# Tablespace Manager

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# Concept

The Tablespace Manager is used to create new tablespaces, display the tablespace allocation and to expand the tablespace as needed. Oracle7 Workgroup Server allows you to expand tablespaces in two ways: by enabling self-expansion of existing datafiles or by adding more datafiles to a tablespace.

Oracle Corporation recommends that you expand the tablespace as soon as it reaches 75% capacity to prevent space problems. Select a conservative amount by which to expand your tablespace. You may always expand again, but it is impossible to contract the tablespace.

Oracle7 Workgroup Server always saves tablespace names in uppercase format, regardless of how they were initially named.

### *Datafile*

A datafile physically stores database data.

### *Self-expansion feature*

Tablespaces are self-expanding. You do not have to manually expand the tablespaces unless you want to create datafiles in a different logical volume.

### *Tablespace*

A tablespace is comprised of one or more datafiles. For example, the simplest Oracle database would have one tablespace, with one datafile. A more complicated database might have three tablespaces, each comprised of two datafiles, for a total of six datafiles.

# Screen Elements 1

The elements of the “Tablespace Manager” screen are listed below, along with a description of their functions.

| Screen Element | Type | Description |
|---|---|---|
| Tablespace: | Text | Indicates the current tablespace selected for expansion or maintenance. |
| Status: | Text | Indicates the current tablespace selected for expansion or maintenance. |
| Toggle Status | Button | Changes the status of the tablespace: online or offline. |
| Tablespace Allocation | Text and Graphics | Indicates the amount of used and available |

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| | | space of the displayed tablespace. |
| Datafiles | Scroll List | Indicates the datafiles belonging to the tablespace. |
| Tablespace | Option List | Selects the tablespace you will be displaying or expanding. |
| View | Button | Displays the selected tablespace. |
| Expand | Button | Sends you to another screen to expand a tablespace. |
| Create | Button | Sends you to another screen to create a new tablespace. |

## Procedure 1

Perform the following steps to successfully manage the database tablespace.

1. Do you want to view, create, or expand a tablespace?
   - If you want to create a tablespace, click on the "Create" button.

**Result**

The "Create Tablespace" screen will appear.

   - If you want to view or expand the tablespace, continue with step 3.

2. Display the tablespace you would like to view or expand by selecting it from the "Tablespace" scroll list and clicking on the "View" button.

**Note:**

Oracle Corporation recommends you first view a tablespace before expanding it.

**Result**

The screen will reload, displaying the used and unused portions of the selected tablespace.

3. Do you want to expand the displayed tablespace?
   - If yes, click on the "Expand" button to expand the tablespace.

**Result**

The "Expand Tablespace" screen will appear.

   - If no, move to another tablespace or tool screen.

## Screen Elements 2: Create Tablespace

The elements of the “Create Tablespace” screen are listed below, along with a description of their functions.

| Screen Element | Type | Description |
|---|---|---|
| Tablespace: | Text Field | Allows you to enter the name of a new tablespace. |
| New Datafile | Text Field | Allows you to enter the name of a new datafile. A value must be entered. A default value is automatically provided. |
| Initial Size | Text Field and Radio Buttons | Allows you to enter a value no longer than four digits for the initial size of the datafile in KB or MB. A value must be entered. |
| Increment Size | Text Field and Radio Buttons | Allows you to enter a value no longer than four digits for the increment size of |

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| | | the datafile in KB or MB. The default value is 1 KB. |
| Maximum Size | Text Field and Radio Button | Allows you to enter a value no longer than four digits for the maximum size of the datafile in KB or MB. The default value is unlimited. |
| Create | Button | Creates a new tablespace with the information you have chosen. |

## Procedure 2: Create Tablespace

Perform the following steps to successfully create a tablespace.

1. Enter a new tablespace name in the "Tablespace" text field.
2. Enter a datafile name in the "New datafile" text field.

**Note:**

You can choose to use the default value, or enter another name. Only one datafile is needed to create a tablespace. To add more datafiles, go to the "Expand Tablespace" screen.
Enter a value in the "Initial Size" text field and select either KB or MB.

**Note:**

You must specify an initial size, or an error will be generated.

3. Enter a value in the "Increment Size" field and select either KB or MB.

**Note:**

The default value is 1 KB.

4. Enter a value in the "Maximum Size" field to restrict the datafile size and select either KB or MB.

**Note:**

The default value is unlimited.

5. Click on the "Create" button.

**Result**

The Oracle7 Workgroup Server will create a new tablespace according to your specifications. Oracle7 Workgroup Server always saves tablespace names in uppercase format, regardless of how they were initially named.

## Screen Elements 3: Expand Tablespace

The elements of the “Expand Tablespace” screen are listed below, along with a description of their functions.

| Screen Element | Type | Description |
|---|---|---|
| New Datafile | Text Field | Allows you to enter the name of a new datafile. A value must be entered. |
| Initial Size | Text Field and Radio Buttons | Allows you to enter a value no longer than four digits for the initial size of the datafile in KB or MB. A value must be entered. |
| Increment Size | Text Field and Radio Buttons | Allows you to enter a value no longer than four digits for the increment size of the datafile in KB or MB. The default value is 1 KB. |
| Maximum Size | Text Field and Radio Button | Allows you to enter a value no longer than |

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| | | four digits for the maximum size of the datafile in KB or MB. The default value is unlimited. |
| Expand | Button | Expands the tablespace with the information you have entered. |

## Procedure 3: Expand Tablespace

Perform the following steps to successfully expand an existing tablespace.

1. Enter a name in the "New datafile" text field. Be sure to include an existing directory in the path.

**Note:**

You must enter a name in this field, or an error will be generated. The Oracle7 Workgroup Server does not provide a default.

2. Enter a value in the "Initial Size" text field and select either KB or MB.

**Note:**

You must specify an initial size, or an error will be generated.

3. Enter a value in the "Increment Size" field and select either KB or MB.

**Note:**

The default value is 1 KB.

4. Enter a value in the "Maximum Size" field to restrict the datafile size and select either KB or MB.

**Note:**

The default value is unlimited.

5. Click on the "Expand" button.

**Result**

The Oracle7 Workgroup Server will expand the tablespace according to your specifications.