CREATE JOB, ALTER JOB, DROP JOB

> **Jobs are SQL scripts which can call stored-procedures to do work with your data. Jobs are run by the Orixa Server at times defined by the Administrator.**

Jobs are used for

1. Running a **backup** of your database on a regular basis, to ensure that data is saved.

2. Running a **save updates** process to save changes you have made to your data into an updates file which can be transferred to another instance of your Orixa App.

3. Copying files between different **stores** in your Orixa system.

4. Running **stored procedures** to do other work such as importing or exporting data to or from your Orixa App.

Small points to remember when creating Jobs

- Jobs will not run if the server is switched off at the time-set for them to run.

- Be careful when setting a Job to run "AT SERVER START", some programmes or services may not have set up by the time the Job runs.

- Avoid setting start-times to "simple" times (like 17:00:00) as if several Jobs start at the same time the server may slow down.

SQL Syntax

```
CREATE JOB [JobName]
RUN AS [UserName, usually "Administrator"]
--date range for activity of JOB
FROM [DATE '2021-01-01'] TO [DATE '2022-01-01']
--define when the job should run
ONCE|HOURLY|DAILY|WEEKLY|MONTHLY|AT SERVER START
--if the job runs DAILY list which days
DAILY ON MON, TUE, WED, THU, FRI, SAT, SUNDAY
--define the hours in the day when the job should run
EVERY [number] MINUTES|HOURS|DAYS|WEEKS
--if the job runs monthly you can define the months when the job should run
MONTHLY ON JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, NOV, DEC
--or set specific days for each month
MONTHLY ON DAY [number between 1 and 31]
BETWEEN [TIME '12:00:00'] AND [TIME '23:59:59']
BEGIN

--Add SQL Script to USE different database and CALL Stored Procedures.
END
DESCRIPTION 'Optional description'
VERSION [optional number]
ATTRIBUTES 'optional attributes text'
```

To ALTER a JOB, just replace the "CREATE" keyword in the statement above with "ALTER". To permanently remove/delete a JOB call:

```
DROP JOB [JobName]
```

Examples

```
CREATE JOB "RegularBackupAndPruning"
RUN AS "System"
FROM DATE '2015-07-13' TO DATE '2025-11-15'
WEEKLY ON MON, TUE, WED, THU, FRI
BETWEEN TIME '11:16:26' AND TIME '11:20:26.999'
BEGIN
  USE "SystemDB";
```

```
  CALL Maintenance_BackUpDatabase (true, true);
  CALL Maintenance_RenameBUFilesOLD();
  CALL Maintenance_DeleteOLDFiles();
  CALL Maintenance_EmptyTempFolder();
END
DESCRIPTION 'Daily job to maintain basic systems'
VERSION 1.00
```

Note the use of the specialized SQL keywords "CALL" and "USE" in the above example. **USE** allows the Developer to set the focus of the Job onto a particular database, **CALL** allows the Developer to name a specific **stored procedure**, and pass in parameters to it.