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| Data warehouse project  Test Result Report |
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| Background | Information needed to assess the effectiveness of the testing  process and the current state of the project. |
| **Purpose** | To provide the key information about the testing process and  testing results. |
| **Scope** | Testing process description, test results, metrics, timetable,  recommendations. |
| **Audience** | Management staff, QA team, Project team. |

# Summary

During April 1-22 three layers (LND\_LAYER, DWH\_LAYER, DM\_MAIN\_DASHBOARD) of Data Warehouse were released. Data Warehouse has successfully passed 100% of the smoke test, and 57% of the critical path test. There are 6 of Major severity, 8 of Medium severity, 2 of Low severity bugs.

At the next test iteration (starting May 9) all fixed defects (during May 2-6) will be retested.

# Test team

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| --- | --- | --- |
| Name | Role | Responsibility |
| Tatsiana Artsimenya | Tester | Test documentation creation, test-  cases execution, participation in  code-review |

# Testing process description

Testing was performed on MS Windows 10 Corporate x64 under Oracle SQL Developer (Version 21.4.2.018, Build 018.1706). The smoke test and critical path test were performed manually. Functionality was tested according to test cases.

# Timetable

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Activity | Duration, hours |
| Tatsiana Artsimenya | 22.04.2022 | Data mapping table creation | 8 |
| Tatsiana Artsimenya | 25.04.2022 | Test cases creation | 8 |
| Tatsiana Artsimenya | 26.04.2022 | Test execution | 5 |
| Tatsiana Artsimenya | 26.04.2022 | Defect reporting | 3 |
| Tatsiana Artsimenya | 27.04.2022 | Test strategy creation | 8 |
| Tatsiana Artsimenya | 28.04.2022 | Test result reporting | 8 |

# New defects statistics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | Severity | | | |
| Status | Quantity | Low | Medium | Major | Critical |
| Submitted | 16 | 2 | 8 | 6 | 0 |
| Fixed | 0 | 0 | 0 | 0 | 0 |
| Verified | 0 | 0 | 0 | 0 | 0 |
| Reopened | 0 | 0 | 0 | 0 | 0 |
| Declined | 0 | 0 | 0 | 0 | 0 |

# New defects list

|  |  |  |
| --- | --- | --- |
| ID | Severity | Summary |
| 1 | Major | 176 rows were not loaded from CLIENT\_DB.S1\_SALES to LND\_LAYER.S1\_SALES |
| 2 | Major | 181 additional rows are in DWH\_LAYER.DWH\_SALES |
| 3 | Major | Total cost in DM\_LAYER.DM\_MAIN\_DASHBOARD differs from total cost on source layer |
| 4 | Major | 11 additional rows are in table LND\_LAYER.S1\_CLIENTS |
| 5 | Major | 5 rows were not loaded from CLIENT\_DB\_2.S2\_CLIENT\_SALES to LND\_LAYER.S2\_CLIENT\_SALES |
| 6 | Major | 5 additional rows are in table LND\_LAYER.S2\_LOCATIONS |
| 7 | Medium | VALID\_TO date in DWH\_LAYER.DWH\_CLIENTS differs from required ‘2100-01-01’ |
| 8 | Medium | IS\_VALID should be N if VALID\_TO less that 20 Jan of 2021. |
| 9 | Medium | Data type in column IS\_VALID in Table DWH\_LAYER. DWH\_CLIENTS differs from required |
| 10 | Medium | Data length in all columns in Table LND\_LAYER. S1\_ PRODUCTS differs from required |
| 11 | Medium | Data length in all columns in Table LND\_LAYER. S2\_ LOCATIONS differs from required |
| 12 | Medium | Data length in column CHANNEL\_NAME in Table DWH\_LAYER.DWH\_CHANNELS differs from required |
| 13 | Medium | Data length in column LOCATION\_NAME in Table DWH\_LAYER. DWH\_LOCATIONS differs from required |
| 14 | Medium | Data precision for column TOTAL\_COST in table DM\_LAYER. DM\_MAIN\_DASHBOARD differs from required |
| 15 | Low | Name and nullable value of column CHANNELLOCATION differs from required (table LND\_LAYER. S1\_CHANNELS) |
| 16 | Low | Column name CLIENT\_IAST\_NAME in Table DM\_LAYER. DM\_MAIN\_DASHBOARD differs from required |

# Recommendations

* DWH built was recommended for bug-fixing and retest.
* In tested DWH bugs are represented at different layers drom SRC to DM\_MAIN\_DASHBOARD. It's better to start testing earlier, not after DWH will be built completely. It's better to find and fix bugs as fast as it is possible.
* Increase the number of testers to deploy Data Warehouse in production in required time.
* Project has only 1 tester so it can be a problem if tester will ill or have a vacation. Mitigation of this moment is to engage Data Engineering Lab resources to increase the number of testers.

# Attachments