The document explains rootcause analysis of Job Mgmt cron failure faced during AWS migration effort.

ETL Job Mgmt cron script (etl\_job\_control.bash) errored out at the step where the code determines and loads all runnable and stuck jobs into etl\_job\_list table (etl\_job.set\_etl\_jobs procedure)

${DB\_MAXDAT\_CLIENT} -S ${DB\_MAXDAT\_USER}/${DB\_MAXDAT\_PASSWORD}@//${DB\_MAXDAT\_HOSTNAME}:${DB\_MAXDAT\_PORT}/${DB\_MAXDAT\_NAME} @${ETL\_JOBCONTROL\_SQL\_PATH}/set\_etl\_jobs.sql > ${JOB\_CONFIG\_RESULTS\_FILE}

Below is the error message as reported in (set\_etl\_jobs\_results\_20210411\_005501\_894.dat) file.

BEGIN

\*

ERROR at line 1:

ORA-00001: unique constraint (PA\_IEB.ETL\_JOB\_LIST\_PK) violated

ORA-06512: at "PA\_IEB.ETL\_JOB", line 806

ORA-06512: at "PA\_IEB.ETL\_JOB", line 722

ORA-06512: at line 2

This error is caused after a stuck job has been reset by running the below script. The stuck job is determined from records in etl\_job\_status table with job\_runnable=’Y’ and job\_status=’STARTED’

update ETL\_JOB\_STATUS

set JOB\_RUNNABLE=’Y’

where JOB\_ID=3;

commit;

ETL\_JOB.SET\_ETL\_JOBS procedure determines all runnable jobs from JOB\_RUNNABLE=’Y’ records in etl\_job\_status table in addition to other criteria, and inserts them into etl\_job\_list table. Since above job (job\_id=3) meets this criteria, it is inserted into etl\_job\_list table.

Next the procedure determines stuck jobs from job\_status=’STARTED’ in etl\_job\_status table and non-existance of log\_desc = 'JOB STUCK - RESET MAY BE REQUIRED' in etl\_job\_log table for that day in addition to other criteria. Since above job (job\_id=3) also meets this criteria, procedure carried out insert of this job already present, into etl\_job\_list table. But since table has unique key constraint defined on JOB\_ID column, insert operation failed leading to failure of main script.

The stuck job should be reset by running the below script and avoid any manual reset of columns in ETL\_JOB\_STATUS table. Below procedure resets fields in other tables in addition to job\_runnable & job\_status columns in etl\_job\_status. Hence all job reset operations should ONLY be carried by running below procedure.

**BEGIN**

**ETL\_JOB.RESET\_ETL\_JOB (?);**

**END;**

Replace “?” below with JOB\_ID.