SQL Test Scenarios

1. Validate record creation

• Insert new record and verify it appears in the table.
• Validate auto-increment ID.
• Verify default values.

2. Update functionality

• Update an existing row and verify values changed correctly.
• Ensure timestamps or audit fields update when applicable.

3. Delete operations

• Verify record is removed.
• Confirm related child records handled (cascade/restrict).

4. JOIN validations

• INNER JOIN returns only matching rows.
• LEFT JOIN includes unmatched left records.
• Verify correct row counts.

5. Data integrity checks

• Validate NOT NULL constraints.
• Check UNIQUE constraints.
• Verify foreign key relationships.

6. Negative scenarios

• Insert invalid data types.
• Insert too-long strings.
• Insert NULL into required fields.