| **Test Case ID** | **Description** | **Steps** | **Expected Output** | **Actual Output** | **Status** |
| --- | --- | --- | --- | --- | --- |
| TC001 | Validate Flow | 1. Trigger the data processing workflow. 2. Monitor the workflow execution. | Workflow completes without errors. | [Actual Workflow Logs] | PASS/FAIL |
| TC002 | Data Validation | 1. Check if all necessary data sources are available. 2. Verify data integrity. | Data is available and matches expected values. | [Data Validation Results] | PASS/FAIL |
| TC003 | Orchestration Test | 1. Validate the orchestration sequence of jobs. | Jobs run in the correct sequence without failures. | [Orchestration Log] | PASS/FAIL |
| TC004 | Databricks Workflow | 1. Execute Databricks notebooks for ETL. | Notebooks execute without errors. | [Databricks Execution Results] | PASS/FAIL |
| TC005 | Row Count Validation | 1. Verify the expected row count in each analytical layer table. | Row counts match the expected values. | [SQL Query Results] | PASS/FAIL |
| TC006 | Duplicate Check | 1. Identify and validate duplicate records in the data. | No duplicate records found. | [Duplicate Check Results] | PASS/FAIL |
| TC007 | Audit Column Validation | 1. Check the accuracy of audit columns (e.g., created\_at, updated\_at). | Audit columns reflect the correct timestamps. | [Audit Column Values] | PASS/FAIL |
| TC008 | File Validation | 1. Confirm the presence and structure of processed files. | Files are present and adhere to the expected structure. | [File System Inspection] | PASS/FAIL |
| TC009 | Business Scenario Validation | 1. Execute scenarios based on business rules. | Results align with expected business rules. | [Business Rule Validation Output] | PASS/FAIL |
| TC010 | SCD Type 2 for Analytical Layer | 1. Execute SCD Type 2 process. | Historical changes are appropriately captured in the analytical layer. | [SCD Type 2 Results] | PASS/FAIL |
| TC011 | DDL for System | 1. Validate the correctness of the daily DDL executed for system maintenance. | DDL scripts execute without errors. | [DDL Execution Log] | PASS/FAIL |
| TC012 | API Feed from DVSA | 1. Test the API feed from DVSA for daily data updates. | Data is successfully retrieved from DVSA API. | [API Feed Log] | PASS/FAIL |
| TC013 | Landing Path Processing | 1. Confirm files land in the designated landing path. | Files are present in the landing path. | [File System Inspection] | PASS/FAIL |
| TC014 | Bronze Layer Event Hub | 1. Verify data ingestion into the Bronze Layer Event Hub. | Data is ingested into the event hub without errors. | [Event Hub Logs] | PASS/FAIL |
| TC015 | Analytical Layer Tables | 1. Validate the existence and structure of Mot Detail, Mot Comment, and Mot Vehicle tables. | Tables exist with the expected structure. | [SQL Query Results] | PASS/FAIL |
| TC016 | Enrichment Store | 1. Confirm data is stored correctly in the Enrichment Store. | Data is stored without errors. | [Enrichment Store Validation] | PASS/FAIL |
| TC017 | Extract Processed as Text File | 1. Verify the generation of a text file in the specified path. | Text file is created and follows the expected format. | [File System Inspection] | PASS/FAIL |