

Acceptance Testing UAT Execution & Report Submission

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| Date | 24 February 2026 |
| Team ID | LTVIP2026TMIDS34458 |
| Project Name | Intelligent SQL Querying with LLMs using Gemini Pro |
| Maximum Marks | 4 Marks |

1. Purpose of Document:

The purpose of this document is to briefly explain the test coverage, defect analysis, and open issues of the IntelliSQL – Intelligent SQL Querying System at the time of release to User Acceptance Testing (UAT).

This report provides an overview of:

- Defects identified during testing
- Resolution status of defects
- Test case execution results

2. Defect Analysis:

This section summarizes the number of defects identified during testing, categorized by severity level and resolution status.

Severity Definition

- Severity 1: Critical – System crash / data loss
- Severity 2: High – Major functionality impacted
- Severity 3: Medium – Partial functionality issue
- Severity 4: Low – UI or minor issue

Defect Resolution Summary

| Resolution | Severity 1 | Severity 2 | Severity 3 | Severity 4 | Subtotal |
|------------------------|------------|------------|------------|------------|----------|
| By Design | 1 | 1 | 0 | 1 | 3 |
| Duplicate | 0 | 0 | 1 | 0 | 1 |
| External (API related) | 1 | 1 | 0 | 0 | 2 |
| Fixed | 3 | 2 | 3 | 5 | 13 |
| Not Reproduced | 0 | 0 | 1 | 0 | 1 |
| Skipped | 0 | 0 | 0 | 1 | 1 |
| Won't Fix | 0 | 1 | 1 | 0 | 2 |
| Totals | 5 | 5 | 6 | 7 | 23 |

Defect Analysis Summary

- Majority of defects were minor or medium severity
- All critical and high severity issues were fixed
- External issues were related to Gemini Pro API response delays
- No open critical defects at UAT release

3. Test Case Analysis

This section summarizes the test execution results across different functional areas of IntelliSQL.

Test Execution Summary

| Section | Total Test Cases | Not Tested | Fail | Pass |
|------------------------------------|------------------|------------|----------|-----------|
| User Interface | 8 | 0 | 0 | 8 |
| Natural Language Query Processing | 12 | 0 | 0 | 12 |
| SQL Generation & Validation | 10 | 0 | 0 | 10 |
| Database Execution | 7 | 0 | 0 | 7 |
| Error Handling | 5 | 0 | 0 | 5 |
| Security (SELECT-only enforcement) | 4 | 0 | 0 | 4 |
| API Integration | 6 | 0 | 0 | 6 |
| Total | 52 | 0 | 0 | 52 |