

# Versioning

Version Management in ArcGIS

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Allegan County GIS  
[www.allegancounty.org/gis](http://www.allegancounty.org/gis)

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## Contents

0.1	Managing Geodatabase Versions . . . . .	3
0.1.1	Versioning Notes . . . . .	3
	SQL Queries . . . . .	3
0.1.2	Orphaned Versions . . . . .	4
	ID and delete orphaned geodatabase versions . . . . .	4

## 0.1 Managing Geodatabase Versions

### 0.1.1 Versioning Notes

#### SQL Queries

SDE\_states Info on the existing SDE\_states

```
use AC_Pub
select name, owner, version_id, state_id, parent_name,
       parent_owner from
       [AC_Pub].[dbo].[SDE_versions]
select * from [AC_Pub].[dbo].[SDE_versions]
select * from [AC_Pub].[dbo].[SDE_states] order by state_id
select * from [AC_Pub].[dbo].[sde_state_lineages]
       order by lineage_name,
       lineage_id
/* now I've added */
select TOP(5) * from [AC_Pub].[dbo].[SDE_compress_log] order by
       compress_end DESC
```

```
use AC_Pub
select name, owner, version_id, state_id, parent_name
, parent_owner from
       [AC_Pub].[dbo].[SDE_versions]
select * from [AC_Pub].[dbo].[SDE_states] order by state_id
select * from [AC_Pub].[dbo].[sde_state_lineages] order
       by lineage_name,
       lineage_id
select TOP(5) * from [AC_Pub].[dbo].[SDE_compress_log] order by
       compress_end DESC
```

```
SELECT v.version_id,v.creation_time,v.creation_time,
       s.state_id, s.creation_time
FROM SDE_versions v
INNER JOIN SDE_states s ON v.state_id = s.state_id
```

## 0.1.2 Finding Orphaned Versions

### ID and delete orphaned geodatabase versions

Follow the procedure: [Link to source](#)

Use SQL Server Management Studio to execute two queries and compare the results.

#### Step 1:

Execute the query:

```
use AC_Pub
SELECT ObjectID, name from dbo.GDB_ITEMS where
TYPE='4ED4A58E-621F-4043-95ED-850FBA45FCBC';
```

#### Step 2:

Execute the query:

```
use AC_Pub
SELECT name from [dbo].[SDE_versions]
order by name
```

Compare the tables

This graphic summarizes elements of the queries.

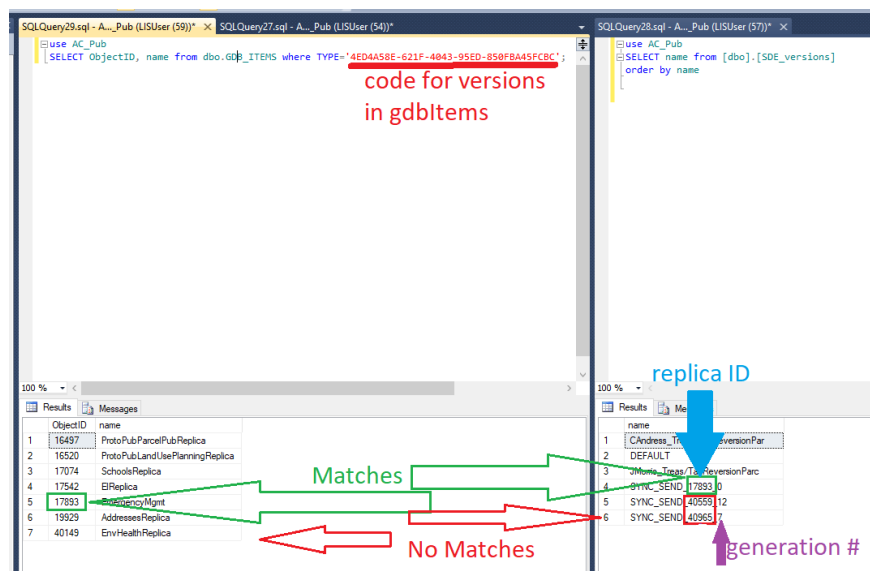


Figure 1: Find Orphan Versions

Note the items from step two that have no match in step one.

Orphaned versions can be removed by name in ArcGIS

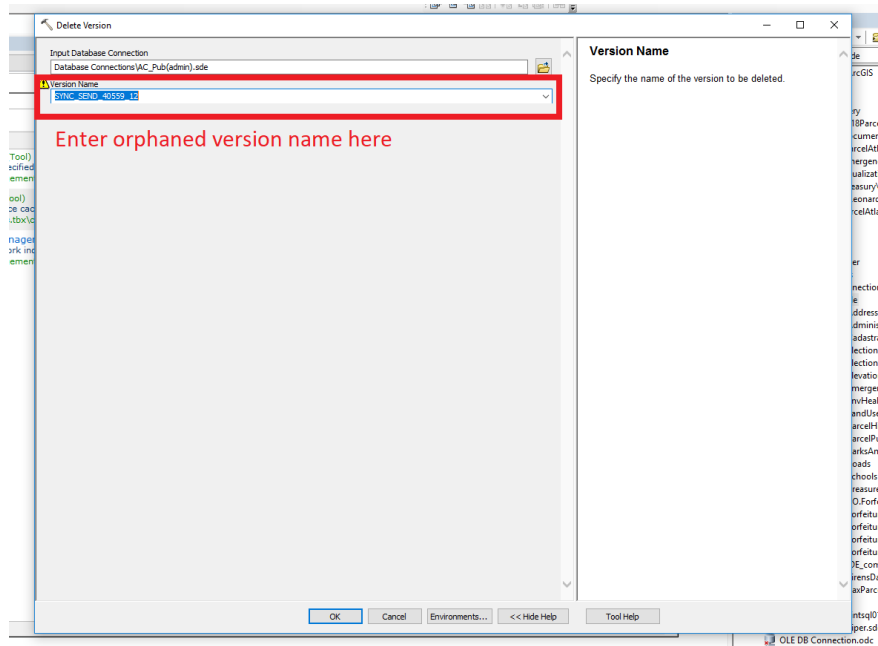


Figure 2: Delete Orphan Versions