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SDK - Software Development Kit - v.1.0

## Exemplo CRUD FreeForm

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Labels

[incubado](#), [metadados](#), [ablscrip](#), [crud](#), [freeform](#)

O exemplo a seguir mostra o uso de ABLScript em um CRUD simples. Esse exemplo implementa consultas, inserções, atualizações e remoções de dados, bem como navegação de tela. Ilustrando principalmente o uso de [DEFINE TEMP-TABLE statement](#), [FOR EACH](#) e [RUN](#).

**documento incubado**

### Importante

Este exemplo apresenta a estrutura de CRUD com ABLScript, sendo que não é a definição oficial para o novo modelo de CRUD com FreeForm.

#### vbPrincipal.creationComplete

```
/* Declaração de variáveis compartilhadas utilizadas */
DEFINE NEW SHARED TEMP-TABLE ttPaisSelected
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".
```

#### hbFilter.creationComplete

```
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE cbFields AS WIDGET-HANDLE.
DEFINE VARIABLE campos AS CHARACTER INITIAL "Todos,Codigo,Nome".

/* Atribui lista de itens para ComboBox*/
cbFields:LIST-ITEMS = campos.
```

#### cbFields.close

```
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE cbFields AS WIDGET-HANDLE.
DEFINE VARIABLE txtValue AS WIDGET-HANDLE.
DEFINE VARIABLE selectedIndex AS INTEGER.

/* Atribui valor do item selecionado no ComboBox */
ASSIGN selectedIndex = GETPROPERTY(cbFields, "selectedIndex").

/* Verifica se o item selecionado é diferente de TODOS para habilitar campo para
   entrada de filtro específico por campo */
IF selectedIndex > 0 THEN
    SETPROPERTY(txtValue, "visible", "true").
ELSE
    SETPROPERTY(txtValue, "visible", "false").
END.
```

#### lkbtnApply.click

```
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE grid AS WIDGET-HANDLE.
DEFINE VARIABLE vHandle AS HANDLE.
DEFINE TEMP-TABLE ttPais
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".

/* Atribui handle para chamada de Procedure*/
RUN pais.p PERSISTENT SET vHandle.
/* Chamada de Procedure Progress*/
RUN readPais IN vHandle (OUTPUT ttPais).

/* Atribui valor de retorno de dados filtrados*/
grid:QUERY-OPEN(ttPais).
```

## grid.itemClick

```
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE grid AS WIDGET-HANDLE.
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnUpdate AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE selectedIndex AS INTEGER.
DEFINE VARIABLE idx AS INTEGER.
DEFINE SHARED TEMP-TABLE ttPaisSelected
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".
DEFINE TEMP-TABLE ttPais
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".

/* Varre TEMP-TABLE compartilhada para deletar o registro anterior setada */
FOR EACH ttPaisSelected:
    ttPaisSelected:DELETE-CURRENT().
END.

/* Popula a Temp-Table com os dados do grid */
ttPais = grid:QUERY-OPEN().

/* Seta o registro corrente da Temp-Table o
mesmo selecionado no grid.*/
idx = grid:SELECTED-ROW().
ttPais:SET-CURRENT(idx).

/* Atualiza os campos com os dados do registro corrente */
CREATE ttPaisSelected.
ttPaisSelected.codigo = ttPais.codigo.
ttPaisSelected.nome = ttPais.nome.

/* Seta variável selectedIndex para habilitar botões de ação*/
ASSIGN selectedIndex = GETPROPERTY(grid, "selectedIndex").

/* Verifica se algum item do GRID foi selecionado para habilitar ou
desabilitar botões de ação*/
IF selectedIndex >= 0 THEN DO:
    SETPROPERTY(btnDetail, "enabled", "true").
    SETPROPERTY(btnUpdate, "enabled", "true").
    SETPROPERTY(btnRemove, "enabled", "true").
ELSE
    SETPROPERTY(btnDetail, "enabled", "false").
    SETPROPERTY(btnUpdate, "enabled", "false").
    SETPROPERTY(btnRemove, "enabled", "false").
END.
```

