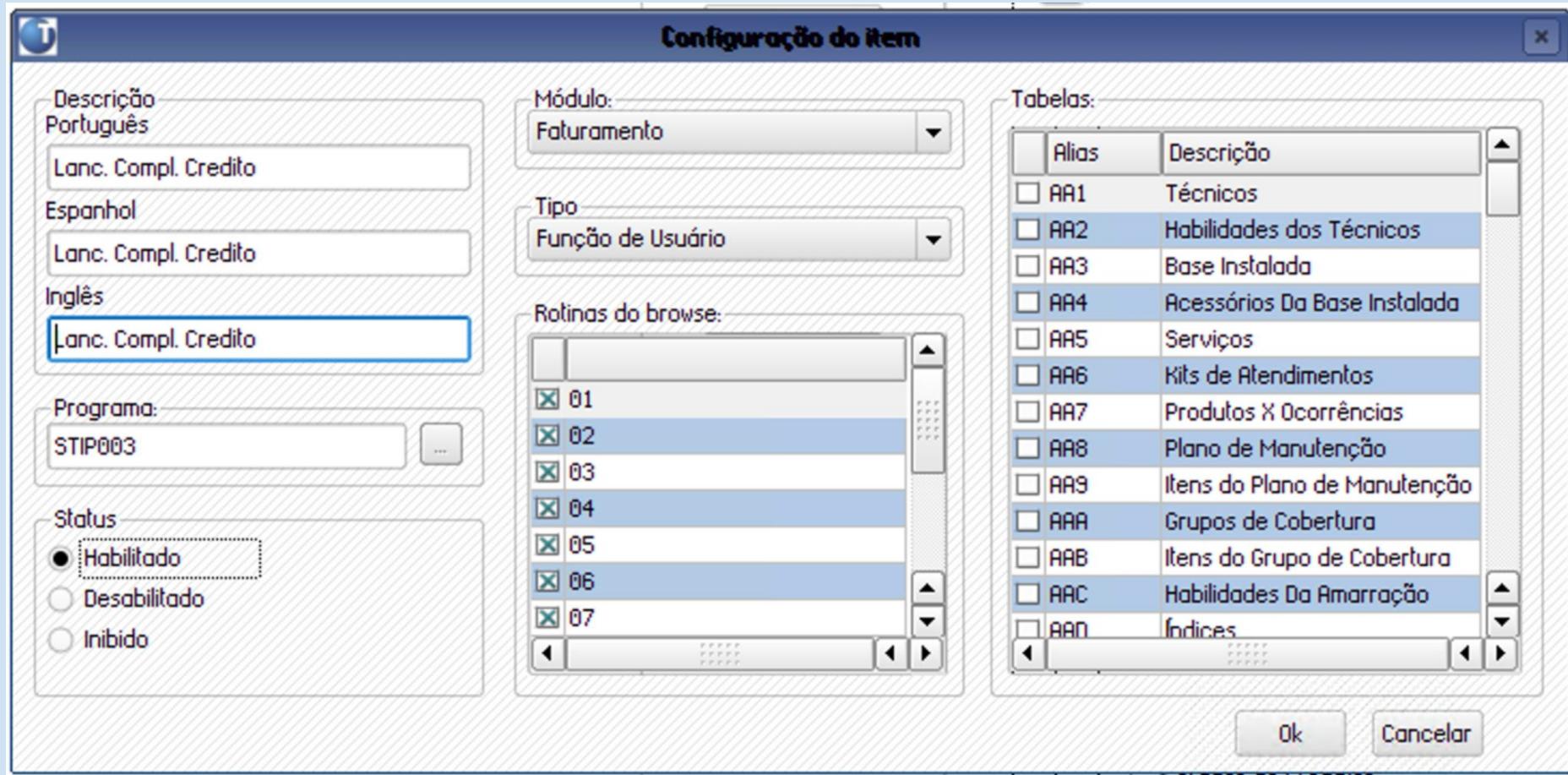
dbSelectArea('SZ2')
dbSetOrder(1)

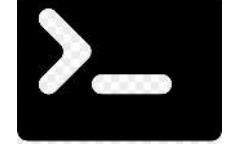
mBrowse( ,,,,'SZ2',,,,,,,,,cFiltro)

RETURN NIL
```

Hands on – Protheus

- Criar menu para o novo fonte que trata a tabela SZ2





Hands on – Protheus

- Nossa aplicação deve estar assim (SZ1)

The screenshot shows a Windows desktop environment with a Protheus application window open. The window title is "Faturamento" and the menu bar includes "Protheus 10 > Faturamento > Atualizações >". The main content area displays a grid titled "Complem. Credito 1" with columns: Código, Cliente, Loja, Nome Cliente, Renda, Credito, Rs Utilizado, and Data Nascim. There are three rows of data:

Código	Cliente	Loja	Nome Cliente	Renda	Credito	Rs Utilizado	Data Nascim.
000001	000001	03	GABRIEL NOGUEIRA	200,00	400,00	0,00	11/07/83
000002	000001	02	LETICIA NOGUEIRA	300,00	600,00	0,00	30/06/98
000003	000001	01	MATHEUS NOGUEIRA	500,00	1.000,00	0,00	07/04/76

At the bottom of the application window, there is a footer with fields for "Código" (000001), "Loja" (03), "Cliente" (000001), and "Renda" (200,00). The system tray at the bottom of the screen shows icons for the taskbar, including a search bar, browser, file manager, and other system utilities. The date and time in the bottom right corner are 28/10/2022 and 12:36.

Hands on – Protheus

- Nossa aplicação deve estar assim (SZ2)

