



Batch Updates

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1. Till now all the JDBC queries or SQL statements we have executed have communicated to the database one query at a time.
2. This means that for every DML query or transaction, we sent a separate request to the DB.
3. So if there are **n** transactions then we will make **n** request to the DB.
4. This will have very poor performance specially when the network traffic is very slow.
5. Another problem with this approach is that database data might remain inconsistent, specially incase of inter-related transactions.
6. The solution to both the above problem is **batch processing** or **batch updates**.

What is Batch Update?

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1. Batch update is the facility given by JDBC where we can execute a group of updates i.e. insert, update and delete query as a single batch.
2. This means that rather than sending one query at a time we can send whole batch at once.
3. This will definitely improved performance our app since no. of network call will be less as well as the DB will remain consistent.

Steps required for batch update

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1. Create Statement object.
2. Set auto-commit to false by calling the method `setAutoCommit()` of Connection obj.
3. Call the method `addBatch()` of Statement obj passing it one SQL query at a time.
4. After all the queries have been added to the batch call the method `executeBatch()` of Statement obj.
5. Finally either commit all the changes by calling the method **`commit()`** of Connection obj or rollback the changes by calling the method **`rollback()`** of Connection obj.