## btnDetail.click

```
/* Declaração de variáveis utilizadas */
DEFINE SHARED TEMP-TABLE ttPaisSelected
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnAdd AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE btnBack AS WIDGET-HANDLE.
DEFINE VARIABLE btnDuplicate AS WIDGET-HANDLE.
DEFINE VARIABLE txtCodigo AS WIDGET-HANDLE.
DEFINE VARIABLE txtNome AS WIDGET-HANDLE.
DEFINE VARIABLE vstack AS WIDGET-HANDLE.

/* Botões que serão ocultos */
SETPROPERTY(btnDetail, "visible", "false").
SETPROPERTY(btnDetail, "includeInLayout", "false").
SETPROPERTY(btnAdd, "visible", "false").
SETPROPERTY(btnAdd, "includeInLayout", "false").
/* Botões que serão apresentados */
SETPROPERTY(btnBack, "visible", "true").
SETPROPERTY(btnBack, "includeInLayout", "true").
SETPROPERTY(btnDuplicate, "visible", "true").
SETPROPERTY(btnDuplicate, "includeInLayout", "true").
/* Campos de input que serão desabilitados para somente consulta */
SETPROPERTY(txtCodigo, "enabled", "false").
SETPROPERTY(txtNome, "enabled", "false").
/* Atribui valor que foi selecionado no GRID para os campos da tela */
FOR EACH ttPaisSelected:
    txtCodigo:SCREEN-VALUE = STRING(ttPaisSelected.codigo).
    txtNome:SCREEN-VALUE = ttPaisSelected.nome.
END.
/* Seta para view com os campos para detalhe */
SETPROPERTY(vstack, "selectedIndex", "1").
```

## btnAdd.click

```
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnAdd AS WIDGET-HANDLE.
DEFINE VARIABLE btnUpdate AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE btnSave AS WIDGET-HANDLE.
```

```

DEFINE VARIABLE btnSaveNew AS WIDGET-HANDLE.
DEFINE VARIABLE btnCancel AS WIDGET-HANDLE.
DEFINE VARIABLE txtCodigo AS WIDGET-HANDLE.
DEFINE VARIABLE txtNome AS WIDGET-HANDLE.
DEFINE VARIABLE vstack AS WIDGET-HANDLE.

/* Botões que serão ocultos */
SETPROPERTY(btnDetail, "visible", "false").
SETPROPERTY(btnDetail, "includeInLayout", "false").
SETPROPERTY(btnAdd, "visible", "false").
SETPROPERTY(btnAdd, "includeInLayout", "false").
SETPROPERTY(btnUpdate, "visible", "false").
SETPROPERTY(btnUpdate, "includeInLayout", "false").
SETPROPERTY(btnRemove, "visible", "false").
SETPROPERTY(btnRemove, "includeInLayout", "false").
/* Botões que serão apresentados */
SETPROPERTY(btnSave, "visible", "true").
SETPROPERTY(btnSave, "includeInLayout", "true").
SETPROPERTY(btnSaveNew, "visible", "true").
SETPROPERTY(btnSaveNew, "includeInLayout", "true").
SETPROPERTY(btnCancel, "visible", "true").
SETPROPERTY(btnCancel, "includeInLayout", "true").
/* Habilita campos do formulário */
SETPROPERTY(txtCodigo, "enabled", "true").
SETPROPERTY(txtNome, "enabled", "true").
/* Limpa campos do formulário */
SETPROPERTY(txtCodigo, "text", "").
SETPROPERTY(txtNome, "text", "").
/* Seta para view com os campos para edição */
SETPROPERTY(vstack, "selectedIndex", "1").

```

### btnUpdate.click

### btnDuplicate.click

### btnRemove.click

### btnBack.click

```

/* Declaração de variáveis utilizadas */
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnAdd AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE btnBack AS WIDGET-HANDLE.
DEFINE VARIABLE btnDuplicate AS WIDGET-HANDLE.
DEFINE VARIABLE vstack AS WIDGET-HANDLE.

/* Botões que serão ocultos */
SETPROPERTY(btnBack, "visible", "false").
SETPROPERTY(btnBack, "includeInLayout", "false").
SETPROPERTY(btnDuplicate, "visible", "false").
SETPROPERTY(btnDuplicate, "includeInLayout", "false").
/* Botões que serão apresentados */
SETPROPERTY(btnDetail, "visible", "true").
SETPROPERTY(btnDetail, "includeInLayout", "true").
SETPROPERTY(btnAdd, "visible", "true").
SETPROPERTY(btnAdd, "includeInLayout", "true").
/* Seta para tela de filtro com Grid */
SETPROPERTY(vstack, "selectedIndex", "0").

