Batch Processing

1. Bulk Processing
2. Banking: Bulk money transfer at night.
3. E-Commerce/Retail: Uploading items in bulk at night.

Spring Batch

1. It is a lightweight batch framework based on spring.
2. It is used for high volume batch processing.
3. Various I/O options like JSON, XML, SQL databases.
4. Easy to manage with start/stop options.
5. Retry and skip mechanism.

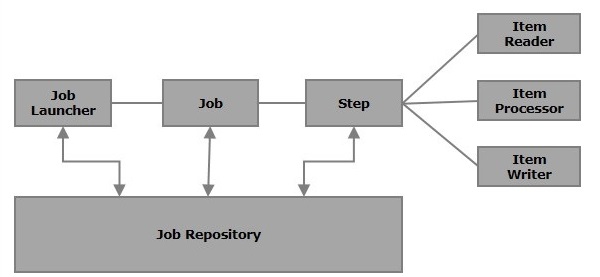
What is job and step?

* Job can be online transaction and step is like multiple steps in job like deduct money from the sender then add money to receiver.

Step types in Spring Batch

1. **Tasklet Step**: Online bulk transaction at night.
2. **Chunk-Oriented Step**: Processing chunk of CSV at a time. Like 5 rows at a time. The flow here is Item Reader -> Item Processor -> Item Writter

**Spring Batch Architecture**



We must add Spring Batch dependency in pom.xml

We must add @EnableBatchProcessing in main class

We must have atleast one sql database connection otherwise spring batch application will not run