

Increasing the table space size in Web Content Publisher

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Abstract

When you register a resource in Web Content Publisher (WCP), the underlying database assigns the new resource to a particular table space. The size of the table space's buffers must be large enough so that a single row of the database will fit within a single buffer. By default, the database's buffers are typically 4K. This means that if you register a resource, such as a press release, that has columns whose total length exceeds 4K, the registration will fail. Specifically, you will see the following error message when you register the resource type.



This paper explains how to define a new table space to DB2[®]. DB2 will then make use of this new table space when needed.

Step1. Create a Buffer Pool.

In the DB2 Control Center, right-click **Buffer Pools** and select **Create**.

| 🔞 Control Center | | |
|--|--------------------------------|-----|
| Control Center Selected Edit View Tools Help | | 24m |
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| Systems | GTM - DB2 - WCM-Buffer Pools | |
| ∃] GTM | Name Size Use extended storage | |
| 🖻 🦳 Instances | GREGBP 250 No | |
| | BMDEFAU 250 No | |
| Databases | | |
| U WAS4U | | |
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| | | |
| Aliases | | |
| - Triggers | | |
| | | |
| Indexes | | |
| -C Table Spaces | | |
| Connections | | |
| Replication Sources | | |
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| Buffe Create | | |
| H Herriter | | |
| Eedecareu valanase Objects | | |
| DWCTRLDB | | |
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| | | |
| Gateway Connections | | |
| DB2CTLSV | | |
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Step 2. Choose a Page Size greater than 4K (the default)

| 🔀 Create Buffer Poo | | | | × | |
|--------------------------------|-----------|--------|------|---|--|
| GTM - DB2 - WCM | | | | | |
| Buffer pool name | GREGBP | | | | |
| Page size | 16 | - | | | |
| Size in 16 KB pages | | 250 | | | |
| □ Us <u>e</u> extended storage | | | | | |
| 🔲 Use <u>d</u> efault buffer | pool size | | | | |
| | | | _ | | |
| <u>O</u> KSho | W SQL | Cancel | Help | | |

In the **Page size** field select a value and click **OK** to create the Buffer Pool.

Step 3. Stop and restart DB2 to activate the pool.

To stop DB2, right-click the database and select Stop.

| Control Center Selected Ealt View Tools Fielp | 🔞 Control Center | |
|--|--|-----------------|
| Image: State Image: State <td>Control Center Selected Edit View Tools Help</td> <td></td> | Control Center Selected Edit View Tools Help | |
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| Instances Image: Change. Remove Stat Stat Configure Setup communications Applications Applications Performance Monitoring → Multisite Update → Refresh | Ė−_] GTM | Name |
| Geteway C Geteway C | 🖻 🦳 Instances | T Databases |
| Image: Contract of the start Image: Start </td <td>🖻 😤 🧧 Open New Control Center</td> <td>Gateway C</td> | 🖻 😤 🧧 Open New Control Center | Gateway C |
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Select **Disconnect all applications** and click **OK**.

| 🔀 Confirm Stop | | | | |
|----------------|-----------------------|--|--|--|
| Disconr | nect all applications | | | |
| db2stop | GTM - DB2 | | | |
| | | | | |
| | | | | |
| <u>0</u> K | Cancel Help | | | |

| Control Center | | - 🗆 🗵 |
|--------------------------------|---------------|-------|
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| Systems | GTM - DB2 | |
| | Name | |
| | | |
| Open New Control Center | Caleway C | |
| Bemove | | |
| Start | | |
| Stop | | |
| Attach | | |
| Import Server Profile | | |
| Setup communications | | |
| Applications | | |
| Performance Monitoring 🔸 | | |
| Multisite Update | | |
| Refresh | | |
| Replication Subscriptions | | |
| Application Objects | | |
| 🕀 🧰 User and Group Objects | | |
| 😐 🧰 Federated Database Objects | | |
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| Gateway Connections | | |
| DB2CTLSV | | |
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To restart DB2, right-click the database and select Start.

