

# 📦 ADAPT-SQL Batch Processing

Process multiple queries with automatic checkpoints and comprehensive statistics

## 🎯 Batch Configuration

Start Index	End Index	Total Queries	Checkpoint Every
0	999	1000	50

Enabled:

Validation Retry |  Execution |  Evaluation |  Full Retry (max 5, score ≥0.8)

🚀 Run Batch Processing

## 📊 System Performance Overview

### 🎯 Key Performance Indicators

Total Queries	Valid SQL	Execution	EX = 1.0	EM = 1.0	Avg Score
1000	100.0% ↑ 1000/1000	99.3% ↑ 993/1000	93.7% ↑ 937/1000	35.6% ↑ 356/1000	0.821

## 📈 Complexity Distribution & Performance

EASY	NON_NESTED	NESTED
Count: 283 (28.3%)	Count: 596 (59.6%)	Count: 121 (12.1%)
Valid: 283/283 (100.0%)	Valid: 596/596 (100.0%)	Valid: 121/121 (100.0%)
EX=1.0: 280 (98.9%)	EX=1.0: 554 (93.0%)	EX=1.0: 103 (85.1%)
Avg Score: 0.879	Avg Score: 0.819	Avg Score: 0.694

## ⚡ Execution Performance

Executed	Success Rate	Avg Time	Failed
1000	99.3% ↑ 993/1000	0.011s	7 ↓ -7

### Common Execution Errors:

- Operational error: 7 occurrences

## 🎯 Spider Benchmark Results

🌟 Execution Accuracy (EX)

Primary metric - Results match exactly

🏆 Exact-Set-Match (EM)

Secondary metric - SQL structure matches

🏆 Composite Score

Weighted: 80% EX + 20% EM

EX = 1.0

**93.7%**

↑ 937/1000

EM = 1.0

**35.6%**

↑ 356/1000

Average

**0.821**

✗ Failed: 63 queries

✗ Failed: 644 queries

✓ Perfect ( $\geq 0.95$ ): 351

● Good (0.7-0.95): 586

● Fair (0.5-0.7): 0

● Poor (&lt;0.5): 63

## ⌚ Full Pipeline Retry Performance

Queries with Retry

**1000**

Avg Attempts

**1.44**

Retry Success

**93.7%**

↑ 937/1000

Max Retries

**63**

Retry Effectiveness:

Improved 937 out of 1000 queries that needed retry

## 🔍 Error Analysis

✓ No validation errors found!

## 🎲 Generation Strategy Performance

Intermediate Representation

Queries: 596

Valid: 596/596 (100.0%)

EX=1.0: 554/596 (93.0%)

Avg Score: 0.819

Simple Few Shot

Queries: 283

Valid: 283/283 (100.0%)

EX=1.0: 280/283 (98.9%)

Avg Score: 0.879

Decomposed Generation

Queries: 121

Valid: 121/121 (100.0%)

EX=1.0: 103/121 (85.1%)

Avg Score: 0.694