

oracle dbms\_jobs and dbms\_scheduler

参考：

[https://docs.oracle.com/cd/B19306\\_01/server.102/b14231/jobtosched.htm](https://docs.oracle.com/cd/B19306_01/server.102/b14231/jobtosched.htm)

```
select job,SCHEMA_USER from dba_jobs where SCHEMA_USER not in ('SYS');
```

dbms\_jobs :

begin

```
sys.dbms_job.submit(job => :job,  
                    what => '');
```

```
commit;
```

end;

/

jobs :

begin

```
sys.dbms_scheduler.create_job(job_name      => '',
                               job_type      => '',
                               job_action    => '',
                               start_date    => to_date(null),
                               repeat_interval => '',
                               end_date      => to_date(null),
                               job_class     => '',
                               enabled       => true,
                               auto_drop     => false,
                               comments      => '' );
```

end;

/

job\_classes :

begin

[illegible]

end;

/

dbms\_schedulers :

schedulers :

begin

[illegible]

```

                                comments      => ''');

end;

/

windows :
begin
    sys.dbms_scheduler.create_window(window_name      => '',
                                     resource_plan    => '',
                                     start_date       => to_date(null),
                                     repeat_interval  => '',
                                     end_date         => to_date(null),
                                     duration         => '',
                                     window_priority => 'LOW',
                                     comments         => ''');

end;

/

window_groups :
begin
    sys.dbms_scheduler.create_window_group(group_name => '', window_list => '', comments => '');
end;

/

programs :
begin
    sys.dbms_scheduler.create_program(program_name      => '',
                                     program_type       => '',
                                     program_action     => '',
                                     number_of_arguments => 0,
                                     enabled            => true,
                                     comments           => ''');

end;

/

chains :
begin
    sys.dbms_scheduler.create_chain(chain_name          => '',
                                   rule_set_name        => '',
                                   evaluation_interval  => '',
                                   comments             => ''');

    sys.dbms_scheduler.enable(name => '');
end;

/

```

SQL> desc dbms\_scheduler

Element	Type
LOGGING_OFF	CONSTANT
LOGGING_RUNS	CONSTANT
LOGGING_FAILED_RUNS	CONSTANT
LOGGING_FULL	CONSTANT
DEFAULT_NOTIFICATION_SUBJECT	CONSTANT
DEFAULT_NOTIFICATION_BODY	CONSTANT
JOB_STARTED	CONSTANT
JOB_SUCCEEDED	CONSTANT
JOB_FAILED	CONSTANT
JOB_BROKEN	CONSTANT

JOB_COMPLETED	CONSTANT
JOB_STOPPED	CONSTANT
JOB_SCH_LIM_REACHED	CONSTANT
JOB_DISABLED	CONSTANT
JOB_CHAIN_STALLED	CONSTANT
JOB_ALL_EVENTS	CONSTANT
JOB_OVER_MAX_DUR	CONSTANT
JOB_RUN_COMPLETED	CONSTANT
CREATE_PROGRAM	PROCEDURE
DROP_PROGRAM	PROCEDURE
DEFINE_PROGRAM_ARGUMENT	PROCEDURE
DEFINE_ANYDATA_ARGUMENT	PROCEDURE
DEFINE_METADATA_ARGUMENT	PROCEDURE
DROP_PROGRAM_ARGUMENT	PROCEDURE
CREATE_JOB	PROCEDURE
RUN_JOB	PROCEDURE
STOP_JOB	PROCEDURE
COPY_JOB	PROCEDURE
DROP_JOB	PROCEDURE
SET_JOB_ARGUMENT_VALUE	PROCEDURE
SET_JOB_ANYDATA_VALUE	PROCEDURE
RESET_JOB_ARGUMENT_VALUE	PROCEDURE
CREATE_GROUP	PROCEDURE
DROP_GROUP	PROCEDURE
ADD_GROUP_MEMBER	PROCEDURE
REMOVE_GROUP_MEMBER	PROCEDURE
CREATE_DATABASE_DESTINATION	PROCEDURE
DROP_DATABASE_DESTINATION	PROCEDURE
DROP_AGENT_DESTINATION	PROCEDURE
CREATE_JOB_CLASS	PROCEDURE
DROP_JOB_CLASS	PROCEDURE
CREATE_WINDOW	PROCEDURE
DROP_WINDOW	PROCEDURE
OPEN_WINDOW	PROCEDURE
CLOSE_WINDOW	PROCEDURE
CREATE_WINDOW_GROUP	PROCEDURE
ADD_WINDOW_GROUP_MEMBER	PROCEDURE
REMOVE_WINDOW_GROUP_MEMBER	PROCEDURE
DROP_WINDOW_GROUP	PROCEDURE
STIME	FUNCTION
GET_AGENT_VERSION	FUNCTION
GET_SYS_TIME_ZONE_NAME	FUNCTION
CREATE_SCHEDULE	PROCEDURE
DISABLE1_CALENDAR_CHECK	PROCEDURE
CREATE_EVENT_SCHEDULE	PROCEDURE
DROP_SCHEDULE	PROCEDURE
CREATE_CHAIN	PROCEDURE
DEFINE_CHAIN_RULE	PROCEDURE
DEFINE_CHAIN_STEP	PROCEDURE
DEFINE_CHAIN_EVENT_STEP	PROCEDURE
DROP_CHAIN_RULE	PROCEDURE
DROP_CHAIN_STEP	PROCEDURE
ALTER_CHAIN	PROCEDURE
DROP_CHAIN	PROCEDURE
ANALYZE_CHAIN	PROCEDURE
ALTER_RUNNING_CHAIN	PROCEDURE
EVALUATE_RUNNING_CHAIN	PROCEDURE
RUN_CHAIN	PROCEDURE