Step 4. Create a table space using the new buffer pool In the Control Center navigation frame, right-click **Table Space** and select **Create** > Table Space.

| 🖥 Control Center | | | | | | | | | |
|--|---------------------------|--------------|------------|--------|-------------|---------------|----------|---------------|-------------|
| Control Center Selected Edit View Tools Help | | | | | | | | | |
| | | | | | | | | | |
| Systems | GTM - DB2 - WCM - Table S | paces | 741 | | 5.0 | | | | |
| ∃ GTM | Name | Type of data | Managed by | State | Extent size | Prefetch size | Overhead | Transfer rate | Buffer Pc |
| Ē-─́ Instances | SYSCATSPACE | Regular | System | Normal | 32 | 16 | 24.100 | | 0.9 IBMDEF# |
| | C TEMPSPACE1 | System temp | . System | Normal | 32 | 16 | 24.100 | | 0.9 IBMDEF# |
| Databases | C USERSPACE1 | Regular | System | Normal | 32 | 16 | 24.100 | | 0.9 IBMDEF# |
| WAS40 | | | | | | | | | |
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| - Aliases | | | | | | | | | |
| - Triggers | | | | | | | | | |
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| Table Spaces | Table Orean | | | | | | | | |
| Connect Create | toring Table Space Lis | ing Wizard | | | | | | | |
| | Interpretered | ing withand | | | | | | | |
| Replican Buffer P Refresh | | | | | | | | | |
| Build P Annlication Objects | | | | | | | | | |
| H- User and Group Objects | | | | | | | | | |
| Federated Database Objects | | | | | | | | | |
| DWCTRLDB | | | | | | | | | |
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| 🗄 🧰 Gateway Connections | | | | | | | | | |
| IB → DB2CTLSV | | | | | | | | | |
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| Reate Table Space | | | | | × |
|--------------------------|------------|--------|------------------|-------------------|-----------------|
| Table space name gregts | | | | | |
| Type of table space | | | Space management | | |
| Regular | | | C System | | |
| C Long | | | C 5-4-4 | | |
| O System temporary | | | | | |
| C User temporary | | | | | |
| | | | | | |
| Container name | | Туре | Size (MB) | | <u>A</u> dd |
| | | | | | <u>C</u> hange |
| | | | | _ | Remove |
| Total allocated: 0.00 MB | | | | | <u>T</u> 200202 |
| | | | | | |
| Comment | | | | | |
| | <u>o</u> k | Cancel | Sho <u>w</u> SQL | Ad <u>v</u> anced | Help |

On the Create Table Space window, click Add.

| 🔞 Add Container | | × |
|--------------------------|------------|---------------------------|
| File size | | |
| 20 ME | Э 🔽 | |
| • <u>F</u> ile | | |
| C <u>R</u> aw device | | |
| Container | | Current directory |
| grego | | C:\Program Files\SQLLIB\ |
| Files | | Directories |
| db2cli.ini db2cli.ont | | prt 🔺 |
| db2clia1.lst | | samples |
| db2clias.lst | _ | system |
| evaluate.agr | - | tivready |
| | | Drives |
| | | C: 26906 MB available |
| | <u>0</u> K | Cancel <u>A</u> pply Help |
| | | |

On the Add Container window, click **OK** to return to the Create Table Space window.

| 📔 Create Table Space | | | | | × |
|------------------------------|------------|-------|--------------------|-------------------|----------------|
| GTM - DB2 - WCM | | | | | |
| Table space name gregts | | | | | |
| Type of table space | | | -Space managemer | nt | |
| | | | C System | | |
| C Long | | | @ Databasa | | |
| O System temporary | | | | | |
| C User temporary | | | | | |
| | | | | | |
| | | 1 | | | |
| Container name | | Туре | Size (MB) | | <u>A</u> aa |
| C:\Program Files\SQLLIB\greg | с | File | 20 | | <u>C</u> hange |
| | | | | | Damaua |
| | | | | | Remove |
| Total allocated: 20.00 MB | | | | | |
| Comment | | | | | |
| | <u>o</u> k | Cance | I Sho <u>w</u> SQL | Ad <u>v</u> anced | Help |

On the Create Table Space window, click Advanced.

| 📔 Advanced | | × |
|---------------|------------|------------|
| GTM - DB2 - W | СМ | |
| Page size | 16 💌 | КВ |
| Extent size | 32 | 16KB pages |
| Prefetch size | 16 💌 | 16KB pages |
| Overhead | 24.1 | ms |
| Transfer | 0.9 | ms |
| Buffer pool | GREGBP 🗾 🔽 | |
| <u>o</u> k | Cancel | Help |

On the Advanced window, choose the buffer pool you created. Ensure that the page size matches the page size for the buffer pool and click **OK** to set the Advanced Options. Click **OK** to create the Table Space.

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