

Bath Processing in JDBC

KISSan

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- Batch processing in JDBC allows executing multiple SQL statements in a batch, instead of executing each statement one by one.
- This can significantly reduce the communication overhead between the Java application and the database, resulting in improved performance, especially when dealing with a large number of operations.
- The main purpose of batch processing is to perform bulk data modifications efficiently.
- Data-modifying SQL statements like INSERT, UPDATE, and DELETE can be used in JDBC batch processing.
- SELECT queries cannot be batched because they return a ResultSet, which is incompatible with the batch update mechanism

Important Methods in Batch Processing

Method Name	Description
addBatch()	This method is used to add multiple SQL queries to the batch, which can then be executed in one go using executeBatch().
executeBatch()	This method sends all the SQL commands added to the batch to the database for execution. It returns an array of update counts representing the number of rows affected by each query
clearBatch()	This method is used to clear the current batch of commands. After calling this method, all commands added to the batch will be removed and the batch will be empty.

Procedures Vs Batch Processing

Procedures	Batch Processing
A procedure is a precompiled collection of SQL statements that are stored and executed in the database.	Batch processing refers to executing a group of SQL statements (like INSERT, UPDATE, DELETE) together in a batch through JDBC.
Stored procedures can execute all types of queries	Batch processing can executes only NON-selection group SQL queries.