

Oracle error: io_z05_write

- **Article Type:** General
- **Product:** Aleph
- **Product Version:** 20, 21, 22, 23

Problem Symptoms:

The following error messages in the `www_server_nnnn.log`, `pc_server_nnnn.log`, or output of some other Aleph process:

```
Oracle error: io_z05_write
ORA-00001: unique constraint (VIR01.Z05_ID) violated
io_z05_write: REATTEMPTING TO WRITE Z05...
```

Cause:

Duplicate Oracle key for Oracle table VIR01.Z05. util a/17/11/2 for the vir01 z05 table shows:

```
COUNT (*)
-----
1000000
```

As seen in the `./alephm/source/copy/Z05` file:

```
02 Z05-REC-KEY. K
03 Z05-NUMBER PICTURE 9(6).
```

the z05 rec-key is only 6 digits; the maximum value is 999,999. When it reaches 1000000, it wraps around and attempts to write a key of '000000', which already exists. Thus, the "unique constraint (VIR01.Z05_ID) violated".

Resolution:

Stop all the Aleph server and services as follows

```
cd $alephe_root
csh -f aleph_shutdown
```

Clean the VIR01 library with `$aleph_proc/clear_vir01` or Util x/8 (cold mode).

Restart the Aleph server and services with `csh -f aleph_startup`.

Note: If it's a time of low activity, util a/17/1 ("Drop & Create Table and Index") could probably be run successfully for the vir01 z05 and z110 tables. (The z05 and z110 go together and both would need to be dropped/recreated.) This would immediately fix the z05 error without requiring `aleph_shutdown/_startup`.

Additional Information

It is strongly recommend to execute `clear_vir01` on regular basis. See [Regularly Performed Jobs in Aleph](#).

Check for `clear_vir01` in the `$alephe_tab/job_list`. Make sure that the entry is active (-- not commented out --).

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