PDS Application Development Report

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| **Roll Number** | IMT2019025 |
| **Name** | D V N P S M Manohar Suggula |
| **Application Domain Name (Banking, Transport, etc.)** | Hotel Room Reservation |
| **Date** | 17/10/2021 |

|  |  |  |
| --- | --- | --- |
| **Table Name:** | | |
| **S. No** | **Attribute Name** | **Attribute Type** |
| 1. | reservation\_id | int |
| 2. | room\_no | int |
| 3. | customer\_name | char[30] |
| 4. | phone | char[15] |

**Testing Report**

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| --- | --- | --- | --- | --- |
| **Test-Case-ID** | **Test Case Description** | **Expected**  **Result** | **Actual**  **Result** | **Test Result (PASS/FAIL)** |
| **TC-01** | Inserting new record | SUCCESS | SUCCESS | PASS |
| **TC-02** | Inserting duplicate record | FAILURE | FAILURE | PASS |
| **TC-03** | Modify existing record | SUCCESS | SUCCESS | PASS |
| **TC-04** | Modify non-existing record | FAILURE | FAILURE | PASS |
| **TC-05** | Modify first record | SUCCESS | SUCCESS | PASS |
| **TC-06** | Modify last record | SUCCESS | SUCCESS | PASS |
| **TC-07** | Delete existing record | SUCCESS | SUCCESS | PASS |
| **TC-08** | Delete non-existing record | FAILURE | FAILURE | PASS |
| **TC-09** | Delete first record | SUCCESS | SUCCESS | PASS |
| **TC-10** | Delete last record | SUCCESS | SUCCESS | PASS |
| **TC-11** | 1. Open an **empty** database 2. Insert ONE record 3. Delete the only record | SUCCESS | SUCCESS | PASS |
| **TC-12** | Retrieve existing record based on NDX field | SUCCESS | SUCCESS | PASS |
| **TC-13** | Retrieve non-existing record based on NDX field | FAILURE | FAILURE | PASS |
| **TC-14** | Retrieve existing record based on NON-NDX field | SUCCESS | SUCCESS | PASS |
| **TC-15** | Retrieve non-existing record based on NON-NDX field | FAILURE | FAILURE | PASS |
| **TC-16** | Exit and restart the application  Retrieve existing record based on NDX field | SUCCESS | SUCCESS | PASS |
| **TC-17** | Exit and restart the application  Retrieve non-existing record based on NDX field | FAILURE | FAILURE | PASS |
| **TC-18** | Exit and restart the application  Retrieve existing record based on NON-NDX field | SUCCESS | SUCCESS | PASS |
| **TC-19** | Exit and restart the application  Retrieve non-existing record based on NON-NDX field | FAILURE | FAILURE | PASS |

**Compiling:**

$ make all

$ ./run