



# Quartz Scheduler

**Open source job scheduling library that can be integrated within virtually any Java application. Quartz is freely usable, licensed under the Apache 2.0 license.**



<http://www.quartz-scheduler.org/>

- Docs/Documentation
- Select latest stable release from left panel
- On right hand panel select cookbook from available documentation types.

Spring boot has implementation of quartz scheduler in a way which is very simple to incorporate into your project using quartz starter.

**This is the first step to start with (have quartz starter).**

```
<dependency>  
  <groupId>org.springframework.boot</groupId>  
  <artifactId>spring-boot-starter-quartz</artifactId>  
</dependency>
```



In application.properties these are the changes that you have to do for quartz

```
## Whether to automatically start the scheduler after initialization.  
spring.quartz.auto-startup=false  
## Quartz job store type.  
spring.quartz.job-store-type=jdbc  
## spring.quartz.properties.* = Additional Quartz Scheduler properties  
spring.quartz.properties.org.quartz.threadPool.threadCount=5
```

Quartz specific properties

<http://www.quartz-scheduler.org/>

- Docs/Documentation
- Select latest stable release from left panel
- On right hand panel select Configuration from available documentation types.

If you are using H2 database and DDL to create schema at runtime then spring will create schema for quartz at runtime.

If you are using DB like MySQL, Oracle etc then either you can create quartz schema by yourself into the DB, or point schema sql file from application.properties of spring Boot.

```
spring.quartz.jdbc.schema=local_path/quartzSchema.sql
```



You can find DB specific quartz schema at below location.

### **Oracle**

[https://github.com/quartznet/quartznet/blob/main/database/tables/tables\\_oracle.sql](https://github.com/quartznet/quartznet/blob/main/database/tables/tables_oracle.sql)

### **MySQL**

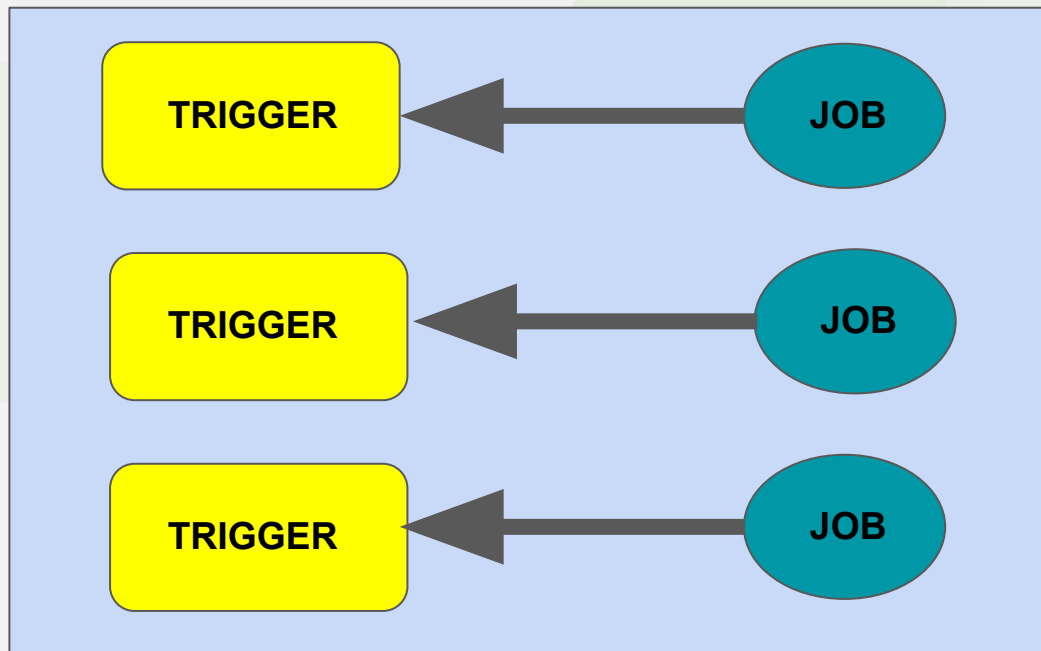
[https://github.com/quartznet/quartznet/blob/main/database/tables/tables\\_mysql\\_innodb.sql](https://github.com/quartznet/quartznet/blob/main/database/tables/tables_mysql_innodb.sql)

### **Other DB**

<https://github.com/quartznet/quartznet/blob/main/database/tables>



## SCHEDULER



```
JobDetail jobDetail =  
JobBuilder.newJob(MyJob.class)  
.withIdentity("unique_name_within_group","group_name")  
.withDescription("any thing which makes sense")  
.storeDurably(false).  
setJobData(dataMap)  
.build();
```

```
Trigger trigger =  
TriggerBuilder.newTrigger()  
.withIdentity("unique_name_within_group","group_name")  
.withDescription("any thing which makes sense")  
.startAt(Date.from(zonedDateTime.toInstant()))  
.withSchedule(SimpleScheduleBuilder.simpleSchedule().withRepeatCount(counter).withIntervalInMinutes(i  
ntervalMin))  
.build();
```

```
ZonedDateTime zonedDateTime =  
ZonedDateTime.of(LocalDateTime instnace, ZoneId.of("Asia/Kolkata"));
```