CREATE_CREDENTIAL	PROCEDURE
DROP_CREDENTIAL	PROCEDURE
PUT_FILE	PROCEDURE
GET_FILE	PROCEDURE
CREATE_FILE_WATCHER	PROCEDURE
DROP_FILE_WATCHER	PROCEDURE
ADD_JOB_EMAIL_NOTIFICATION	PROCEDURE
REMOVE_JOB_EMAIL_NOTIFICATION	PROCEDURE
DISABLE	PROCEDURE
ENABLE	PROCEDURE
SET_ATTRIBUTE	PROCEDURE
SET_ATTRIBUTE_NULL	PROCEDURE
GET_ATTRIBUTE	PROCEDURE
SET_SCHEDULER_ATTRIBUTE	PROCEDURE
GET_SCHEDULER_ATTRIBUTE	PROCEDURE
ADD_EVENT_QUEUE_SUBSCRIBER	PROCEDURE
REMOVE_EVENT_QUEUE_SUBSCRIBER	PROCEDURE
PURGE_LOG	PROCEDURE
GENERATE_JOB_NAME	FUNCTION
CHECK_SYS_PRIVS	FUNCTION
GET_VARCHAR2_VALUE	FUNCTION
AUTO_PURGE	PROCEDURE
GET_DEFAULT_VALUE	FUNCTION
GET_CHAIN_RULE_ACTION	FUNCTION
GET_CHAIN_RULE_CONDITION	FUNCTION
RESOLVE_NAME	FUNCTION
SUBMIT_REMOTE_EXTERNAL_JOB	PROCEDURE
BYLIST	TYPE
YEARLY	CONSTANT
MONTHLY	CONSTANT
WEEKLY	CONSTANT
DAILY	CONSTANT
HOURLY	CONSTANT
MINUTELY	CONSTANT
SECONDLY	CONSTANT
MONDAY	CONSTANT
TUESDAY	CONSTANT
WEDNESDAY	CONSTANT
THURSDAY	CONSTANT
FRIDAY	CONSTANT
SATURDAY	CONSTANT
SUNDAY	CONSTANT
CREATE_CALENDAR_STRING	PROCEDURE
RESOLVE_CALENDAR_STRING	PROCEDURE
EVALUATE_CALENDAR_STRING	PROCEDURE
SET_AGENT_REGISTRATION_PASS	PROCEDURE
GET_JOB_STEP_CF	FUNCTION
GENERATE_EVENT_LIST	FUNCTION
CREATE_JOBS	PROCEDURE
SET_JOB_ATTRIBUTES	PROCEDURE
SHOW_ERRORS	PROCEDURE
END_DETACHED_JOB_RUN	PROCEDURE
FILE_WATCH_FILTER	FUNCTION

SQL>

SQL> desc dbms\_job

Element	Type
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ANY_INSTANCE	CONSTANT
ISUBMIT	PROCEDURE
SUBMIT	PROCEDURE
REMOVE	PROCEDURE
CHANGE	PROCEDURE
WHAT	PROCEDURE
NEXT_DATE	PROCEDURE
INSTANCE	PROCEDURE
INTERVAL	PROCEDURE
BROKEN	PROCEDURE
RUN	PROCEDURE
USER_EXPORT	PROCEDURE
BACKGROUND_PROCESS	FUNCTION
IS_JOBQ	FUNCTION

SQL>

可以看出 dbms\_scheduler 确实比 dbms\_job 增强了许多