```

### btnSave.click

```

/* Declaração de variáveis utilizadas */
DEFINE VARIABLE vHandle AS HANDLE.
DEFINE VARIABLE txtNome AS WIDGET-HANDLE.
DEFINE VARIABLE txtCodigo AS WIDGET-HANDLE.
DEFINE VARIABLE codigo AS CHARACTER.
DEFINE VARIABLE nome AS CHARACTER.
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnAdd AS WIDGET-HANDLE.
DEFINE VARIABLE btnUpdate AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE btnSave AS WIDGET-HANDLE.
DEFINE VARIABLE btnSaveNew AS WIDGET-HANDLE.
DEFINE VARIABLE btnCancel AS WIDGET-HANDLE.
DEFINE VARIABLE vstack AS WIDGET-HANDLE.
DEFINE TEMP-TABLE ttPais
    FIELD codigo AS INTEGER LABEL "Codigo"
    FIELD nome AS CHARACTER LABEL "Nome".

ASSIGN codigo = GETPROPERTY(txtCodigo, "text").
ASSIGN nome = GETPROPERTY(txtNome, "text").

```

```

CREATE ttPais.
ttPais.codigo = INTEGER(codigo).
ttPais.nome = nome.

RUN pais.p PERSISTENT SET vHandle.
RUN createPais IN vHandle (INPUT ttPais).

/* Botões que serão ocultos */
SETPROPERTY(btnSave, "visible", "false").
SETPROPERTY(btnSave, "includeInLayout", "false").
SETPROPERTY(btnSaveNew, "visible", "false").
SETPROPERTY(btnSaveNew, "includeInLayout", "false").
SETPROPERTY(btnCancel, "visible", "false").
SETPROPERTY(btnCancel, "includeInLayout", "false").
/* Botões que serão apresentados */
SETPROPERTY(btnDetail, "visible", "true").
SETPROPERTY(btnDetail, "includeInLayout", "true").
SETPROPERTY(btnAdd, "visible", "true").
SETPROPERTY(btnAdd, "includeInLayout", "true").
SETPROPERTY(btnUpdate, "visible", "true").
SETPROPERTY(btnUpdate, "includeInLayout", "true").
SETPROPERTY(btnRemove, "visible", "true").
SETPROPERTY(btnRemove, "includeInLayout", "true").
/* Seta para tela de filtro com Grid */
SETPROPERTY(vstack, "selectedIndex", "0").

```

#### btnSaveNew.click

#### btnCancel.click

```

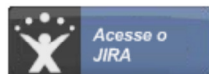
/* Declaração de variáveis utilizadas */
DEFINE VARIABLE btnDetail AS WIDGET-HANDLE.
DEFINE VARIABLE btnAdd AS WIDGET-HANDLE.
DEFINE VARIABLE btnUpdate AS WIDGET-HANDLE.
DEFINE VARIABLE btnRemove AS WIDGET-HANDLE.
DEFINE VARIABLE btnSave AS WIDGET-HANDLE.
DEFINE VARIABLE btnSaveNew AS WIDGET-HANDLE.
DEFINE VARIABLE btnCancel AS WIDGET-HANDLE.
DEFINE VARIABLE txtCodigo AS WIDGET-HANDLE.
DEFINE VARIABLE txtNome AS WIDGET-HANDLE.
DEFINE VARIABLE vstack AS WIDGET-HANDLE.

/* Botões que serão ocultos */
SETPROPERTY(btnSave, "visible", "false").
SETPROPERTY(btnSave, "includeInLayout", "false").
SETPROPERTY(btnSaveNew, "visible", "false").
SETPROPERTY(btnSaveNew, "includeInLayout", "false").
SETPROPERTY(btnCancel, "visible", "false").
SETPROPERTY(btnCancel, "includeInLayout", "false").
/* Botões que serão apresentados */
SETPROPERTY(btnDetail, "visible", "true").
SETPROPERTY(btnDetail, "includeInLayout", "true").
SETPROPERTY(btnAdd, "visible", "true").
SETPROPERTY(btnAdd, "includeInLayout", "true").
SETPROPERTY(btnUpdate, "visible", "true").
SETPROPERTY(btnUpdate, "includeInLayout", "true").
SETPROPERTY(btnRemove, "visible", "true").
SETPROPERTY(btnRemove, "includeInLayout", "true").
/* Seta para tela de filtro com Grid*/
SETPROPERTY(vstack, "selectedIndex", "0").

```

### Informações sobre este Documento

Versão	Estado	Compatibilidade	Criador	Criação	Último Revisor	Última Revisão
<a href="#">13</a>	incubado	3.2.0	<a href="#">Rafael Miranda Moller</a>	Mar 04, 2010 08:31	<a href="#">Rafael Miranda Moller</a>	Mar 04, 2010 09:20



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